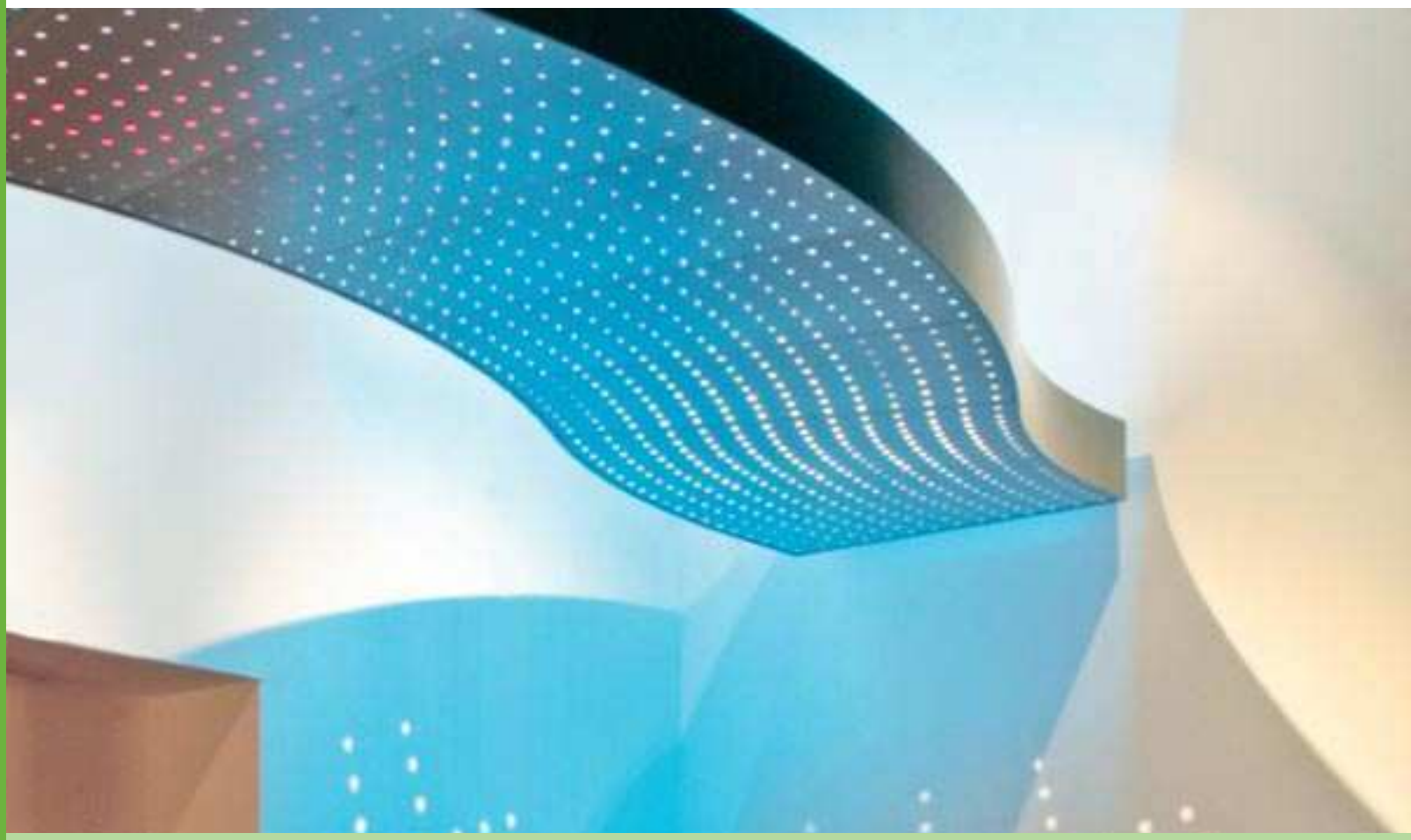
USG



Ceiling Systems

2008/2009

Specialty Ceiling Systems, Acoustical Ceiling Panels, Suspension Systems, and Integrated Ceiling Systems

Realize Your Vision

USG is a leading manufacturer of building materials for the construction and remodeling industries. From major commercial development and renovation to residential housing, our products turn vision into reality everywhere people live and work.

Custom CELEBRATION panels,
600mm x 1050mm, Flat White

Design with Confidence

With over a century of service to the building industry, USG understands the issues you manage every day and the opportunities you see in the big picture. To help all customers—from architects, designers and specifiers to builders, contractors and installers—achieve their goals, we design our high-performance products to bring creative concepts to life and assure quality for the long term.

Choose Trustworthy Products

As the recognized innovator in ceilings and manufacturer of an extensive line of acoustical panels, specialty systems, integrated ceiling systems and suspension systems for drywall, USG is a leading ceilings supplier in North America. Our ceilings products are known and trusted because of our exacting performance standards.

Build Sustainably

With a firm belief that health, safety and environmental well-being are compatible with economic prosperity, USG maintains a longstanding commitment with our employees, customers and communities to reduce environmental impact, use recycled materials whenever feasible and eliminate manufacturing waste.

We are a founding member of the U.S. Green Building Council (USGBC), a diverse coalition of principals in the building industry. Promoting environmentally responsible design and construction, the council developed the LEED® (Leadership in Energy and Environmental Design) program to establish a rating system that defines “green building.”

USG is committed not only to producing the highest-quality ceiling systems for creating inspired designs, but also to protecting and nurturing the environment we all share. Together, we can build a better world.

Contents

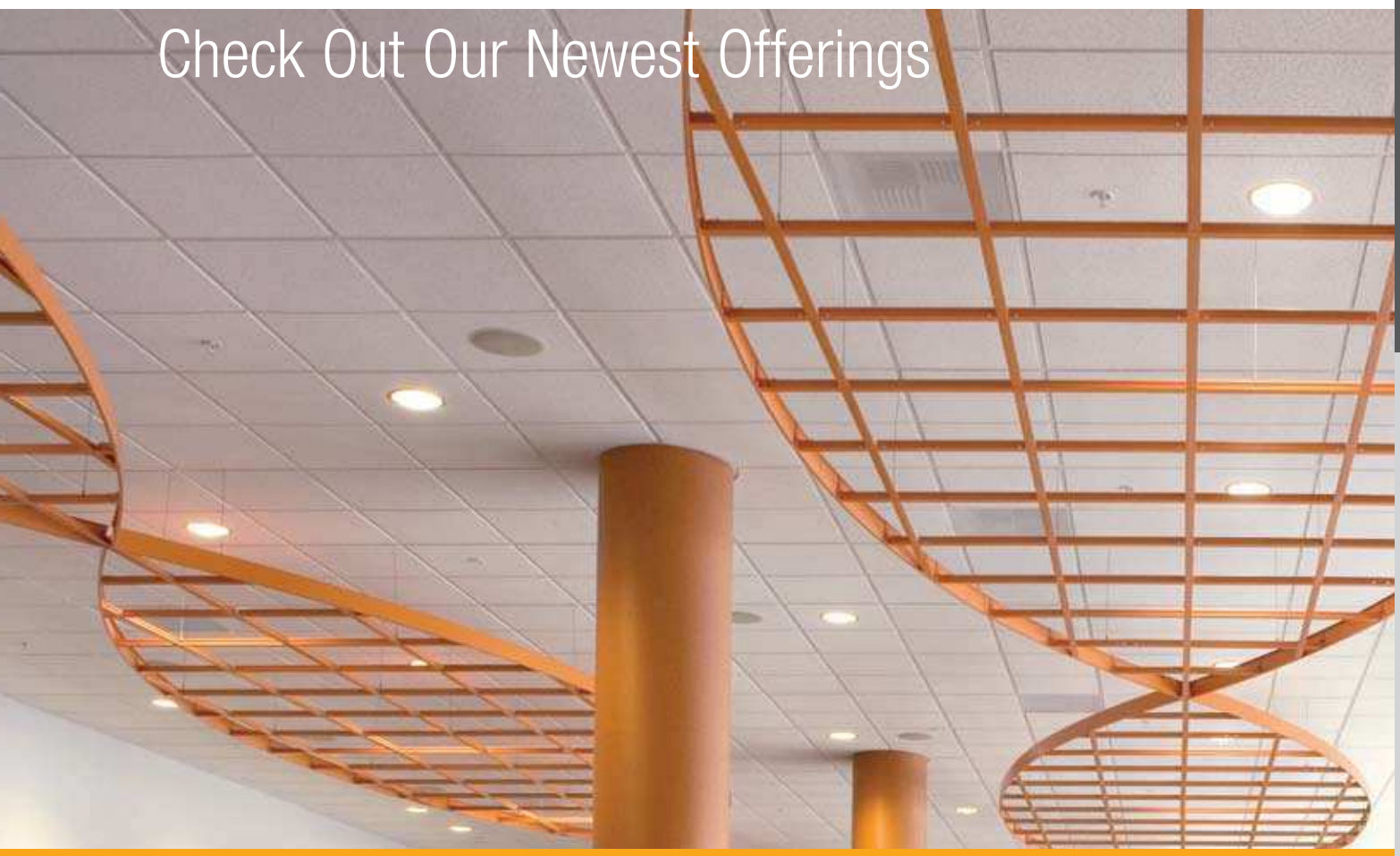
This handy desktop reference is an easy-to-use guide to the comprehensive selection of ceiling systems from USG. Inside you'll discover clear, practical information on critical factors of ceiling design to help make the selection process enlightening and engaging.

Here's where to find the information you need to specify a USG ceiling system that looks as great as it performs.

New From USG	**3–8**	We are pleased to introduce several exciting products, plus ceiling panels with certified zero- and low-emissions performance, and a robust web-based design resource.
Ceilings Overview	**9–12**	Imagine what you can achieve with our full range of products including high-quality acoustical ceilings, specialty ceiling systems that make a bold statement, and the precision USG drywall suspension system.
Design Considerations	**13–31**	Find out more about the basics of good ceiling design and how to satisfy even the most stringent requirements in critical areas such as aesthetics, sustainability, acoustical control, abuse resistance, humidity resistance and fire resistance.
Specialty Ceiling Systems	**32–101**	Product-line overview, selectors for metal finishes and perforations, and detailed information for each specialty system.
Acoustical Ceiling Panels	**102–199**	Selectors for texture, light reflectance, colors, substrates, acoustical performance, patterns, sustainability, installed cost, edge detail options, ceiling perimeters, and detailed information for each ceiling panel.
DONN® Brand Suspension Systems	**200–253**	Detailed information for each suspension system including the USG drywall suspension system, and information on all system accessories.
LOGIX™ Integrated Ceiling Systems	**254–277**	New from USG, a dynamic system that aligns lighting and utilities along narrow, orderly channels. LOGIX Basic creates channels that intersect tees. LOGIX Linear allows uninterrupted, continuous channels.
Support and Technical Information	**278–326**	Environmental statement, item number index, packaging information, guide specifications, sound test data, Lencore Acoustics sound masking, standard seismic applications, fire-rated assemblies, warranties and limitations, and product index.

The newest ceilings and systems from USG are made to provide you with more creative options and greater flexibility. From new twists on traditional acoustical ceilings to a new specialty product that takes customization to a higher level, USG ceilings offer even more ways to add a crowning touch to your designs.

Check Out Our Newest Offerings



USG Design Studio

Specify quickly. Specify correctly.

Introducing USG Design Studio, a new web-based platform that provides architects, designers and architectural specifiers with quick, efficient and accurate information on USG ceiling and wall products, from drawing files to a tool that assists with writing architectural specifications.

USG Design Studio is a free service that does not require registration to use. However, by registering you can receive updates on the latest content additions, enhancements, and upgrades.

To access this dynamic new service, visit usgdesignstudio.com.

– **Research ceiling options** based on performance requirements such as sustainability, light and sound properties, fire performance, aesthetics, even ceiling panel substrates.

– Select products and systems that meet your criteria, and USG Design Studio will **generate a specification.**

– USG Design Studio houses an extensive library with two- and three-dimensional details in Autodesk AutoCAD® format for downloading. This resource also offers **Autodesk Revit® Architecture** files with full-assembly libraries for those using **BIM software.**

Libretto™ Gridless Metal Ceiling System

This dynamic new system features individually fabricated aluminum panels that uniquely interconnect to form a continuous, uninterrupted plane—all based on your own design concept!

You determine the shape and style of your ceiling, and USG brings it to reality with custom-manufactured components that fit together with precision. Now you can take your custom design to the next level with perforations that follow the contours of your unique ceiling. Or, specify a custom graphic with a pattern you provide. Even the concealed suspension system is custom-fit, and a choice of three edge profiles provides flexibility to achieve the proper scale for your space.

For more information see pages 78–85.

Logix™ Integrated Ceiling Systems

Align services along continuous bands running the full length of an acoustical ceiling, parallel to the main suspension tees, creating a unifying element that extends throughout a space and brings greater order to your ceiling design. The field is fitted with fiberglass panels in a wide range of standard and large-module sizes. These high-performance panels feature high light reflectance and excellent sound control for open-plan areas. Channels may also be oriented perpendicular to the main tees, with sleek 6″ Halcyon™ *ClimaPlus*™ fiberglass lay-in panels or Panz® metal ceiling panels positioned adjacent to main tees.

Halcyon *ClimaPlus* Ceiling Panels

For more information see pages 248–271.

Wall-to-Wall Drywall Suspension System

Designed to create conventional flat drywall ceilings in corridors and similar spaces with spans of less than 14 ft., this framing solution is easier to work with than black iron and furring channels or drywall studs, and it helps to reduce labor costs. The system assembl es quickly and easily, framing narrower spaces efficiently and with a minimum of components. System accessories and integrated straight components offer easy transitions to vertical, horizontal, or curved surfaces.

USG Wall-to-Wall Drywall Suspension System/Sheetrock Brand Gypsum Panels

For more information see pages 236–237.

Compässo™ Slim Perimeter Trim

A cutting-edge alternative to traditional suspension trim, Compässo™ Slim perimeter trim dramatically highlights ceiling islands with a wide, low-profile frame. Made of extruded aluminum with durable Slim White finish, components are precision-engineered to fit DX®/DXL™, Centricitee™ DXT/DXLT and Fineline® DXF/DXFF suspension systems.

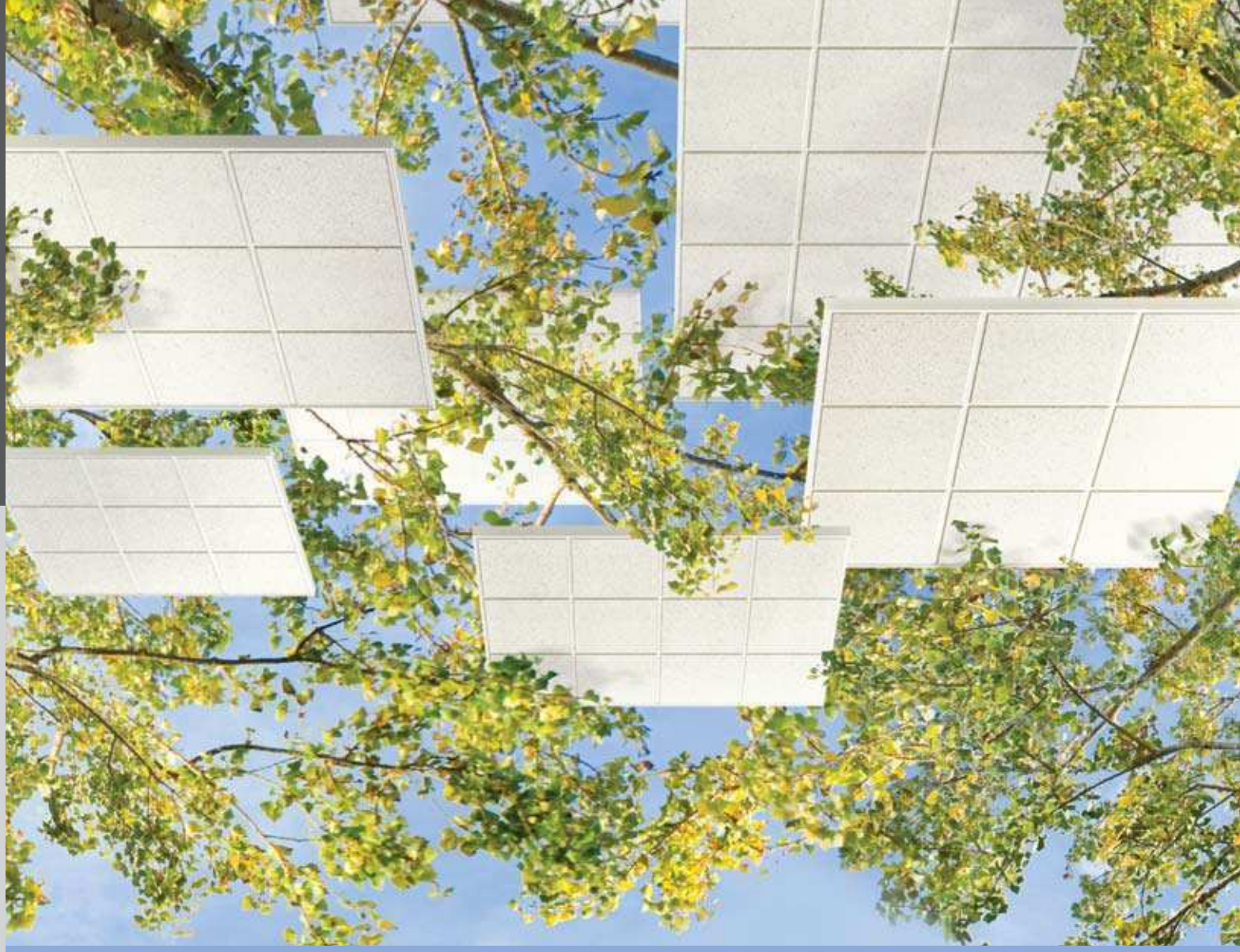
For more information see pages 68–69.

Wood Tones

Achieve the look without the weight, expense or susceptibility to climate changes associated with real wood. Wood Tone panels and coordinating painted suspension system are available with:
Celebration™ metal ceiling panels / Curvatura™ panels / Panz® metal ceiling panels / Compässo™ perimeter trim
Choose from three Wood Tones: cherry, maple and oak. Wood Tone panels may also be perforated for greater sound control and attractive visual texture.

Top: 1′x 5′ Panz. Center: 2′x 2′ Celebration. Bottom: 1′x 4′ Celebration.

For more information see pages 38–41.



Zero emissions. Zero worries.

Even if no formaldehyde is used to make a product, raw materials can still contain this dangerous substance or combine to create a chemical reaction that produces formaldehyde. The key is to specify products proven to have zero or low formaldehyde emissions. USG offers the widest selection of standard ceilings that meet the most stringent standard for product formaldehyde emissions, set by the Collaborative for High Performance Schools (CHPS) – all at no added cost.

Find out more at www.SustainableCeilings.com

For details see page 21.

Reach Higher with a USG Ceiling

From a simple white plane to a colorful, textural and multidimensional domain, a USG ceiling provides the crowning touch that connects and completes a space. Explore the many great styles, materials and systems we offer – as well as solutions for creating healthy and sustainable environments – to help you take your design to new heights.

30″ x 30″ Mars *ClimaPlus* Ceiling Panels/Donn Fineline DXF Suspension/System Compässo Suspension Trim

For more information see pages 160–161.

Specialty Ceiling Systems

Create a distinctive look, capture a mood and define spaces within spaces with innovative systems that are sure to be noticed.

TOPO 3-Dimensional System

Choose from a range of materials, textures and finishes to complement and punctuate your design.

Custom Curved Metal Panel Solution

Drywall Suspension System

System for Curved Ceilings

Create unique curved, domed, and conventional flat drywall ceilings with ease.

System for Flat Ceilings

Design Considerations

The optimal ceiling choice satisfies several critical requirements including aesthetics, acoustical performance, fire protection, sustainability and value. USG manufactures a wide variety of quality ceiling systems with strong capabilities in a range of performance categories.

Performance Categories			
	Aesthetics	Acoustics	Abuse Resistance

Take a closer look at the criteria to consider when specifying a ceiling system and the many USG products available to create a design that performs as well as it looks.

	Humidity Resistance	Fire Resistance	Sustainable Design

Aesthetic Criteria

Because it is one of the most visible architectural features in a space, the ceiling plays a critical role in the overall aesthetic of any project.

GEOMETRIX metal ceiling panels

PARALINE linear metal system

TOPO 3-dimensional system

Energy

Synthesize taut ceilings (walls, too!) with crisp lines, cadent planes and undulating surfaces.

Mood

Make a statement with pattern and shape, or lighten the tone with gentle rhythm.

CADRE Concepts ceiling coffers

CELEBRATION metal ceiling panels

BILLO 3-dimensional panels

As the leading supplier of ceilings, USG understands that this fundamental design element must be able to support diverse designs and functional objectives.

Eclipse *ClimaPlus*

Mars *ClimaPlus*

Frost *ClimaPlus*

Sophistication

Underscore design detail with a clean plane overhead.

Impression

Step back in time with the look of fine, old-world plaster, wood or streamlined deco glass.

Cadre Historical ceiling coffers

Quadra ceiling coffers

Transparencies luminous ceilings

Aesthetic Criteria

We manufacture systems in a range of styles, textures and materials, and we offer the industry's most innovative collection of specialty and accent ceilings to faithfully bring alive your most imaginative concepts.

CURVATURA 3-dimensional system

GRIDWARE suspension system

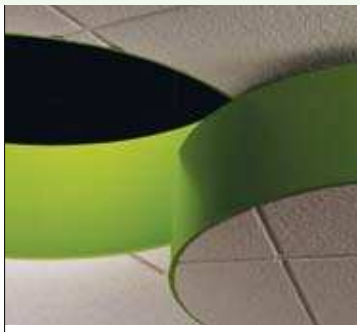
WIREWORKS open-cell ceiling panels

Definition

Give your design structure without obstruction.

Islands

Create "getaways" to add interest, instill intimacy or designate functional zones.



COMPÄSSO perimeter trim

C2 Paired COMPÄSSO channels

USG drywall suspension system

Sustainable Design

Sustainable design seeks to create structures that require fewer natural resources to build, maintain and adapt to future uses. Key strategies include choosing quality, lasting materials and creating flexible, multi-functional spaces.

Consumers have become increasingly aware of the need to conserve energy, manage raw materials, reduce waste and safeguard against pollutants. In response, many developers and owners now demand buildings that will help save energy, preserve the integrity of surrounding land and assure a clean, healthy indoor environment.

Sustainable Solutions

USG has long supported sustainable building by emphasizing innovation, from the ingredients and resources we use to the manufacturing processes we employ. Take a closer look at the advantages that let you choose USG ceiling products with confidence.

Recycled and Renewable Materials

Recycled and renewable raw materials reduce consumption of energy and resources without diminishing the long-term performance of our products. Many USG ceiling products contain:

Synthetic mineral wool

We convert nearly 150,000 tons of slag, a waste product of steel making, to mineral wool every year, eliminating the need to mine and process raw materials and reducing landfill waste.

Recycled paper

Many of our ceiling panels contain paper recovered from both pre-consumer (cuttings from corrugated box manufacturing) and post-consumer (newspapers) use.

Corn- and wheat-starch binders

These renewable agricultural materials are an environmentally sound alternative to traditional binders derived from petroleum-based chemicals.

Recycled metal

Several of our metal specialty ceilings and ceiling and drywall suspension systems are made of steel and aluminum that includes recycled content. Aluminum offers additional benefits in that it can be fully re-purposed by re-melting and salvaging the metal.

For more information see the Sustainability selector on pages 120–124.

Sustainable Design

Responsible Manufacturing

Careful production methods are good for the environment and increase efficiency. Our practices include:

Using clean fuels

We use natural gas and low-sulfur oil whenever possible and conserve energy with heat-exchange processes throughout manufacturing operations.

Treating and recycling water

Managing water use saves more than 28 million gallons every day and reduces effluent discharges into municipal treatment systems.

Reducing waste

Waste from the production line and panels chipped or broken during processing are returned to the manufacturing cycle, keeping them out of landfills.

Offering specialized ceiling panels

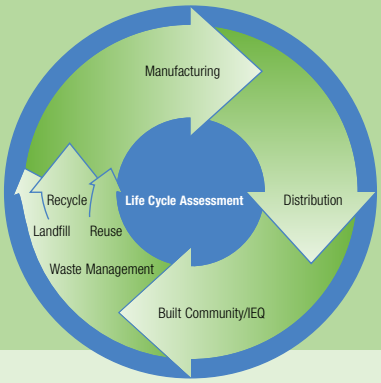
– Non-directional products such as RADAR™ ceiling panels reduce waste during installation.
– High-durability acoustical panels extend the useful life of ceilings and reduce operating and replacement costs.
– Panels with high light reflectance can enhance indirect lighting, reducing the number of light fixtures needed and lowering energy consumption. For more information about the light reflectance of USG ceiling panels, see pages 108–109.

Recycling old ceiling panels

USG can take back approved ceiling panels and recycle them into new building products. Reclaiming this waste can help meet the needs of a growing world and preserve natural resources.

Product Life Cycle:

USG's commitment to health, safety and environmental responsibility is evident at every stage in the life cycle chain.



OSHA Star VPP Approval

USG is the only ceiling suspension system manufacturer whose facilities have qualified for the OSHA Voluntary Protection Program (VPP), recognizing them as exemplary worksites with comprehensive, successful safety and health management systems. In addition, these sites have been qualified for the Star Program, OSHA's highest ranking. Companies in the Star Program have achieved injury and illness rates at or below the national average for their respective industries, with designated sites being self-sufficient in their ability to control workplace hazards. The management leadership and employee engagement necessary to attain this elite status also enables these plants operate at the highest levels of efficiency, product quality and customer service.

To learn more about our recycling program for acoustical ceilings, see pages 124 and 298–299.

Antimicrobial Protection

Mold has become a significant concern due to today's fast-track scheduling, which can allow high levels of moisture to become trapped in a structure during construction. Architects, designers, contractors and maintenance engineers must work together to prevent and address moisture accumulation both during construction and throughout a building's life cycle. The best and most cost-effective strategy is to prevent water intrusion with good design, construction, and maintenance practices.

USG helps owners and specifiers provide additional safeguards against mold and mildew growth with several high-performance ceiling solutions:

Dual inhibition of mold/mildew and bacteria

Many USG mineral-fiber panels with *ClimaPlus*™ performance are treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew and odor/stain-causing bacteria.

Superior protection and warranty coverage

USG *ClimaPlus* ceiling panels with Superior Performance are warranted to be free from the growth of mold, mildew, and Gram-positive and Gram-negative odor- and stain-causing bacteria for 30 years from the date of installation. This warranty also applies to USG *ClimaPlus* ceiling products that are formulated to inherently resist the growth of micro-organisms.

For more information about USG *ClimaPlus* ceiling panels with Inherent and Superior Performance, see page 121.

Astro *ClimaPlus* fine-textured panel

Frost *ClimaPlus* fine-textured panel

Earn LEED Credits

The most widely accepted national guidelines for environmentally conscious building is the LEED (Leadership in Energy and Environmental Design) Green Building Rating System® developed by the United States Green Building Council. As a founding member of the USGBC, USG is committed to helping architects and builders create structures that efficiently meet the needs of occupants while also protecting the surrounding environment. Following are credits for which USG ceilings may help a project qualify.

LEED Category	Available Credits	Products/Programs that May Assist in Qualifying for Credit
Energy and Atmosphere	EA 1: Optimize Energy Performance	Ceiling panels with high light reflectance (LR) can reduce the number of light fixtures needed, curbing energy consumption. See pages 108–109.
Materials and Resources	MR 1.3: Building Reuse–Maintain Interior	Cast-mineral-fiber panels are baked solid in molds for abuse resistance and through-color to resist abrasion and mask scrapes. See page 114.
	MR 2.1 and 2.2: Construction Waste Management Divert from Disposal	USG offers a nationwide recycling program that can take back approved mineral-fiber panels, reducing the impact on landfills. See pages 124 and 298–299.
	MR 3.1 and 3.2: Resource Reuse	Panels may contain synthetic mineral fiber converted from slag, a byproduct of steel making. Metal ceilings and components may include recycled aluminum. See page 120.
	MR 4.1 and 4.2: Recycled Content	Panels may contain paper recovered from both pre-consumer and post-consumer use. See pages 122–123.
	MR 5.1 and 5.2: Regional Materials Extracted, Processed and Manufactured Regionally	For manufacturing locations of USG ceiling products, see pages 122–123.
	MR 6: Renewable Materials	Panels may contain corn- and wheat-starch binders, renewable alternatives to traditional petroleum-based binders. See page 120.
Indoor Environmental Quality	EQ 4.1, 4.2, 4.3 and 4.4: Low-Emitting Materials	All USG products are low VOC emitters, and many panels emit no formaldehyde or only a low amount. See pages 122–123.
	EQ 8.1 and 8.2: Daylight and Views	Ceiling panels with high light reflectance (LR) can improve the quality and quantity of natural light by enhancing indirect lighting. See pages 108–109.
LEED for Schools	EQ 4, Option 6: Low-Emitting Materials – Ceiling and Wall Systems	All USG zero- and low-emitting ceiling panels and tile meet the Low-Emitting Materials requirement for ceiling and wall systems. See individual product pages for VOC Emissions classification.
	EQ 9: Enhanced Acoustical Performance For Schools	Many USG ceiling panels meet these acoustical requirements. See pages 294-295 for Sound Test Data to aid in product selection.
	EQ 10: Mold Prevention	USG ceiling panels and tile with *ClimaPlus* Superior Performance feature a patented antimicrobial treatment that provides broad-spectrum control for mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria. See pages 122-123.

Less Is More

Zero and Low Emissions

Indoor environmental quality (IEQ) is a vital consideration because it has such an impact on the health and wellbeing of a building's occupants. The choice of building materials is a critical factor because many products can release volatile organic compounds (vocs), which include thousands of synthetic and natural chemicals emitted by a wide array of materials, finished products, and even microorganisms such as mold and mildew. To help building professionals create healthy, comfortable spaces, USG provides a portfolio of ceiling panels and tiles with zero or low formaldehyde emissions, as tested per California Special Environmental Requirements, Specifications Section 01350:

Zero-Emitting Ceilings	**USG cast ceilings.** Concentration levels do not exceed 2 µg/m^3 (1.6 ppb), the background level specified for this test protocol. These products can help qualify for LEED EQ1 credit 3.2 and meet the intent of LEED credits 4.1, 4.2, 4.3, 4.4, 5.0 and 6.
Low-Emitting Ceilings	**Most USG mineral-fiber ceilings.** Concentration levels do not exceed the 13.5 ppb limit required by this test protocol and CHPS.
Ceilings That Meet Minimum Standards	**All USG ceilings.** Concentration levels do not exceed the 50 ppb limit established by the State of Washington in 1989, the first widely recognized standard for indoor air quality.

Zero-Emitting
0 ppb

Low-Emitting
Less than 13.5 ppb

Meets Minimum Standards
Less than 50 ppb

CHPS recognizes only those products tested per California Special Environmental requirements, Specifications Section 01350, which reflects typical occupancy conditions by specifying chamber volume, loading factor, temperature, humidity, air exchanges, duration and flow rate.

This ensures that performance is measured using consistent, uniform conditions, allowing architects and specifiers to compare products based on data derived from equivalent tests. Products that meet or exceed CHPS formaldehyde emission guidelines as tested per this protocol are listed at chps.net/manual/lem_table.htm. For more information about USG zero-emission and low-emission ceiling products, see the Sustainability selector on pages 122–123.

How to Specify Sustainable Building Materials

Although sustainability has become a fundamental principle underlying successful building design it remains a complex undertaking. Because environmental issues should be considered in every aspect of the design process, specifiers need a working knowledge of green definitions, criteria, standards and applications.

Green Product Selection

Green products can loosely be defined as those that reduce, recycle and renew. The Federal Trade Commission does not currently offer a definition for green products; a proposed SMART standard aims to codify what constitutes a sustainable product (see **mts.sustainableproducts.com/standards.htm** for more information). Simplified, sustainable products should achieve the following:

– Reduce the amount of raw materials needed for manufacturing, transportation, storage and construction.
– Offer high recycled content and environmentally friendly reuses, thereby reducing raw material usage, energy consumption and landfill waste.
– Renew the environment by using materials that can be regenerated or that offer environmentally friendly benefits.

These principles must be balanced with consideration of embodied (or embedded) energy, the amount of non-renewable energy required to extract, manufacture, transport and construct building products. Products with low embodied energy are typically sustainable choices. However, products with high embodied energy are not always poor choices. For example, the high embodied energy of a product with great thermal mass may be more than offset by its ability to reduce energy needs for heating and cooling.

Green Specifications

To maximize sustainability architects should incorporate sustainable design criteria into building specifications. Proper specification details ensure that the benefits inherent in green products are supported during the construction process and fully realized throughout the building's life cycle.

The first step is to use a standard specification layout, such as MasterFormat™, from the Construction Specifications Institute. Simply add detailed notes and full explanations of the environmental requirements expected. There's no need to create additional sections, as this may confuse contractors and building owners already familiar with the MasterFormat structure.

When writing environmental specifications, define *your* meaning of terms such as "recyclability" and "post-industrial materials," and consider adding these general criteria:

– Outline on-site storage procedures. To avoid standing water, materials should not be stacked on the ground, and cartons should not be left unopened and exposed to weather.
– Detail methods for storing and discarding waste. Conduct a pre-construction meeting with contractors to discuss minimizing waste and disposal, and to explore alternative reuse options.
– Encourage good construction practices. Realistic construction schedules will enable contractors to fully enclose buildings to minimize moisture penetration, which can contribute to poor product and system performance.

Do not include descriptions of a project's environmental goals (e.g., attaining a LEED green building rating) in the specification. Rather, include this information in instructions to bidders.

Richard C. Master, AIA, CSI
AIA Chair Emeritus, Specifications and Building Technology, Professional Interest Area
2008 AIA Chicago President
Manager, Architectural Systems, USG Corporation

Acoustical Performance

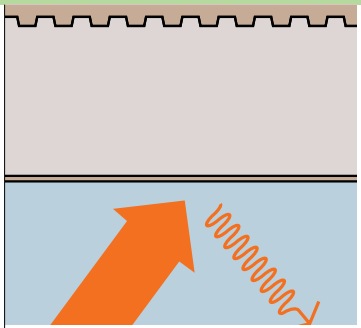
The sound symbol on the product information pages in this catalog identifies USG ceiling panels designed to help improve privacy, comfort and productivity by effectively absorbing sound and blocking sound transmission. Privacy can be further enhanced with sound masking, which covers noise not absorbed or blocked.

In addition to making work spaces more acoustically comfortable, high-performance ceiling panels and sound masking can help highly regulated industries comply with federal privacy rules, such as the Health Insurance Portability and Accountability Act (HIPAA) in the healthcare industry and the Financial Services Modernization Act of 1999, also known as the Gramm-Leach-Bliley Act (GLBA), in the financial industry.

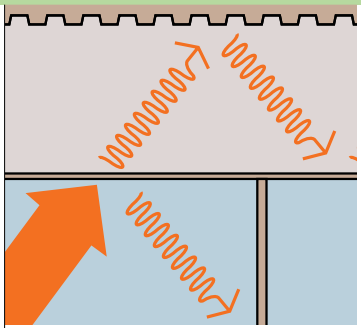
Here's a closer look at how quality USG ceiling panels and Lencore sound masking systems make spaces more pleasant, productive and industry compliant.

Sound Absorption

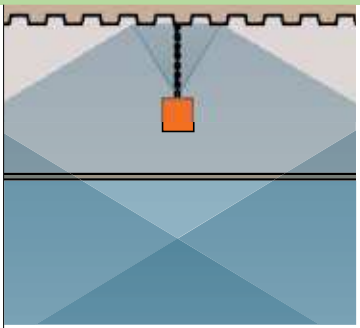
Noise Reduction Coefficient (NRC) measures the degree to which a ceiling panel absorbs sound. Ceiling panels with a high NRC value are most appropriate for open areas because they can reduce reverberation within a space. NRC is represented by a number between 0 and 1.00, which indicates the percentage of sound reaching the panel that will be absorbed. For example, an acoustical ceiling panel with a NRC value of .60 will absorb 60% of the sound that strikes it and deflect 40% back into the space. A ceiling panel with a NRC of .50 or higher is considered to offer significant sound absorbing properties.



Sound Absorption



Sound Blocking



Sound Masking

Sound Blocking

Ceiling Attenuation Class (CAC) indicates the ability of a ceiling system to reduce sound transmission. Panels with a high CAC value can improve privacy in enclosed spaces by blocking sound from transmitting up into the plenum and down to adjacent rooms. A ceiling panel with a CAC of 40 will reduce transmitted sound by 40 decibels (dB). A ceiling panel with a CAC of 35 or higher is considered to offer significant sound attenuation properties.

Sound Masking

Lencore Acoustics Corp.

Quality ceiling panels can absorb and block significant amounts of sound, but noise may still transmit and reflect to adjacent areas. A critical design decision is to add sound masking, which can cover noise and "mask" conversation in open areas and improve speech privacy in enclosed offices.

To help you achieve this level of acoustical performance, USG has teamed up with Lencore Acoustics, an industry leader in sound masking, to offer an effective, affordable solution that can significantly improve sound control in the environments you create. Sound masking helps you:

Equalize background sound.

Lencore sound masking works by electronically producing a unique sound spectrum similar to that of softly blowing air. This carefully engineered sound is amplified through individual speakers installed above the suspended ceiling. The sound masking fills the plenum area and gently filters down through the ceiling panels into the space below, uniformly raising the background sound level to cover distracting office noise.

Improve concentration and speech privacy.

In open-plan offices, sound masking can help workers concentrate without interference from nearby speakerphones, conversations and meetings. In enclosed offices and conference rooms, sound masking and high-CAC ceiling panels work together to prevent intelligible conversation from being overheard outside.

Provide acoustical balance.

Even exceptionally quiet environments can benefit from sound masking. In these spaces, the faintest sounds—rustling papers, drawers opening and closing—can be distracting. By providing greater acoustical balance, Lencore sound masking can make almost any space more comfortable, functional and productive.

To learn more about how sound masking can enhance the sound control and speech privacy performance of a USG ceiling, see pages 296–297 or visit Lencore Acoustics online at www.lencore.com. Local assistance is available from Lencore expert representatives in all 50 states to provide complete project services and support, from acoustical analysis, through system installation and tuning.

Specialized Performance

Many interior environments with demanding functions (such as food preparation, hydrotherapy, exercise, athletics and cleanroom control) require performance beyond aesthetics, sound control and sustainability. USG offers many options to meet a diverse range of specialized performance needs.

Abuse Resistance

Routine plenum access can blemish panels with unsightly scratches, and chips and dents can occur in high-traffic areas such as hallways, classrooms and gyms. When durability is key, consider the following products.

Specially formulated mineral-fiber ceiling panels feature higher-density construction and special finishes to enhance durability and damage resistance. Panels include:

RADAR™ *CLIMAPLUS*™ High-Durability panels deliver 20% greater durability than competitive "school products" and 55% more than standard acoustical panels.

ROCK FACE® *CLIMAPLUS*™ and TOUCHSTONE™ *CLIMAPLUS*™ panels feature special textures and coatings for enhanced abuse resistance.

MARS™ *CLIMAPLUS*™ panels resist visible damage in independently verified surface scratch tests and withstand 150 scrub cycles without surface break using the Gardner Scrubability Test, per ASTM D24861.

Cast ceiling panels, available exclusively from USG, are formed and cured in molds, making them up to three times stronger than standard panels. Cast panels feature an integrally color-coordinated substrate to mask nicks or scrapes. Panels include:

- BRIO™ *CLIMAPLUS*™
- "F" FISSURED™
- FRESCO™ *CLIMAPLUS*™
- FROST™ and FROST™ *CLIMAPLUS*™
- GLACIER™
- SANDRIFT™ *CLIMAPLUS*™
- SUMMIT™ *CLIMAPLUS*™

SUMMIT *CLIMAPLUS*
fine-textured panel

SANDRIFT *CLIMAPLUS*
medium-textured panel

Humidity Resistance

Moist air in indoor pool areas, shower and locker rooms, and buildings not fully enclosed can cause standard panels to visibly sag. For high-humidity areas, choose panels with *ClimaPlus* performance. These products resist sag in up to 95% relative humidity and up to 104 ˚F. Radar™ Ceramic *ClimaPlus*™ panels even resist sag in up to 100% relative humidity. *ClimaPlus* products carry a limited warranty of up to 30 years when installed in a Donn® brand suspension system.

Fire Resistance

USG offers many ceiling panels with Firecode™ formulation, which provides special additives for increased fire resistance. Fire-rated suspension main tees are manufactured with relief notches that will contract in high heat to hold the ceiling assembly together and prevent collapse. Fire-rated panels and suspension system components are identified with the fire icon on the individual product pages in this catalog.

Cleanliness

Cleanrooms, food preparation areas and computer rooms require ceilings with specific attributes and performance levels. Clean Room™ *ClimaPlus*™ Class 10M-100M and Class 100 panels feature vinyl laminated surfaces and meet Federal Standard 209E, "Clean Room and Work Station Requirements Controlled Environments." Sheetrock® brand Clean Room™ lay-in ceiling panels with gypsum core, sealed edges and vinyl face and back, can also be used in cleanrooms up to Class 100. Cleanroom-rated applications require a suspension system with gasketed tees such as the Donn® CE system.

For food preparation areas, choose Class 100 panels or Sheetrock® Vinyl *ClimaPlus*™ lay-in ceiling panels, which meet U.S. Department of Agriculture Food Safety Inspection Service requirements.

Exterior Applications

Exterior soffits and ceilings in open parking garages and marine environments are subjected to large temperature swings, wind, humidity and incidental water exposure. USG offers several products that can be used in these challenging applications:

– Sheetrock Vinyl *ClimaPlus* lay-in ceiling panels
– Donn® ZXLA™ hot-dipped galvanized suspension system with aluminum cap
– Paraline® linear metal ceiling system, wind-load tested to 120 mph.
– USG drywall suspension system for flat ceilings
– Celebration™ metal ceiling panels

Code Compliance

Building codes seek to ensure safer, stronger building systems and structures and minimize damage and liability in natural disasters and accidents. Key codes governing ceiling design address fire and seismic protection, design and construction.

Fire Resistance

Fire resistance refers to the ability of a ceiling, wall or floor assembly to serve as a barrier to fire and prevent its spread due to collapse, breaches in the barrier or excessive heat conduction.

Ratings

A fire-resistance rating (fire rating) classifies the length of time a ceiling can confine and isolate flame outside and resist heat transfer into a zone of fire-resistance-rated wall, ceiling and floor assemblies. Fire-rated assemblies are tested and certified in their entirety by Underwriters Laboratories, Inc. USG offers more than 300 UL fire-rated ceiling assembly designs that have achieved UL fire ratings of up to three hours.

Another common life-safety rating is established by ASTM E84. With this test, a material is exposed to flame and analyzed for two performance factors: flame spread and smoke developed. All USG acoustical ceiling panels are rated Class A (the highest possible) based on this test. These materials do not sustain a fire when flame is removed and do not generate significant amounts of visibility-obscuring smoke. Class A is not a fire-resistance designation.

Components for Fire-Rated Ceiling Assemblies

USG ceiling panels with FIRECODE formulation contain special additives that increase fire resistance and may qualify for use in fire-rated assemblies. FIRECODE panels are identified with a fire resistance icon on the individual product pages in this catalog. Fire-rated ceiling assemblies also require demanding suspension system performance: main tees with fire relief notches, which contract in high heat to hold the ceiling together and prevent collapse. Several USG suspension systems are available with this important feature and are identified with a fire resistance icon on individual product pages.

For more information on fire-rated ceiling designs, see the UL Fire Resistance Directory, which is updated every year and can be viewed at www.ul.com. For a summary of USG fire-rated assemblies, see pages 302–313.

Seismic Compliance

Seismic compliance refers to the use of approved systems and designs that meet the seismic design requirements of a building project to provide life safety to occupants during and after an earthquake.

New Seismic Requirements

Seismic force levels and design criteria were once considered only in certain earthquake-prone locations. But major revisions to the International Building Code (IBC) now require seismic ceilings throughout the U.S. In addition to geographic location, the new code considers soil type and building function (e.g., hospital, school). Based on these criteria, more than half of the U.S. is now considered to have some level of seismic risk.

The design team, consulting engineers and code officials must work together to analyze these factors and determine the applicable seismic design category (A–F). This information is now required for every construction project and must be included in the construction documents.

Tested Components for Seismic Ceilings

Two critical factors apply with a suspended ceiling system in a seismic application: The system components themselves, and the application method. Since 1957 Donn suspension systems have set the standard, using the highest-gauge steel to produce the tightest systems available with the greatest lateral and torsional stiffness. These systems utilize optimal structural designs and employ connection mechanisms that far exceed industry requirements including tension, compression and pullout. As a result, USG suspension systems are better able to resist the lateral forces of a seismic event.

Building on this commitment to quality, USG teamed with the University at Buffalo (SUNY), the Department of Civil, Structural and Environmental Engineering—Structural Engineering and Earthquake Simulation Laboratory (SEESL) as well as the University of California, Berkeley, Earthquake Engineering Research Center (EERC) to conduct full-scale seismic testing to evaluate and qualify the seismic performance of these systems.

Code Compliance

This testing proved that architects, contractors and building officials can rely on Donn suspension systems to:

– Meet or exceed all national code requirements with 7/8 in. wall molding.
– Fulfill requirements for IBC seismic design categories A, B, C, D, E, and F.
– Provide evidence of compliance (and greatly exceed) ICC Evaluation Service, Inc. (ICC-ES) AC156 and AC368 requirements.
– Deliver proven code-compliant solutions 42% stronger than competing systems.
– Offer an aesthetically attractive option to traditional 2 in. angle molding.
– Provide approved solutions certified with the maximum sq. ft. weights accommodating complete ceilings systems.
– Offer a cost-saving Intermediate Duty system without perimeter wires that exceeds the requirements of AC156 and AC368.

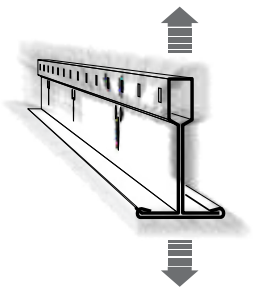
Seismic Qualification

Seismic testing typically focuses on the suspension system itself. Any ceiling panel can be installed in the test assembly regardless of how little it weighs, and components such as light fixtures and air handling equipment are usually excluded. In practical application, however, the suspension system must support and carry the weight of a fully functional ceiling system, including ceiling panels that can weigh as much as 2 lbs./sq. ft.

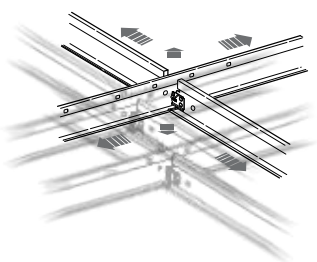
Therefore, USG tested suspension systems with light fixtures, air handing equipment, and a wide range of USG ceiling panels. Full-scale testing performed at the University at Buffalo (SUNY) the department of Civil, Structural and Environmental Engineering—Structural Engineering and Earthquake Simulation Laboratory (SEESL) and the University of California, Berkeley, Earthquake Engineering Research Center (EERC) certifies that USG IBC-compliant assemblies are able to accommodate loads 39% heavier than those claimed by competing systems. No other suspension system can match the tightness and seismic performance of USG suspension systems, performance evident in these superior test results.

Learn more at www.seismicceilings.com

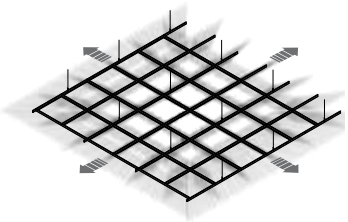
To find out more about new requirements for seismic ceilings, visit the USG Seismic Ceilings Resource Center at seismicceilings.com. This informative online resource features in-depth articles about the code change, FAQs, and interviews with ceilings experts. It also includes a comprehensive library of architectural details downloadable in PDF and CAD formats.



Donn grid is produced with the optimal combination of shape, size, steel gauge and conncetion details to produce systems with the greatest stiffness and movement resistance.



The advanced connection details used on Donn grid are nearly double the intersection strength requirement of 180 lbs. of tension and compression for seismic construction.



Extensive seismic testing proves the advanced connection details along with the systems' optimal combination of shape, size, and steel gauge.

Factors that Determine Seismic Design Category

Seismic construction standards are established to prevent structural collapse during or after an earthquake that could cause panic, injury or death. More than half of the U.S. is now considered to be at some level of risk for seismic activity, based on three factors:

Soil condition

Certain soil types may be prone to liquefaction, when the stress and shaking of earthquake forces cause sediments to behave like liquids rather than a solid, reducing or eliminating structural support. The soil at a building site is analyzed and categorized into one of six types:

A – Hard rock

B – Rock

C – Very dense soil and soft rock

D – Stiff soil (default)

E – Soft soil

F – Special soils

Building usage

The function of the structure also determines the level of precaution that is to be designed and built in. Building types fall into three groups:

Seismic Use Group III: essential facilities such as hospitals, fire departments and police departments that must function both during and after an earthquake.

Seismic Use Group II: buildings that constitute a substantial public interest, such as power plants and those that house more than 300 people.

Seismic Use Group I: all other buildings.

Geographic location

Thoughts of earthquakes and seismic activity may typically bring to mind California and the West Coast. However, this is not the only region considered to face seismic risks. In fact, more than 3,500 earthquakes have been recorded east of the Mississippi River since 1700. Today's building codes are recognizing that seismic activity may be a risk almost anyplace in the country.

By analyzing these three criteria for a construction project, you can determine the seismic design category (A-F). This is typically done by the project's structural engineer. The design team performs the analysis required to assign the seismic design category for a construction project and must include that information in the construction documents. This tells the construction team the required level of performance for the building.

Refer to local building codes to determine in which section of the specification the seismic design category must appear (usually in the general-contractor section of the specification and on the first page of structural drawings).

Specialty Ceilings

Selectors

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70	Curvatura 3-Dimensional System
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92	Quadra Ceiling Coffers
94	Topo 3-Dimensional System
96	Translucents Luminous Ceiling Panels
98	Transparencies Luminous Ceiling System
100	WireWorks Open-Cell Ceiling Panels

Specialty Ceilings

Metal Systems

LIBRETTO Serpentine Islands

Metal Systems

COMPASSO Perimeter Trim

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C2 Paired COMPASSO Channels

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COMPASSO Slim Perimeter Trim

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CURVATURA 3-Dimensional System

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GRIDWARE Suspension System

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PARALINE Linear Ceiling System

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Metal Panels

Metal Panels

Celebration Panels	Geometrix 3-Dimensional Panels	Geometrix Wall-Mount Solution
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Panz Panels	WireWorks Open-Cell Panels	
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Specialty Ceilings

Luminous Panels and Systems

Topo 3-Dimensional System

Luminous Panels and Systems

Billo 3-Dimensional Panels

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Topo 3-Dimensional System

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Transparencies "Glass Block" System

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Translucents Panels

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Fiber-Reinforced Cast Gypsum Systems

Fiber-Reinforced Cast Gypsum Systems

CADRE Concepts Ceiling Coffers

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CADRE Contemporary Ceiling Coffers

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CADRE Executive Ceiling Coffers

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CADRE Historical Ceiling Coffers

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QUADRA Ceiling Coffers

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Metal Finishes

Please call 888 874.2450 to request a sample.

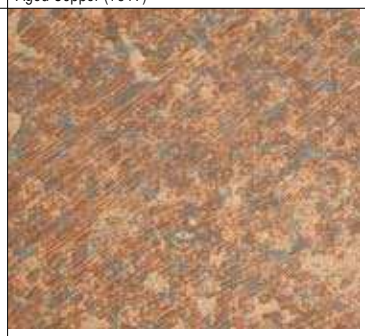
USG offers metal ceiling panels in several distinctive finishes: Premium Metal, Anodized Metal—Brushed or Polished, Painted Metal, and Wood Tones. These color reproductions are shown to represent available finishes and colors. A sample should be reviewed before placing an order.

Availability

	Premium Metals	Anodized Metals	Painted Metals						DIAMONDFLEX Expanded Metals	Wood Tones
			Flat White	Silver Satin	Metallic Copper	Metallic Gold	Metallic Oyster	Custom Color		
CELEBRATION Metal Ceiling Panels	○	○	●	●	○	○	○	●		●
COMPÄSSO Perimeter Trim		○	●	●				●		●
C² Paired COMPÄSSO Channels		○	●	●				●		●
CURVATURA 3-Dimensional System – 2′ x 2′ Panels			●	●	○	○	○	●	○	○
CURVATURA One-Directional System – 2′ x 6′ Panels			●	●	○	○	○	●		○
GEOMETRIX 3-Dimensional Metal Ceiling Panels			●	●				●		
GRIDWARE Suspension System[1]			●	●				●		
LIBRETTO Gridless Metal Ceiling System			●	●				●		
PANZ Metal Ceiling Panels	○	○	●	●	○	○	○	●	○	○
PARALINE Linear Metal Ceiling System		○	●	●	○	○	○	●		

● Suspension, trim and panel available in same painted color.
○ Suspension and trim available in coordinating painted colors only. See page 41.

1. Also available in Flat Black.
2. Anodized finish subject to "rainbowing"– multi-color patterns exaggerated by critical lighting.
3. All Standard and Advantage colors and custom colors available.
4. 2 ft. maximum panel width for painted metallic finishes
5. Vinyl wood-tone overlay.

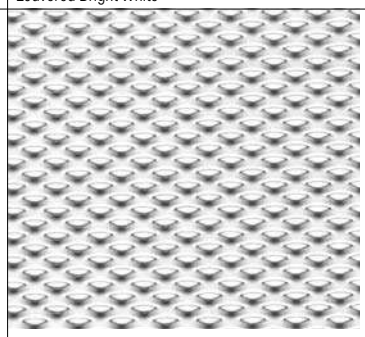
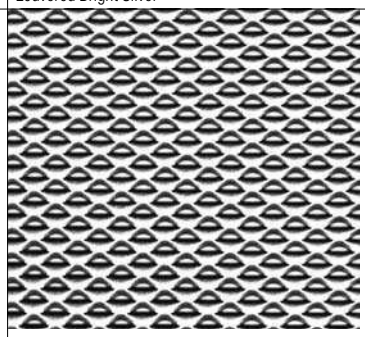
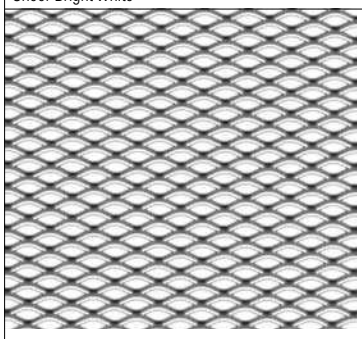
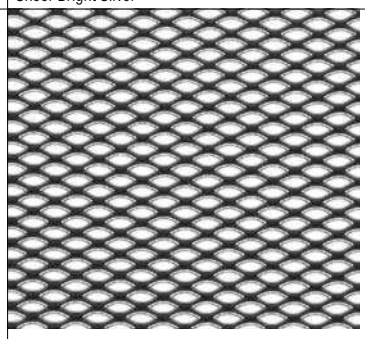
	Aged Copper (1017)	Etched Ice Dark (1016)	Etched Ice Light (1015)
Premium Metal 2′x 2′ panels only			
	Brushed Aluminum (PlA12)	Polished Brass (PM21)	Polished Aluminum (PM61)
Anodized Metals[2] Celebration and Panz, 2′x 2′ and 2′x 4′ panels only			
	Satin Chrome (PM614)		
	Polished Brass (PM21)	Polished Aluminum (PM61)	
Anodized Metals[2] Compässo – 2-1/4″, 4″, 6″ and 8″ trim only			

Metal Finishes

CURVATURA One-Directional Ceiling System

	Brushed Aluminum (PIA12)	Polished Aluminum (086)	
Anodized Metals[2] PARALINE only; PII – black reveal not available with these finishes	Metallic Copper (1690)	Metallic Gold (1691)	Metallic Oyster (1652)
Painted Metals[3] Metallic finishes shown[4]	Silver Satin (002)		

1. Also available in Flat Black.
2. Anodized finish subject to "rainbowing"– multi-color patterns exaggerated by critical lighting.
3. All Standard and Advantage colors and custom colors available.
4. 2 ft. maximum panel width for painted metallic finishes
5. Photographic transfer process.

	Louvered Bright White	Louvered Bright Silver	
DIAMONDFLEX Expanded Metals 2′x2′ panels only			
	Sheer Bright White	Sheer Bright Silver	
			
	Cherry (3111)	Maple (3112)	Oak (3113)
Wood Tones[5] CELEBRATION and PANZ, 1′x 4′, 1′x 5′, 20″x 60″, 2′x 2′ and 2′x 4′ panels. Shown with coordinating suspension and/ or trim color.			

Metal Perforations

Please call 888 874.2450 to request a sample

Presenting a complete line of perforation options for:

– Celebration metal ceiling system

– Curvatura 3-Dimensional system

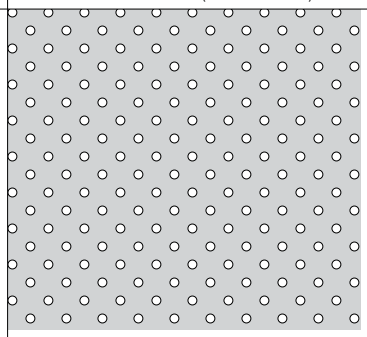
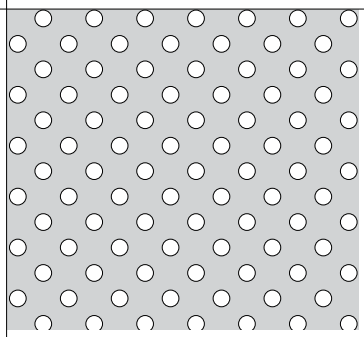
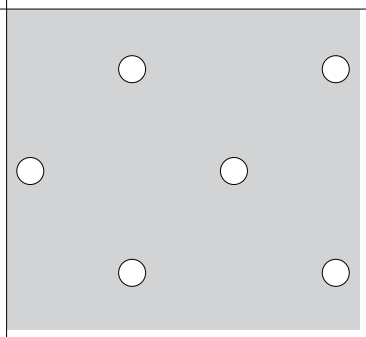
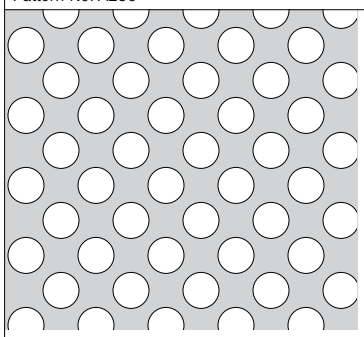
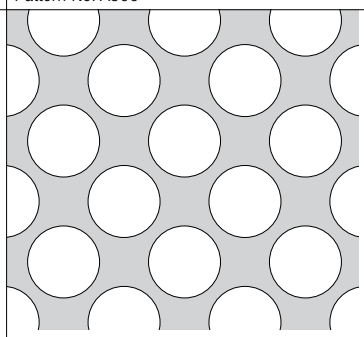
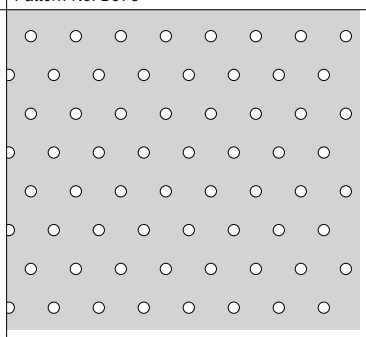
– Geometrix metal ceiling panels

– Panz metal ceiling panels.

Standard Perforations	Pattern Number	Perforation Pattern	Open Area %
Celebration, Curvatura 3-Dimensional, Geometrix and Panz Systems	A062	Round 1/16″ Perforations, .25″ o.c. (without border)	5%
	A062A	Round 1/16″ Perforations, .25″ o.c.;	5%
	A116	Round 15/128″ Perforations .354″ o.c.	17%
	A188	Round 3/16″ Perforations, 1″ o.c.	3%
	A250	Round 1/4″ Perforations, .5″ o.c.	39%
	A500	Round 1/2″ Perforations, .848″ o.c.	55%
	B079	Round 5/64″ Perforations .312″ o.c.	6%
	B125	Round 1/8″ Perforations, .375″ o.c.	10%
	B188A	Round 3/16″ Perforations, .312″ o.c.	33%
	B197	Round 13/64″ Perforations .316″ o.c.	35%
	B250	Round 1/4″ Perforations, .437″ o.c.	30%
	B250H (Formerly H250)	Round 1/4″ Perforations, .32″ o.c.	58%
	B312	Round 5/16″ Perforations. .437″ o.c.	46%
	B500[1]	Round 1/2″ Perforations, .600″ o.c.	63%
	C062[2]	Round 1/16″ Perforations, .351″ o.c.	2%
	C062A[2]	Round 1/16″ Perforations, .175″ o.c.	10%
	C116	Round 15/128″ Perforations .344″ o.c.	8%
	C188	Round 3/16″ Perforations, 1.414″ o.c.	1%
	C250A	Round 1/4″ Perforations, .65″ o.c.	12%
	C375[2]	Round 3/8″ Perforations, 1.125″ o.c.	9%
	C500	Round 1/2″ Perforations, 1.5″ o.c.	9%
	D250[2]	Square 1/4″ Perforations, .75″ o.c.	11%
	D375[2]	Square 3/8″ Perforations, 1.125″ o.c.	11%
	D500	Square 1/2″ Perforations. 1.5″ o.c.	17%
	D500D	Square 1/2″ Perforations. .595″ o.c.	70%
	EC25D[3]	Round 1/4″ dia. x 1/16″ Embossing, 1.18″ o.c.; No Perforation	0%
	EC25U[3]	Round 1/4″ dia. x 1/16″ Embossing, 1.18″ o.c.; No Perforation	0%
	EM25D[3]	Round 1/4″ dia. x 1/16″ Embossing, 1/4″ Perforations, 1.14″ o.c.	2%
	EM25U[3]	Round 1/4″ dia. x 1/16″ Embossing, 1/4″ Perforations, 1.14″ o.c.	2%

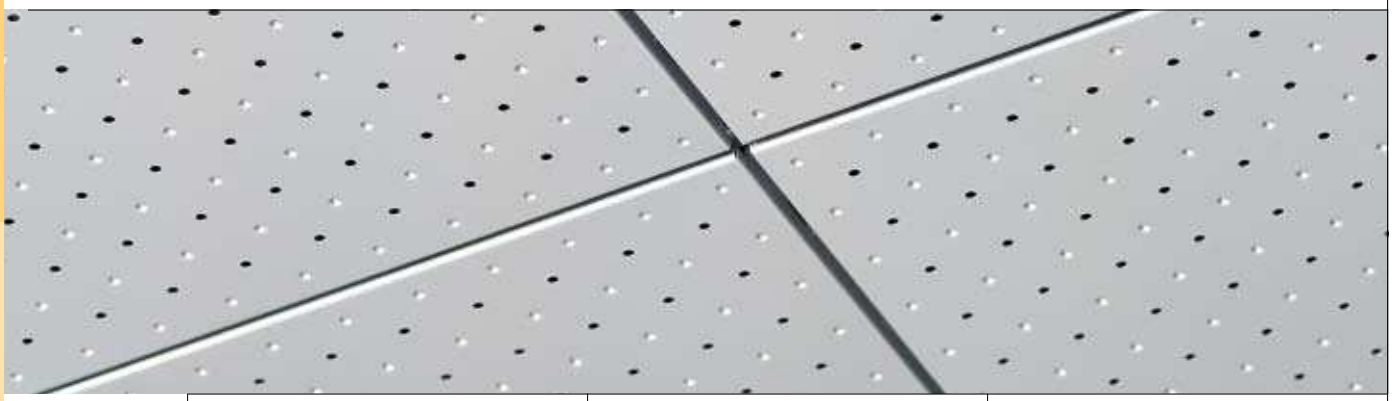
1. Do not use with One-Directional Curvatura system.
2. Standard for Geometrix panels.
3. 2′x2′ Celebration and Panz panels only.
4. Perforation patterns shown at 75% of actual size. When ordering, please refer to the pattern number for perforation samples (for example, “A062”). (All samples are 6″x6″)
5. 2′x2′ Celebration and Panz panels only.

Standard Perforations

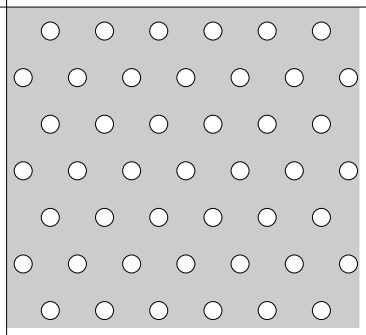
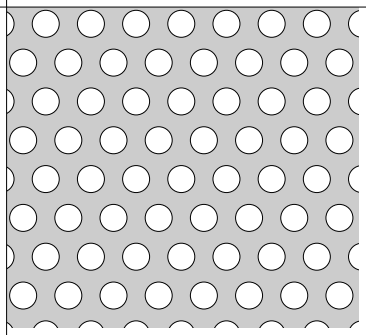
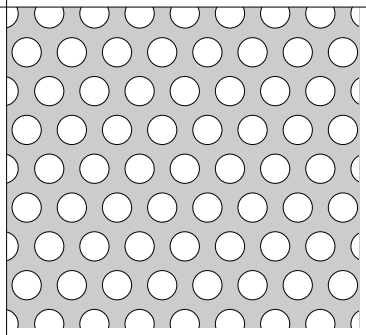
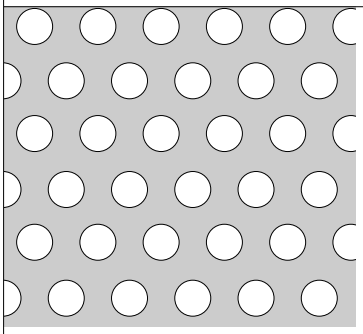
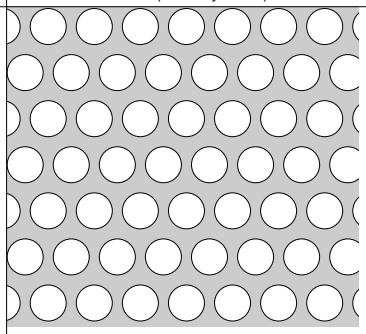
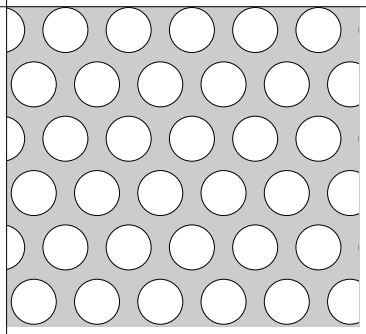
Pattern No. A062/A062A (without border)	Pattern No. A116	Pattern No. A188
		
Round—1/16″ perforations .25″ o.c., 5% open area	Round—15/128″ perforations .354″ o.c., 17% open area	Round—3/16″ perforations 1″ o.c., 3% open area
Pattern No. A250	Pattern No. A500	Pattern No. B079
		
Round—1/4″ perforations .5″ o.c., 39% open area	Round—1/2″ perforations .848″ o.c., 55% open area Not to be used with the One-Directional CURVATURA system	Round—5/64″ perforations .312″ o.c., 6% open area

Metal Perforations

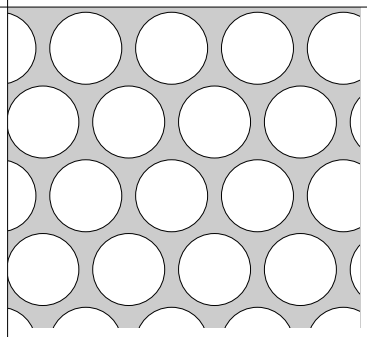
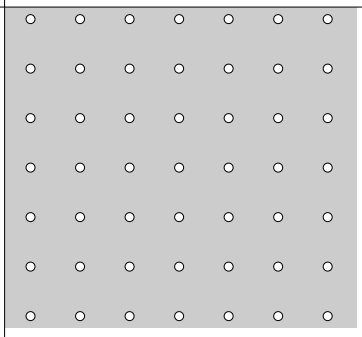
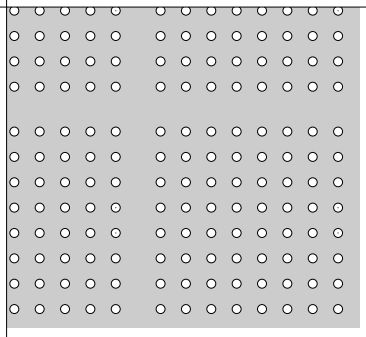
CELEBRATION panels with embossing and perforation

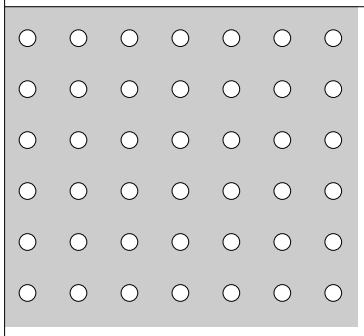
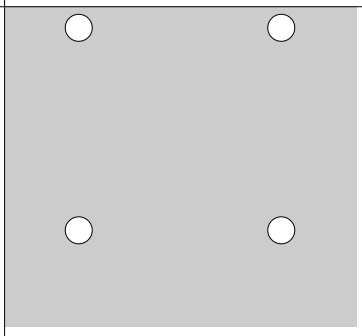
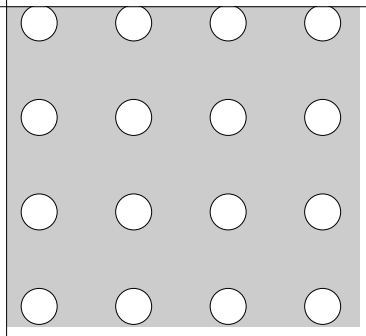


Standard Perforations

Pattern No. B125	Pattern No. B188A	Pattern No. B197
		
Round—1/8″ perforations .375″ o.c., 10% open area	Round—3/16″ perforations .312″ o.c., 33% open area	Round—13/64″ perforations .316″ o.c., 35% open area
Pattern No. B250	**Pattern No. B250H (formerly H250)**	**Pattern No. B312**
		
Round—1/4″ perforations .437″ o.c., 30% open area	Round—1/4″ perforations .32″ o.c., 58% open area	Round—5/16″ perforations .437″ o.c., 46% open area

Standard Perforations

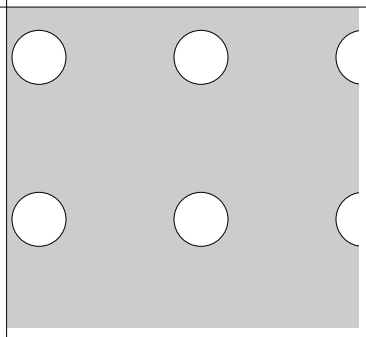
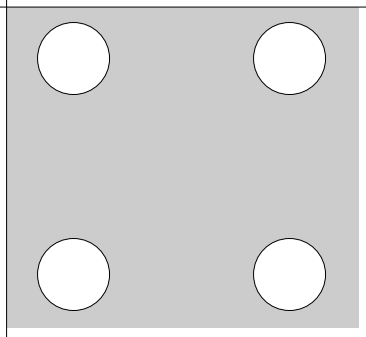
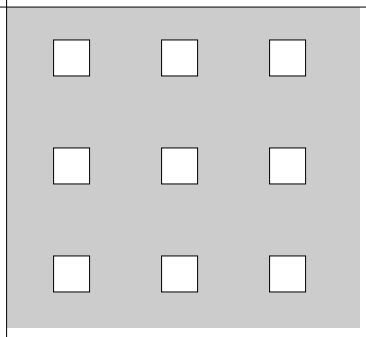
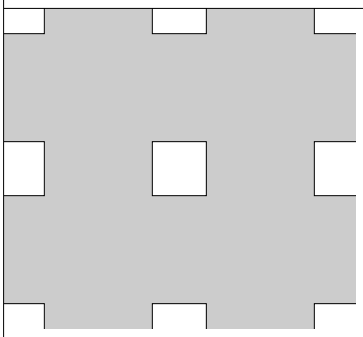
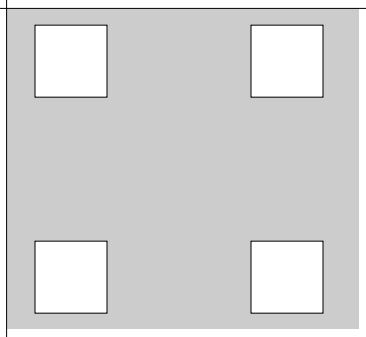
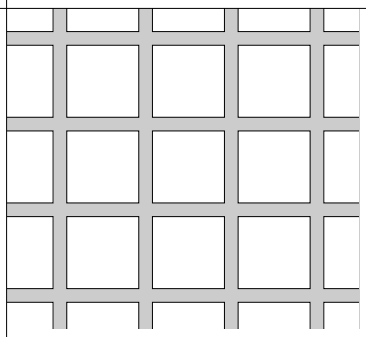
Pattern No. B500	Pattern No. C062	Pattern No. C062A
		
Round—1/2″ perforations	Round—1/16″ perforations	Round—1/16″ perforations
.600″ o.c., 63% open area	.351″ o.c., 2% open area	.175″ o.c., 10% open area
Not to be used with the One-Directional CURVATURA System		

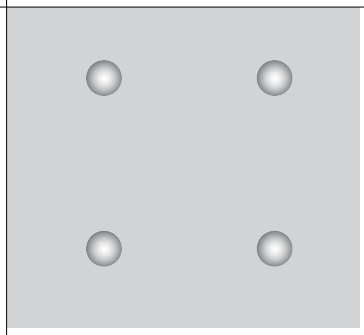
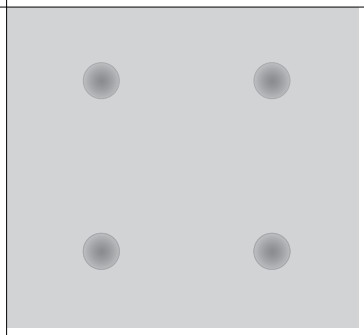
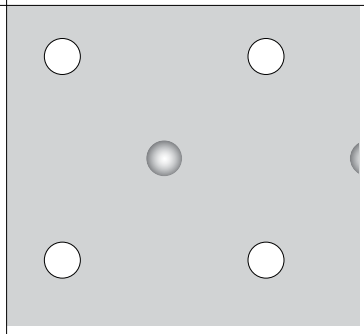
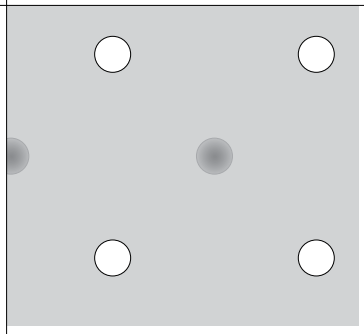
Pattern No. C116	Pattern No. C188	Pattern No. C250A
		
Round—15/128″ perforations	Round—3/16″ perforations	Round—1/4″ perforations
.344″ o.c., 8% open area	1.414″ o.c., 1% open area	.65″ o.c., 12% open area

Metal Perforations

PANZ panels with embossing

Standard Perforations

Pattern No. C375	Pattern No. C500	Pattern No. D250
		
Round—3/8″ perforations 1.125″ o.c., 9% open area	Round—1/2″ perforations 1.5″ o.c., 9% open area	Square—1/4″ perforations .75″ o.c., 11% open area
Pattern No. D375	**Pattern No. D500**	**Pattern No. D500D**
		
Square—3/8″ perforations 1.125″ o.c., 11% open area	Square—1/2″ perforations 1.5″ o.c., 17% open area	Square—1/2″ perforations .595″ o.c., 70% open area

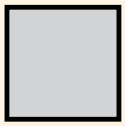
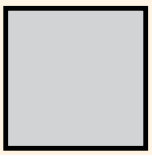
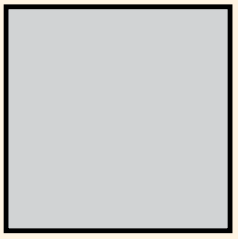
	Pattern No. EM25D	Pattern No. EM25U	
Embossing Only			
	Round – 1/4″ dia. x 1/16″ embossing	Round – 1/4″ dia. x 1/16″ embossing	
	1.18″ o.c., no perforation	1.18″ o.c., no perforation	
	Face side	Face side	
	Pattern No. EC25D	Pattern No. EC25U	
Embossing and Perforations			
	Round – 1/4″ perforations	Round – 1/4″ perforations	
	1.41″ o.c., 2% open area	1.41″ o.c., 2% open area	
	Black ACOUSTIBOND backer standard	ACOUSTIBOND backer not available	
	Face side	Face side	

Metal Panel Sizes

Many USG metal ceilings are available in a range of formats, from traditional 2 ft. x 2 ft. and 2 ft. x 4 ft. panels to new planks and large-size panels, providing options for enhancing visual interest and maximizing high-NRC areas.

The new LOGIX integrated ceiling system aligns services (lighting, sprinklers, speakers, etc.) along narrow bands infilled with 6" PANZ channel panels.

PANZ 600mm x 1050mm SL edge with A062 perforation in Flat White.
PANZ 400mm x 1800mm channel panels, solid, SL edge, with cutout for surface-mounted fixture.

	1′x 4′	1′x 5′	2′x 4′
Panel Sizes			
	CELEBRATION Panels PANZ Panels	CELEBRATION Panels PANZ Panels	CELEBRATION Panels PANZ Panels
	2′x 2′	30″x 30″	4′x 4′
			
	CELEBRATION Panels CURVATURA 3-Dimensional System GEOMETRIX 3-Dimensional Panels PANZ Panels WIREWORKS Panels	CELEBRATION Panels PANZ Panels	CELEBRATION Panels PANZ Panels

Online Selector for CELEBRATION and PANZ Planks and Large-Size Panels

To streamline your design process, visit our online selector at usg.planks.pivotinteractive.com. Use this interactive resource to select CELEBRATION and PANZ planks and large-size panels and available suspension systems, determine suspension system layout and perforation options, and generate a specification. Planks and large-size panels may require nonstandard main-tee lengths and cross-tee and hanger wire positions. The online selector makes it easy to create a layout that works in your space and incorporate a sophisticated new look into to your design.

	2′x 6′	2′x 8′	20″x 60″
Panel Sizes			
	CELEBRATION Panels CURVATURA One-Directional System PANZ Panels	CELEBRATION Panels PANZ Panels	CELEBRATION Panels PANZ Panels
	6″x 48″	6″x 60″	30″x 60″
	CELEBRATION Panels PANZ Channel Panels	CELEBRATION Panels PANZ Channel Panels	CELEBRATION Panels PANZ Panels

Billo™

Billo 3-Dimensional Panels, White Translucent and White Opaque/
Donn Centricitee DXT Suspension System, Flat White

Features and Benefits

– Three-dimensional curved panels punctuate flat ceiling planes with rhythm and depth.
– 2′ x 2′ pre-formed Lexan® panels create myriad patterns with just one simple panel shape.
– Lightweight, lay-in panels install into 9/16″ narrow-profile and standard 15/16″ Donn® brand suspension systems, allowing full ceiling accessibility.
– Luminous panels may be backlit with fluorescent strip fixtures or integrated with standard lay-in fixtures.

Applications

– All interior commercial applications.

Weave Pattern

Wave Pattern

Call 888 874.2450 for color samples

Clear Translucent | Blue Translucent | Glass Green Translucent | White Translucent | White Opaque

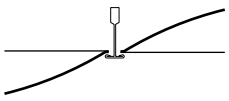
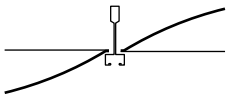
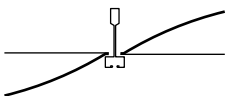
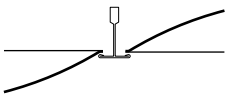
Product Information

Materials	Sizes and Weight	Module Size	Code Approval
Panels: Preformed Lexan polycarbonate. Suspension System: All 2′ x 2′ Donn 9/16″ Centricitee™ DXT and Fineline® DXF/DXFF profiles. Panels to fit the 2′ x 2′ 15/16″ DX®/DXL™ suspension system are available as a special order.	Panels: 2′ x 2′ Weight: .25 lbs./sf.	Full 2′ x 2′ modules only.	Billo Lexan infill panels meet Class A requirements for flame spread and smoke developed as defined by ASTM E1264, NFPA and IBC (UBC) as tested in accordance with ASTM E 84.

Finishes

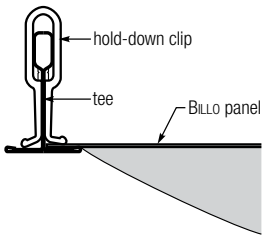
Panel Color	Panel Light Transmission	Suspension System Coordinating Colors
Clear Translucent	94%	Silver Satin
Blue Translucent	78%	Blue
Glass Green Translucent	77%	Glass Green
White Translucent	26%	Flat White
White Opaque	8%	Flat White

Edge Details

Billo Panels with 9/16″ Centricitee DXT Suspension	Billo Panels with 9/16″ Fineline DXF Suspension	Billo Panels with 9/16″ Fineline 1/8 DXFF Suspension	Billo Panels with 15/16″ DX/DXL Suspension
			

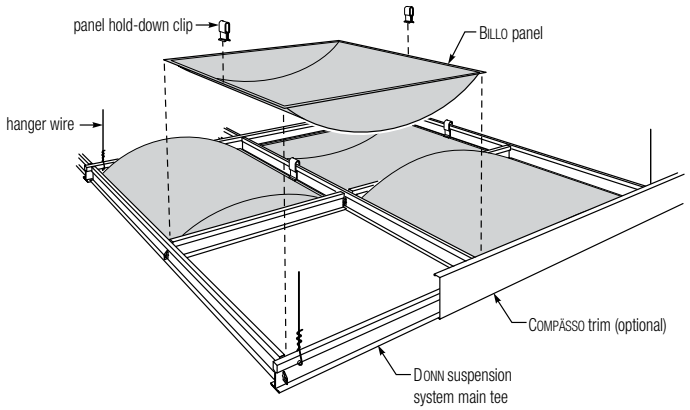
Panel Hold-Down Clip

Supplied with 9/16″ Down panels; available with 15/16″ Down panels and 9/16″ and 15/16″ Up panels.



Assembly

View from Above



For More Information

Product literature
System brochure: IC472
Data sheet: IC473

Online tools
Visit usgdesignstudio.com for details and 3-D models.

Recycled content
Billo panels: 0% recycled content; 100% recyclable.

Cadre® Concepts

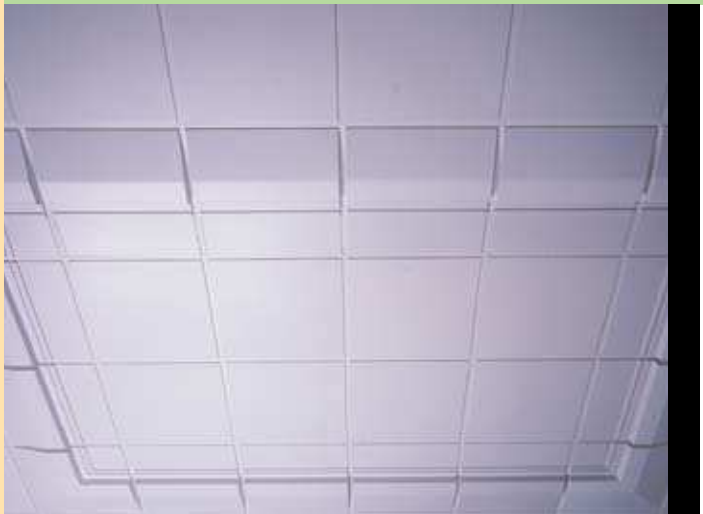
CADRE Concepts Ceiling Coffers/DONN DX/DXL Suspension System with COMPÄSSO Perimeter Trim

Features and Benefits

– Contemporary sculpted ceiling with complete accessibility to all above-ceiling utilities.
– Available in 2′ x 2′ and 4′ x 4′ lay-in panels for use with standard DONN® brand DX®/DXL™ suspension system.
– Pre-cut openings for hardware available or openings can be field-cut on site.
– Custom colors available.

Applications

– Financial institutions
– Office conference areas
– Ornate public spaces



Call 888 874.2450 for samples

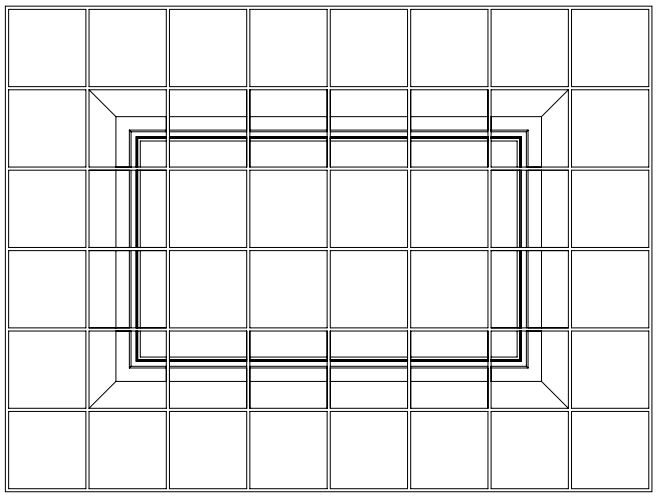
White

Product Information	
Materials	**Module Size**
Fiber-reinforced cast gypsum	Full 2′ x 2′ modules only. Only field panels may be field-cut and trimmed.

Concepts Panels

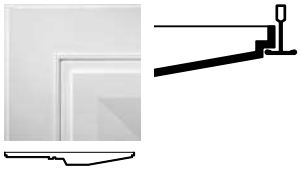
	Panel Size	Item Number	Edge	Surface	Color
Inside Corner	**2′ x 2′**	**CD176**	SL	Smooth	White
Outside Corner	**2′ x 2′**	**CD177**	SL	Smooth	White
Border	**2′ x 2′**	**CD175**	SL	Smooth	White
Field Pattern	**2′ x 2′**	**CD178**	SL	Smooth	White
Executive Dome	**4′ x 4′**	**CD209**	SL	Smooth	White

Example Layout

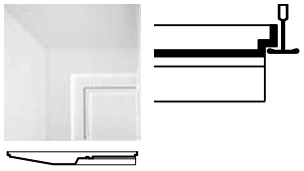


Panel Designs

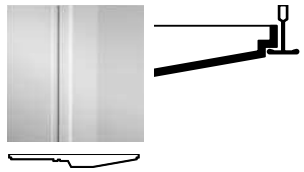
Inside Corner



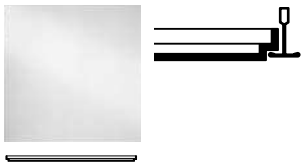
Outside Corner



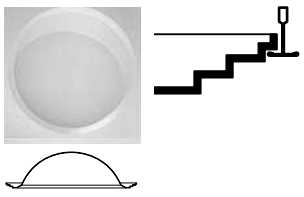
Border



Field Pattern



Executive Dome*



* Overall dome height is 11″.

For More Information

Product literature
Data sheet: IC303

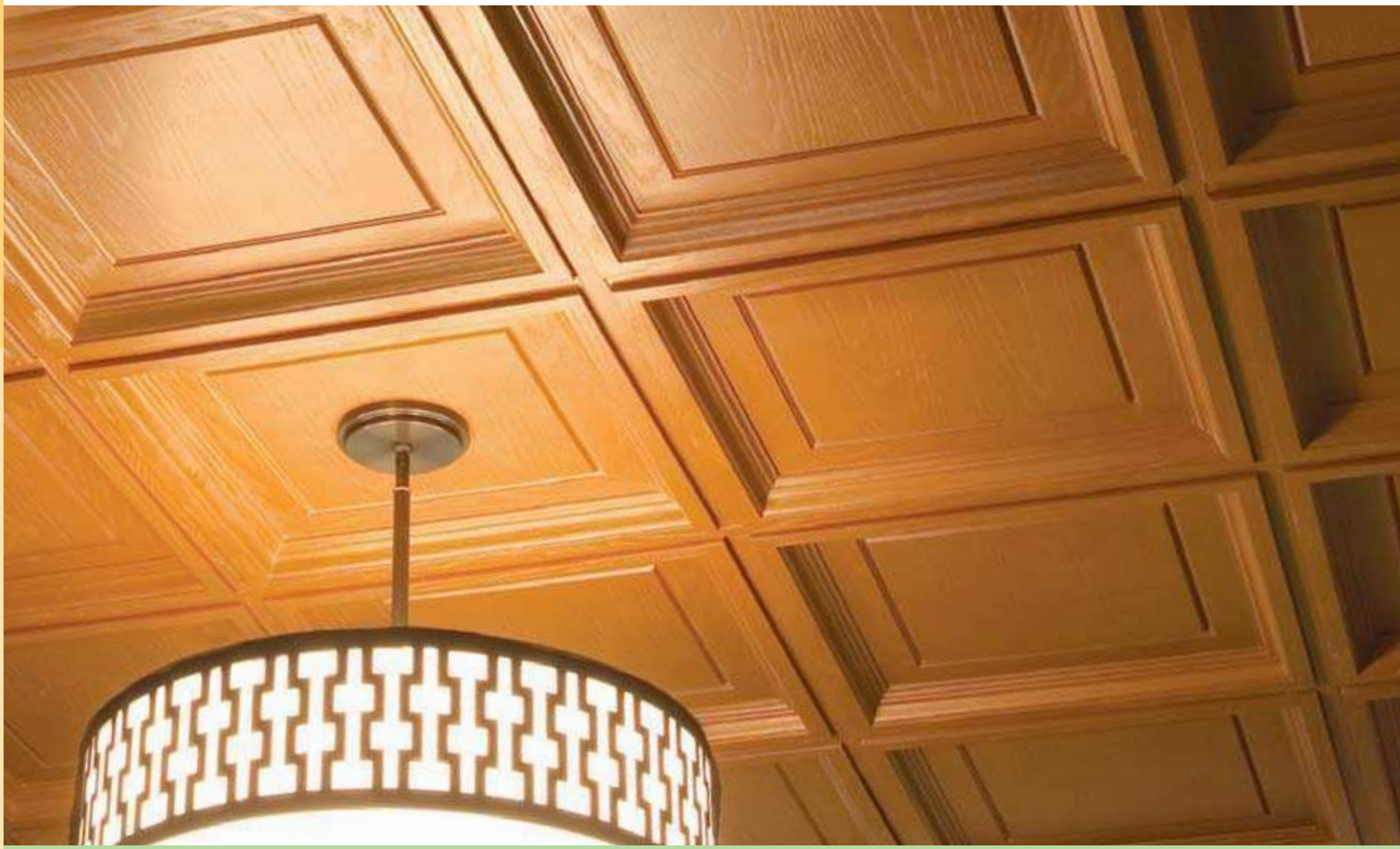
Online tools
usgdesignstudio.com

ASTM E84 surface burning characteristics
Class A
Flame spread: 0
Smoke developed: 5

UPITT protocol
Non-toxic, all-gypsum composition meets New York City's stringent MEA standards.

Recycled content
Contact Technical Service at 800 USG.4YOU.

Cadre® Contemporary



CADRE Contemporary Traditional Chandelier Panels/
DONN DX/DXL Suspension System

Features and Benefits

– Contemporary sculpted ceiling with complete accessibility to all above-ceiling utilities.
– Available in 2′ x 2′ and 4′ x 4′ lay-in panels for use with standard DONN® brand DX®/DXL™ suspension system.
– Pre-cut openings for hardware available or openings can be field-cut on site.
– Custom panel designs can be manufactured to meet exact specifications.
– Custom colors and five woodgrain finishes with matching suspension available.

Applications

– Financial institutions
– Office conferencing areas
– Ornate public spaces

Call 888 874.2450 for color samples

White

Wood Grain

Cherry Wood | Colby Walnut | Mahogany | Medium Walnut | Natural Oak

Product Information	
Materials	**Module Size**
Fiber-reinforced cast gypsum	Full 2′ x 2′ or 4′ x 4′ modules only.

Contemporary Panels	Panel Size	Item Number	Edge	Surface	Color
Classic	**2′ x 2′**	**CD430**	SL	Smooth	White
	2′ x 2′	**CD630-06**	SL	Woodgrain	Cherry Wood
	2′ x 2′	**CD630-05**	SL	Woodgrain	Colby Walnut
	2′ x 2′	**CD630-03**	SL	Woodgrain	Mahogany
	2′ x 2′	**CD630-02**	SL	Woodgrain	Medium Walnut
	2′ x 2′	**CD630-01**	SL	Woodgrain	Natural Oak
Classic Chandelier	**4′ x 4′**	**CD216**	SL	Smooth	White
	4′ x 4′	**CD167-06**	SL	Woodgrain	Cherry Wood
	4′ x 4′	**CD167-05**	SL	Woodgrain	Colby Walnut
	4′ x 4′	**CD167-03**	SL	Woodgrain	Mahogany
	4′ x 4′	**CD166-02**	SL	Woodgrain	Medium Walnut
	4′ x 4′	**CD165-01**	SL	Woodgrain	Natural Oak
Traditional Chandelier	**4′ x 4′**	**CD179**	SL	Smooth	White
	4′ x 4′	**CD182-06**	SL	Woodgrain	Cherry Wood
	4′ x 4′	**CD182-05**	SL	Woodgrain	Colby Walnut
	4′ x 4′	**CD182-03**	SL	Woodgrain	Mahogany
	4′ x 4′	**CD181-02**	SL	Woodgrain	Medium Walnut
	4′ x 4′	**CD180-01**	SL	Woodgrain	Natural Oak

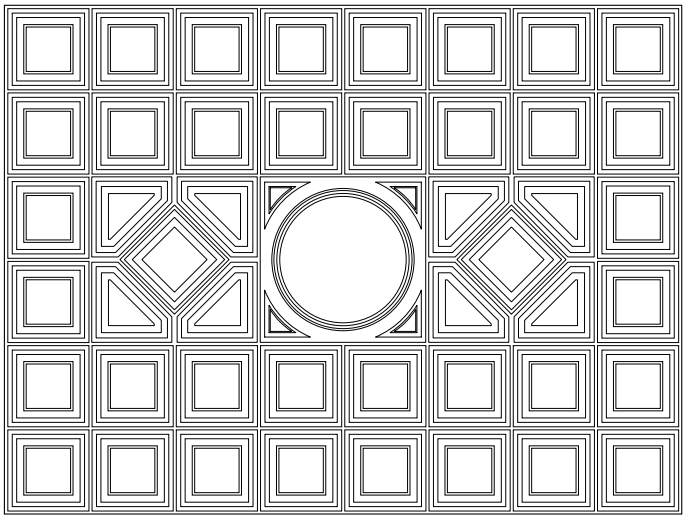
Panel Designs

Classic

Classic Chandelier

Traditional Chandelier

Example Layout



For More Information

Product literature
Data sheet: IC306

Online tools
usgdesignstudio.com

ASTM E84 surface burning characteristics
Class A
Flame spread: 0
Smoke developed: 5

UPITT protocol
Non-toxic, all-gypsum composition meets New York City's stringent MEA standards.

Recycled content
Contact Technical Service at 800 USG.4YOU.

Cadre® Executive

CADRE Executive Ceiling Coffers/
CADRE Suspension System

Features and Benefits

– Classic, modern coffered architecture provides complete accessibility to above-ceiling utilities.
– 2′ x 2′, 2′ x 4′, and 4′ x 4′ lay-in panels for use with standard DONN® brand DX®/DXL™ suspension systems.
– Pre-cut openings for hardware available or openings can be field-cut on site.
– Custom colors available.

Applications

– Financial institutions
– Office conferencing areas
– Ornate public spaces

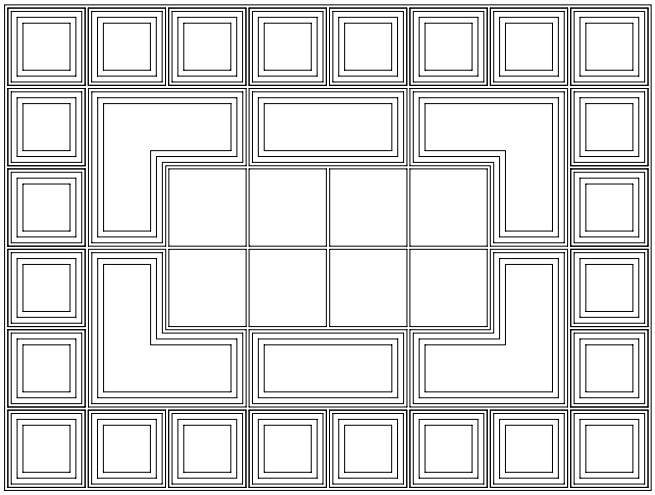
Call 888 874.2450 for samples

White

Product Information	
Materials	**Module Size**
Fiber-reinforced cast gypsum	Full modules only. Only field panels may be field-cut and trimmed.

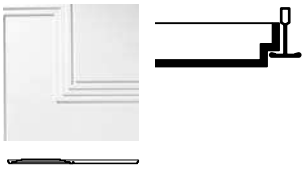
Executive Panels	Panel Size	Item Number	Edge	Surface	Color
Corner	**4′ x 4′**	**CD210**	SL	Smooth	White
Border	**2′ x 4′**	**CD211**	SL	Smooth	White
Executive	**2′ x 2′**	**CD680**	SL	Smooth	White
Field Pattern	**2′ x 2′**	**CD212**	SL	Smooth	White
Executive Dome	**4′ x 4′**	**CD209**	SL	Smooth	White

Example Layout

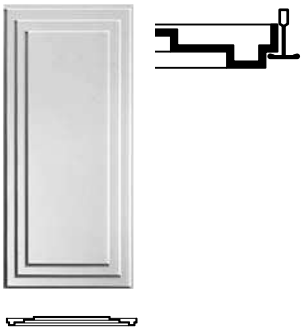


Panel Designs

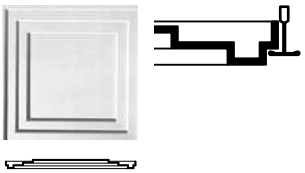
Corner



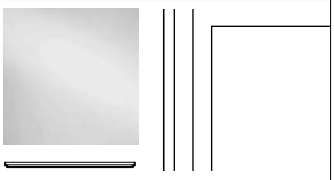
Border



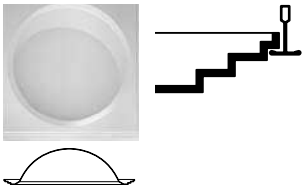
Executive



Field Pattern



Executive Dome*



* Overall dome height is 11″.

For More Information

Product literature
Data sheet: IC305

Online tools
usgdesignstudio.com

ASTM E84 Surface burning characteristics
Class A
Flame spread: 0
Smoke developed: 5

UPITT protocol
Non-toxic, all-gypsum composition meets New York City's stringent MEA standards.

Recycled content
Contact Technical Service at 800 USG.4YOU.

Cadre® Historical

CADRE Rosette Ceiling Coffers/
CADRE Suspension System

Features and Benefits

- The look of a turn-of-the-century sculpted ceiling with complete accessibility to above-ceiling utilities.
- Pre-cut openings for hardware available or openings can be field-cut on site.
- Custom panel styles can be manufactured to meet exact design requirements.
- Custom colors and five woodgrain finishes with matching suspension system available.

Applications

- Financial institutions
- Office conference areas
- Ornate public spaces

Call 888 874.2450 for color samples

White

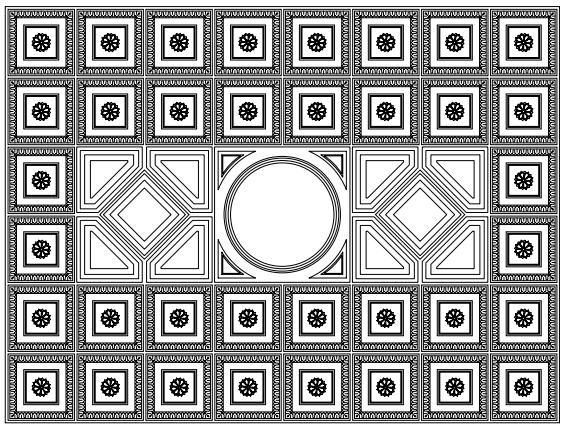
Wood Grain

Cherry Wood | Colby Walnut | Mahogany | Medium Walnut | Natural Oak

Product Information	
Materials	**Module Size**
Fiber-reinforced cast gypsum.	Full 2′ x 2′ modules only. .

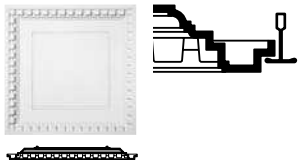
Historical Panels		Panel Size	Item Number	Edge	Surface	Color
	Dentil	**2′ x 2′**	**CD420**	SL	Smooth	White
		2′ x 2′	**CD620-06**	SL	Woodgrain	Cherry Wood
		2′ x 2′	**CD620-05**	SL	Woodgrain	Colby Walnut
		2′ x 2′	**CD620-03**	SL	Woodgrain	Mahogany
		2′ x 2′	**CD620-02**	SL	Woodgrain	Medium Walnut
		2′ x 2′	**CD620-01**	SL	Woodgrain	Natural Oak
	Egg & Dart	**2′ x 2′**	**CD410**	SL	Smooth	White
		2′ x 2′	**CD610-06**	SL	Woodgrain	Cherry Wood
		2′ x 2′	**CD610-05**	SL	Woodgrain	Colby Walnut
		2′ x 2′	**CD610-03**	SL	Woodgrain	Mahogany
		2′ x 2′	**CD610-02**	SL	Woodgrain	Medium Walnut
		2′ x 2′	**CD610-01**	SL	Woodgrain	Natural Oak
	Rosette	**2′ x 2′**	**CD390**	SL	Smooth	White
	Traditional	**2′ x 2′**	**CD370**	SL	Smooth	White
		2′ x 2′	**CD670-06**	SL	Woodgrain	Cherry Wood
		2′ x 2′	**CD670-05**	SL	Woodgrain	Colby Walnut
		2′ x 2′	**CD670-03**	SL	Woodgrain	Mahogany
		2′ x 2′	**CD670-02**	SL	Woodgrain	Medium Walnut
		2′ x 2′	**CD670-01**	SL	Woodgrain	Natural Oak
	Traditional Dome	**4′ x 4′**	**CD184**	SL	Smooth	White

Example Layout

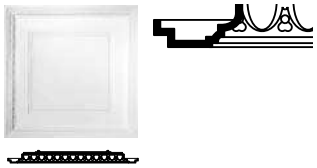


Panel Designs

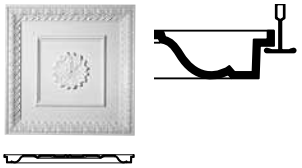
Dentil



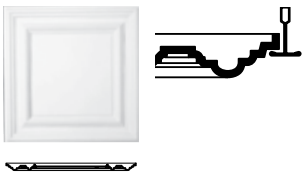
Egg & Dart



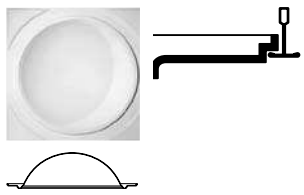
Rosette



Traditional



Traditional Dome*



* Overall dome height is 11″.
Not available in woodgrain finishes.

For More Information

Product literature
Data sheet: IC335

Online tools
usgdesignstudio.com

ASTM E84 Surface burning characteristics
Class A
Flame spread: 0
Smoke developed: 5

UPITT protocol
Non-toxic, all-gypsum composition meets New York City's stringent MEA standards.

Recycled content
Contact Technical Service at 800 USG.4YOU.

Celebration™

CELEBRATION Silver Satin Metal Ceiling Panels/
DONN FINELINE DXF Suspension System

LEED Credits

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance[2]
●	●	●				●

Features and Benefits

– Aluminum panels provide a monolithic appearance.
– Easy installation into standard DONN® brand FINELINE® DXF suspension system.
– Snap-up installation with downward access is excellent for shallow plenum areas.
– Wall-mount solution available; see IC508.
– Systems up to 30″ wide and 78″ long windload tested to 120 MPH with proper bracing and exterior framing.

Applications

– Entertainment
– Gaming
– Exterior soffits
– Hospitality
– Transportation terminals

Call 888 874.2450 for color samples
See IC415 for color and perforation availability.

Painted Metals

Flat White | Silver Satin 002 | Metallic Copper 1690 | Metallic Gold 1691 | Metallic Oyster 1652

Premium Metals

Aged Copper 1017 | Etched Ice Dark 1016 | Etched Ice Light 1015

Wood Tones

Cherry | Maple | Oak

Anodized Metals

Brushed Aluminum PIA12 | Polished Aluminum PM61 | Polished Brass PM61 | Satin Chrome PM614

Product Information

Materials	Finishes	Typical Sizes[3]	Plenum Depth	Weight
Aluminum panels: Painted or anodized.	2′ x 2′ panels available with perforation and/or embossing.	2′ x 2′, 4′ x 4′[4], 30″ x 30″	Since panels are installed from below, the clearance for installation and removal of panels is minimal. Additional plenum clearance of up to 9″ is required for air boot and lighting installations, depending on the unit selected.	Approximately .53 lbs. per sq. ft., not including lights and air diffusers.

Grid Layout

The modular nature of CELEBRATION ceilings must be considered when an installation is designed. Main tees and cross tees are exactly on module lines. Panels may be field-cut at walls and columns or terminated at a grid module for island installations.

Acoustics

Description	Optional Acoustical Material	Sound Rating – NRC	
		Perforation A062	Perforation A116
Perforated panel	ACOUSTIBOND backer	.65	.70
Perforated panel	1-1/2″, 6 lb. density fiberglass	.90	.95
Perforated panel	2″, .75 lb. fiberglass in poly bag	.85	.90

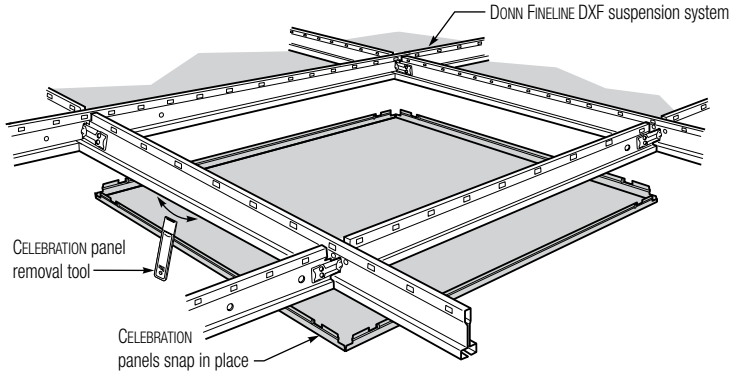
Air Handling

Air diffusers may be located around the perimeter of the ceiling or laid into the grid in place of CELEBRATION panels. The CELEBRATION diffuser is an extruded aluminum frame with matching faceplate and color-coordinated vanes, in 1-, 2-, 3-, and 4-slot configurations, with four-directional throw.

Code Approval

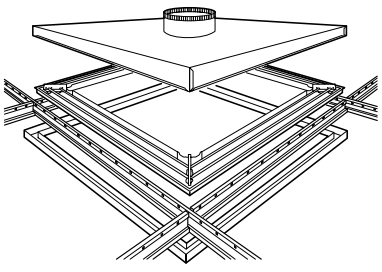
CELEBRATION panels provide a continuous interlock with the suspension system. Supporting grid is capable of sustaining loads greater than those imposed by the CELEBRATION system when installed in accordance with manufacturer's instructions.

Perspective

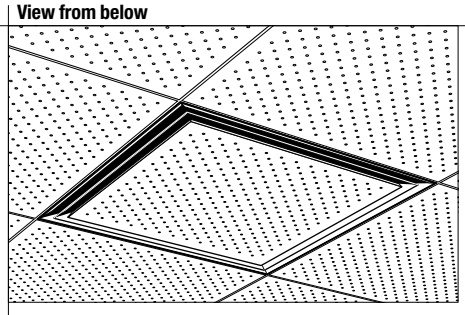


CELEBRATION Air Diffuser
Available in 1-, 2-, 3- and 4-slot configurations, with four-directional throw.

View from above



View from below



For More Information

Product literature
System brochure: IC415
Data sheet: IC308

Online tools
usgdesignstudio.com

Acoustics
These values are for standard A062 perforation pattern.

Recycled content
CELEBRATION aluminum panels: 70% recycled content.

Footnotes
1. Dependent on location; contact your USG representative.
2. Requires perforation and ACOUSTIBOND backer.
3. Additional sizes available on request.
4. Interior use, painted finishes only.

Celebration™ Planks and Large Sizes

2′ x 6′ and 1′ x 4′ Celebration Planks

LEED Credits

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance[2]
●	●	●				●

Features and Benefits

– Available in numerous painted colors and Wood Tones, and a range of perforation patterns.
– Precision 1/4″ reveal and concealed suspension system provide a monolithic appearance.
– Snap-up installation into standard Donn® brand Fineline® DXF suspension system provides downward access.
– Perforated panels with Acoustibond® sound backer produce .65 NRC without additional acoustical material (enclosed plenum, minimum depth 18″).

Applications

– Offices
– Entertainment
– Gaming
– Hospitality
– Transportation terminals

Call 888 874.2450 for color samples
See IC415 for color and perforation availability.

Painted Metals

Wood Tones[3]

Product Information

Materials	Typical Sizes[4]	Plenum Depth	Weight
Aluminum panels	1′ x 4′, 1′ x 5′, 20″ x 60″, 2′ x 6′, 2′ x 8′, 30″ x 60″	Since panels are installed from below, the clearance for installation and removal of panels is minimal. Additional plenum clearance of up to 9″ is required for air boot and lighting installations, depending on the unit selected.	Approximately .53 lbs. per sq. ft., not including lights and air diffusers.

Grid Layout

The modular nature of CELEBRATION ceilings must be considered when an installation is designed. Main tees and cross tees are exactly on module lines. Panels may be field-cut at walls and columns or terminated at a grid module for island installations. Intermediate tees required with panels longer than 5 ft. For plank-style suspension and layout options, visit usg.planks.pivotinteractive.com or usgdesignstudio.com.

Acoustics

Description	Optional Acoustical Material	Sound Rating – NRC	
		Perforation A062	Perforation A116
Perforated panel	ACOUSTIBOND backer	.65	.70
Perforated panel	1-1/2″, 6 lb. density fiberglass	.90	.95
Perforated panel	2″, .75 lb. fiberglass in poly bag	.85	.90

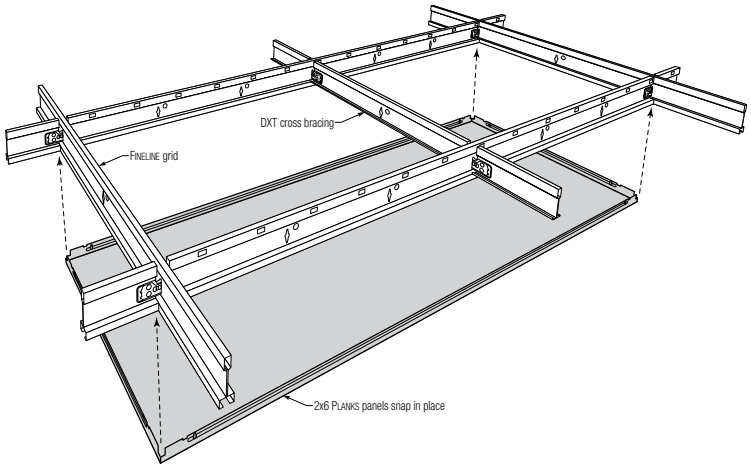
Air Handling

Air diffusers may be located around the perimeter of the ceiling or laid into the grid in place of CELEBRATION panels. The CELEBRATION diffuser is an extruded aluminum frame with matching faceplate and color-coordinated vanes, in 1-, 2-, 3-, and 4-slot configurations, with four-directional throw.

Code Approval

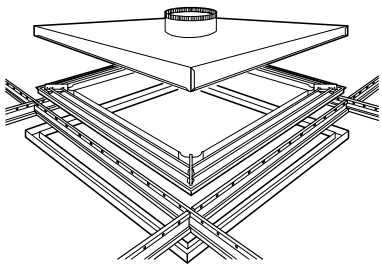
CELEBRATION panels provide a continuous interlock with the suspension system. Supporting grid is capable of sustaining loads greater than those imposed by the CELEBRATION system when installed in accordance with manufacturer's instructions.

Perspective

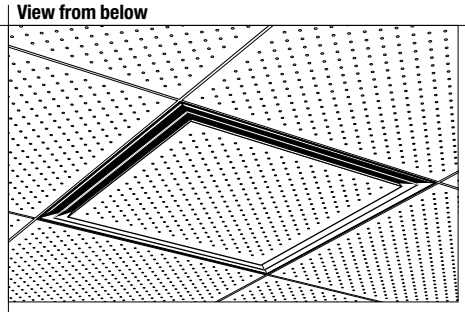


CELEBRATION Air Diffuser
Available in 1-, 2-, 3- and 4-slot configurations, with four-directional throw.

View from above



View from below



For More Information

Product literature
System brochure: IC415
Data sheet: IC539

Online tools
– usgdesignstudio.com
– usg.planks.pivotinteractive.com

Acoustics
These values are for standard A062 perforation pattern.

Recycled content
CELEBRATION aluminum panels: 70% recycled content.

Footnotes
1. Dependent on location; contact your USG representative.
2. Requires perforation and ACOUSTIBOND backer.
3. Available for 1′x 4′, 1′x 5′, 20″x 60″ and 2′x 6′ panels.
4. Additional sizes available on request.

Compässo™

Compässo Perimeter Trim with Halcyon *ClimaPlus* Ceiling Panels/
Donn Fineline DXF Suspension System

LEED Credits

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

Features and Benefits

– Creates free-form ceiling islands or fascias to define space and provide visual impact.
– Available in six trim heights: 2-1/4″, 4″, 6″, 8″, 10″ and 12″.
– Costs a fraction of conventional drywall soffit construction.
– Made to order—arrives onsite pre-engineered.
– Strong, durable, and long-lasting steel or aluminum construction.
– Guaranteed to fit all USG ceiling systems.

Applications

– Contemporary offices
– Entertainment
– Gaming
– High-bay areas
– Retail spaces
– Virtually anywhere

Call 888 874.2450 for color samples

Painted Metals

Flat White

Silver Satin 002

Anodized Metals[2]

Polished Aluminum PM61

Polished Brass PM21

Wood Tones[2]

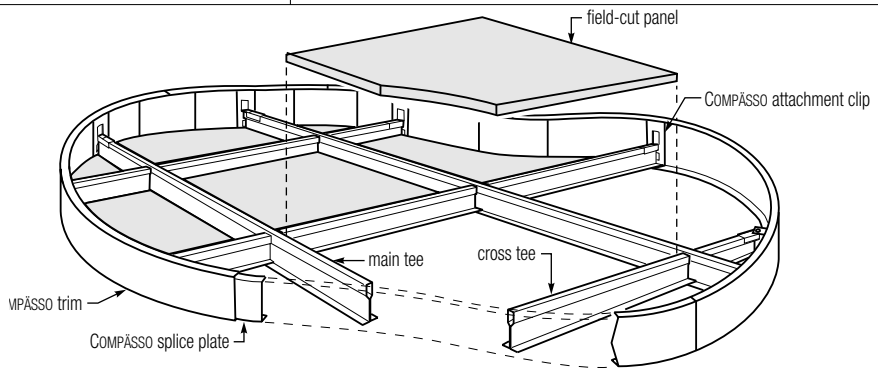
Cherry

Maple

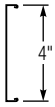
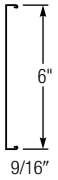
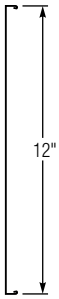
Oak

	Product Information	
	Materials	
	2-1/4″, 4″, 6″ and 8″ painted steel. 10″ and 12″ painted aluminum.	

Perspective

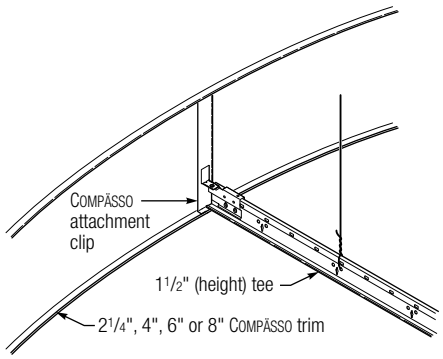


Trim Profiles

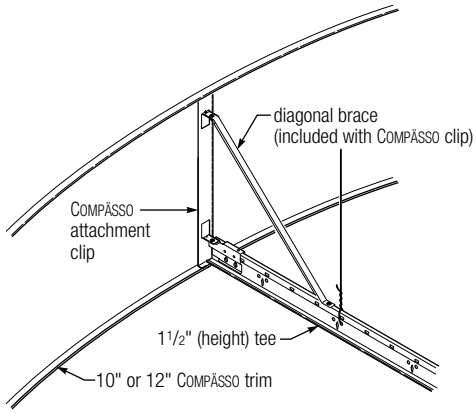
2-1/4″	4″	6″	8″	10″	12″
					

Attachment Clip

2-1/4″, 4″, 6″, 8″



10″, 12″



For More Information

Product literature
System brochure: IC400
Data sheet: IC309

Online tools
usgdesignstudio.com

Recycled content
COMPÄSSO 2-1/4″, 4″, 6″ and 8″: 20% recycled content;
10″ and 12″: 70% recycled content.

Footnote
1. Dependent on location; contact your USG representative.
2. Available for 2-1/4″, 4″, 6″ and 8″ profiles.

C² Paired Compässo™ Channels

C² Paired Compässo Channels

LEED Credits

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

Features and Benefits

– Unique, multi-functional ceiling accents combine form and function.
– Easily integrate lighting and signage; can also be used as way-finding devices.
– Available in straight and curved sections; five sizes; and custom colors to meet any design need.
– Easy to install—suspend from ceiling with hanger wire, cable or rods.

Applications

– Retail spaces
– Contemporary offices
– Education environments
– Entertainment
– Gaming

Call 888 874.2450 for color samples

Painted Metals

Flat White

Silver Satin 002

Anodized Metals[2]

Polished Aluminum PM61

Polished Brass PM21

Wood Tones

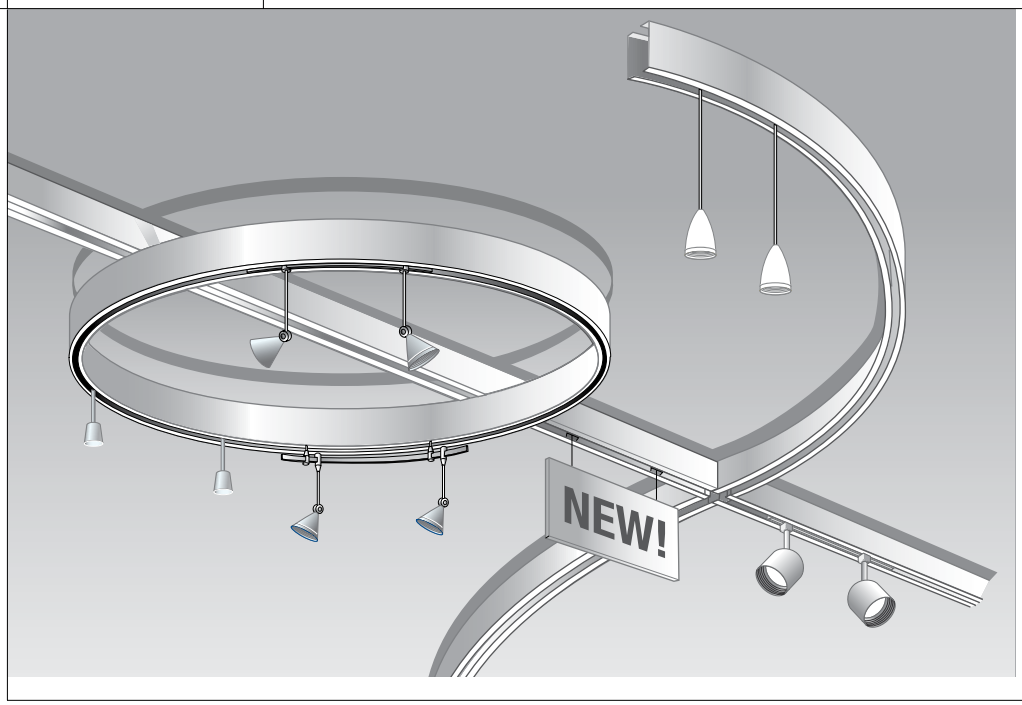
Cherry

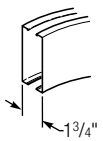
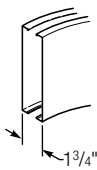
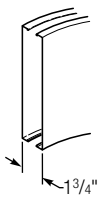
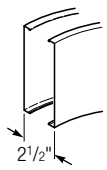
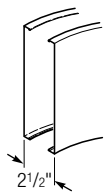
Maple

Oak

Product Information	
Materials	
Painted steel	

Custom Designs
Pre-engineered –
no field cutting



	Narrow Reveal (5/8″)			Wide Reveal (1-3/8″)	
Size Options	**4″**	**6″**	**8″**	**6″**	**8″**
					

Exposed Hanger Solutions
For ceiling islands and other installations with exposed hanger wires, USG offers stainless steel wire and rope wire with a variety of connectors for an attractive alternative to standard 12-gauge wire. See installation guide IC453 for more information.

For More Information

Product literature
System brochure: IC400
Data sheet: IC401

Online tools
usgdesignstudio.com

Recycled content
Compásso channels: 25% recycled content.

Footnote
1. Dependent on location; contact your USG representative.

Compässo Slim™

Compässo Slim Perimeter Trim

LEED Credits

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●		●				

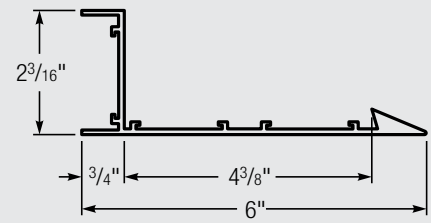
Features and Benefits

– Creates a wide, low-profile edge.
– Dramatically frames ceiling islands.
– An innovative alternative to traditional perimeter trim.
– Extruded aluminum with durable Slim White baked polyester paint finish.
– Precision-engineered to fit DX®/DXL™, Centricitee™ DXT and Fineline® DXF/DXFF suspension systems.
– Compatible with Square (SQ), Shadowline (SL) and Fineline (FL) acoustical panel edge profiles.

Applications

– Contemporary offices
– Entertainment
– Gaming
– High-bay areas
– Retail spaces

Section Detail



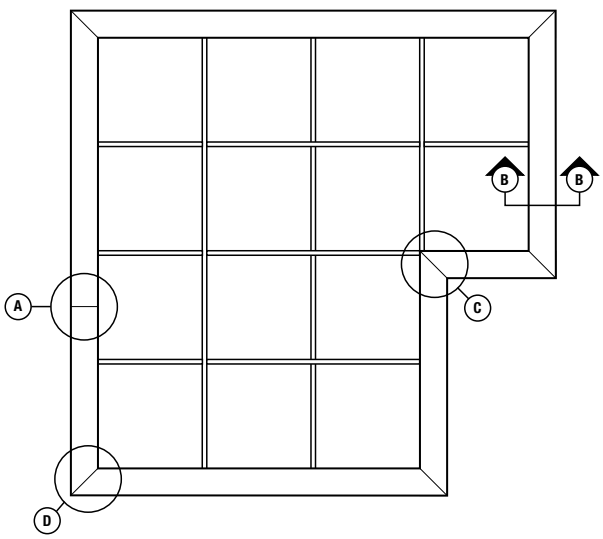
Call 888 874.2450 for samples

Slim White

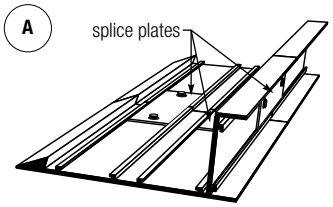
Product Information

Materials	Finishes
Extruded aluminum.	Slim White baked polyester paint finish; painted in custom colors.

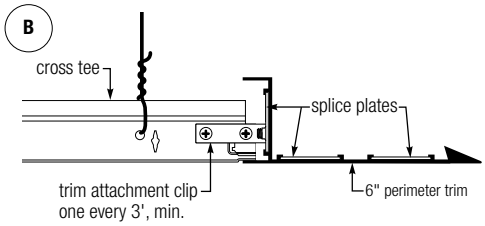
Reflected Plan



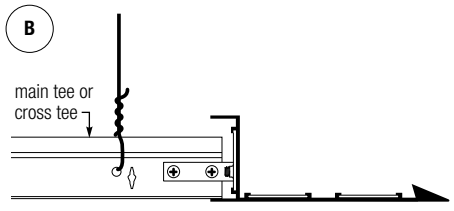
Splice Assembly



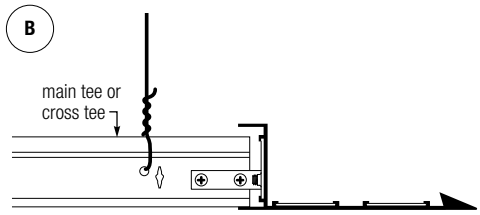
Edge Detail – DX/DXL and Centricitee, Full Module, at Cross Tees



Edge Detail–DX/DXL and Centricitee, Full and Partial Module



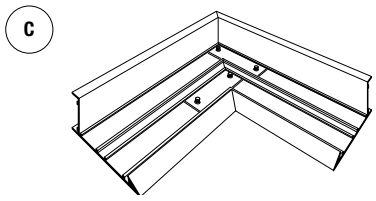
Edge Detail – Fineline Full and Partial Module



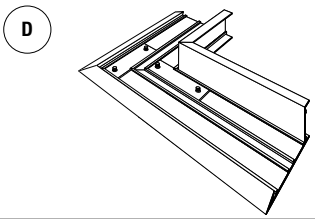
Field-Mitered Corner Assembly

Perimeter trim is mitered in the field and connected securely with two splice plates.

Inside Corner



Outside Corner



For More Information

Product literature
Data sheet: IC538

Online tools
usgdesignstudio.com

Recycled Content
0% recycled content; 100% recyclable.

Footnotes
1. Dependent on location; contact your USG representative.

Curvatura™ 3-D System

Two-Directional Curvatura System with Perforation/
Curvatura 15/16″ Suspension System

LEED Credits

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance[2]
●	●	●				●

Features and Benefits

– Create dramatic three-dimensional curved designs that combine shape, texture and lighting.
– Curved main tee segments and flexible panels provide endless combinations.
– Available in two configurations: One-Directional Curvatura™ with 2′x 6′ infill panels, and Two-Directional Curvatura™ with 2′x 2′ panels.
– Two suspension profiles: traditional Curvatura (15/16″ grid profile) and Curvatura Elite (9/16″ profile with 5/32″ reveal).
– Custom colors available.

Applications

– Contemporary office environments
– Entertainment, gaming
– High-bay areas
– Retail space

One-Directional Curvatura

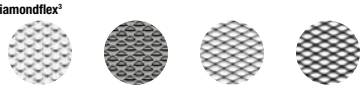
One-Directional Curvatura Elite

Call 888 874.2450 for color samples
See Metal Finishes selector for panel, suspension and trim color availability.

Painted Metals

Flat White | Silver Satin 002 | Metallic Copper 1690 | Metallic Gold 1691 | Metallic Oyster 1652

Diamondflex[3]



Louvered Bright White | Louvered Bright Silver | Sheer Bright White | Sheer Bright Silver

Wood Tones[3]

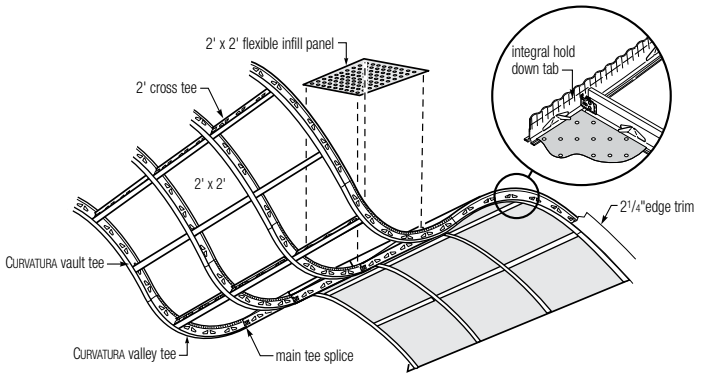
Cherry | Maple | Oak

		Product Information	
		Materials	**Finishes**
		Panel: Available smooth or perforated, in Painted Metals and Diamondflex expanded metal.[3] 2′x2′ TRANSLUCENTS™ panels are also available.	Available with perforation and/or embossing

Perspective

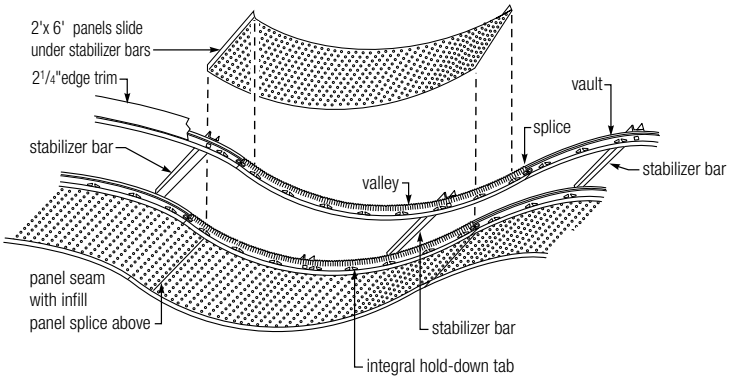
Two-Directional System

2′ x 2′ Panels



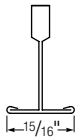
One-Directional System

2′ x 6′ Panels

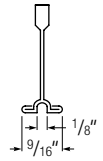


Available Grid Profile

Standard



CURVATURA Elite



Curved Components (Available as vaults and valleys)

10′ Length	8′ Length	6′ Length	4′ Length
R = 229″	R = 183″	R = 138″	R = 92″
R =153″	R = 122″	R = 92″	R = 61″
R = 115″	R = 92″	R = 69″	R = 46″
R = 77″	R = 61″	R = 46″	R = 31″

For More Information

Product literature
System brochure: IC399
Data sheet: IC310
Design selector: IC36108
Perforation selector: IC425

Online tools
– usgdesignstudio.com
– usg.com/resources/onlinetools/CurvaturaDesignCenter.jsp

Recycled Content
CURVATURA aluminum panels: 70% recycled content; Steel panels: 25% recycled content. Suspension: 25% recycled content.

Footnote
1. Dependent on location; contact your USG representative.
2. Requires perforation and ACOUSTIBOND backer.
3. Diamondflex and Wood Tone panels available for Two-Directional CURVATURA.

Geometrix™

Geometrix 3″ Flat Panels and 3″ Wedge Panels/
Donn Centricitee DXT Suspension System

LEED Credits

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance[2]
●	●	●				●

Features and Benefits

– Multiple profiles and depths lend new dimension to ceiling and wall design.
– Panel depths ranging from 1-1/4″ to 3″ allow a spectrum of possibilities, from subtle textures to bold rhythms.
– 2′ x 2′ lay-in panels are compatible with 9/16″ and 15/16″ Donn® brand suspension systems.
– Solid or perforated panels.
– Available in Flat White, Silver Satin and custom colors for design versatility.

Applications

– All commercial applications

Call 888 874.2450 for color samples

Painted Metals

Flat White

Silver Satin
002

Product Information

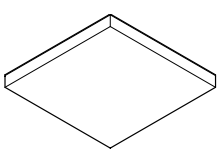
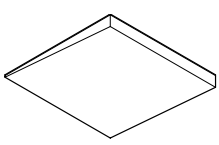
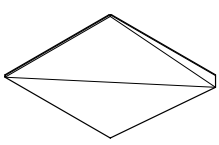
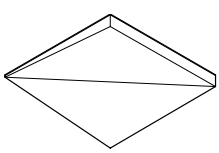
Materials	Size and Weight	Finishes
Panels: Aluminum[3]	Panels: 2′ x 2′; Panel weight (for 3″ deep flat panel): 0.75 lbs./sf.	Panels are available in smooth metal or in a choice of five perforated patterns (C375, D250, D375, C062 and C062A). A black ACOUSTIBOND® backer is included on all perforated panels unless otherwise specified. ACOUSTIBOND backer is also available in white.

Acoustics

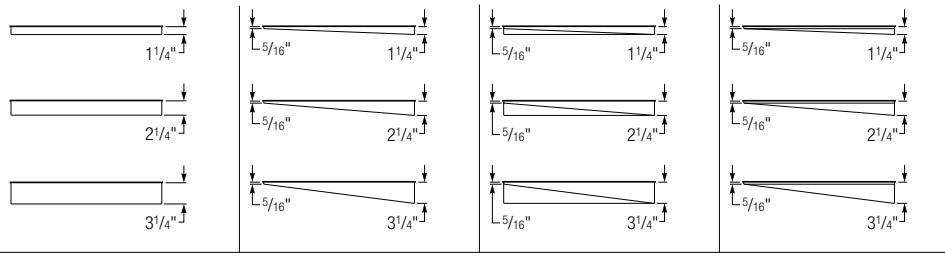
Description	Optional Acoustical Material	Sound Rating – NRC	
		Perforation A062	Perforation A116
Perforated panel	ACOUSTIBOND backer	.65	.70
Perforated panel	1-1/2″, 6 lb. density fiberglass	.90	.95
Perforated panel	2″, .75 lb. fiberglass in poly bag	.85	.90

Panels

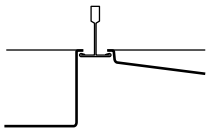
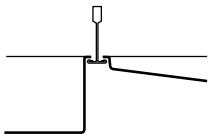
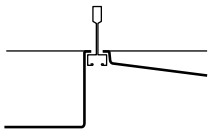
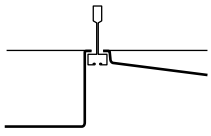
Configurations

Flat[4,5]	Wedge[4]	Inside Wedge Corner	Outside Wedge Corner
			

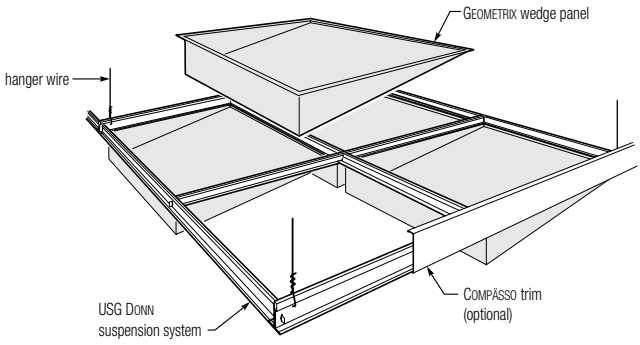
Depths



Edge Details

GEOMETRIX Panels with 15/16″ DX®/DXL™ Suspension	GEOMETRIX Panels with 9/16″ CENTRICITEE™ DXT Suspension	GEOMETRIX Panels with 9/16″ FINELINE® DXF Suspension	GEOMETRIX Panels with 9/16″ FINELINE® 1/8 DXFF Suspension
			

Assembly



For More Information

Product literature
System brochure: IC437
Data sheet: IC424

Recycled content
GEOMETRIX aluminum panels: 70% recycled content.

Online tools
– usgdesignstudio.com
– usg.com/resources/onlinetools/topogeo/index.jsp

Footnotes
1. Dependent on location; contact your USG representative.
2. Requires perforation and ACOUSTIBOND backer.
3. GEOMETRIX panels meet ASTM E84 Class A requirements for Surface Burning Characteristics.
4. Available pre-engineered utility circles accomodate lighting and utilities.
5. Also available with 5/16″ depth.

Geometrix™ Wall-Mount Solution

GEOMETRIX 3″ Wedge Panels

LEED Credits

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance[2]
●	●	●				●

Features and Benefits

– 2′x2′ panels install vertically on walls using a system of purpose-made mounting tracks, installation clips and perimeter trim.
– Create dimensional focal walls that define space and highlight functional areas.
– Available solid or perforated.
– Wall-mount solution also available for CELEBRATION metal panels. See IC508.
– Custom colors available for design versatility.

Applications

– Offices
– Entertainment
– Gaming
– Hospitality
– Transportation terminals

Call 888 874.2450 for color samples

Painted Metals

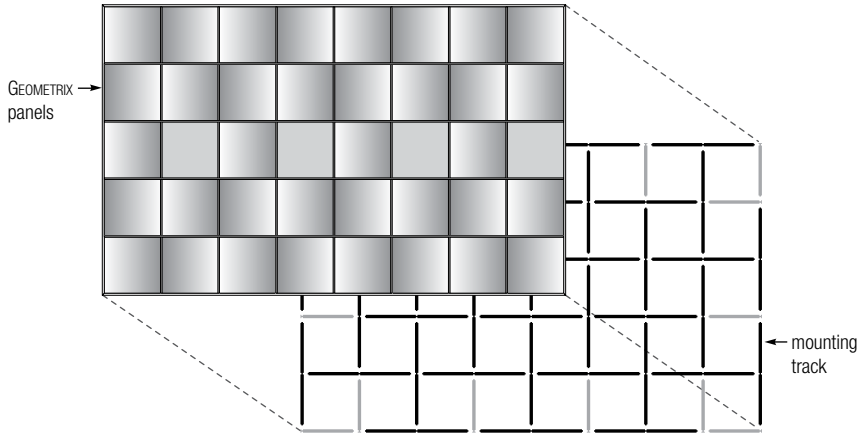
Flat White

Silver Satin 002

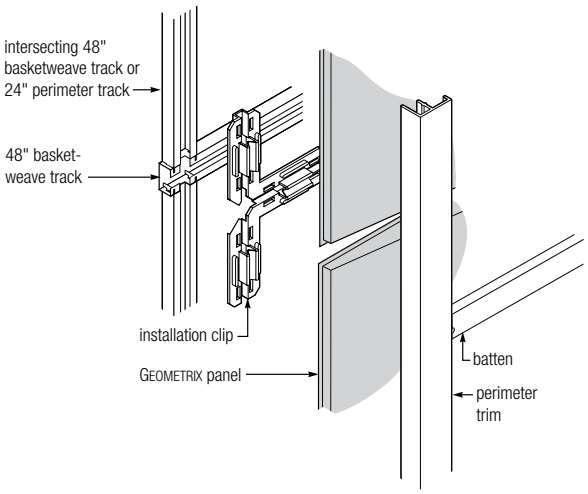
Product Information

Materials	Finishes	Size
Aluminum panels.[3]	Panels are available in smooth metal or in a choice of five perforated patterns (C375, D250, D375, C062 and C062A). Black Acoustibond® backer included on perforated panels unless otherwise specified. Acoustibond backer also available in white.	2′ x 2′

Assembly Overview



Assembly



Acoustics

		Perforation Pattern				
		C062	C062A	C375	D250	D375
		Open Area				
		2%	9%	10%	11%	11%
Panel	**Size**	**Estimated NRC[4]**				
Flat	3″	0.65	0.80	0.85	0.85	0.85
	2″	0.50	0.55	0.65	0.65	0.65
	1″	0.30	0.30	0.40	0.40	0.40
	5/16″	0.20	0.20	0.20	0.20	0.20
Wedge	3″	0.55	0.60	0.65	0.65	0.65
	2″	0.50	0.50	0.50	0.50	0.50
	1″	0.40	0.40	0.40	0.40	0.40
Inside Corner Wedge	3″	0.55	0.65	0.70	0.70	0.70
	2″	0.50	0.55	0.60	0.60	0.60
	1″	0.45	0.45	0.45	0.45	0.45
Outside Corner Wedge	3″	0.50	0.55	0.60	0.65	0.65
	2″	0.40	0.45	0.50	0.50	0.50
	1″	0.35	0.35	0.35	0.35	0.35

For More Information

Product literature
Data sheet: IC540
Tip sheet: IC508

Online tools
– usgdesignstudio.com
– usg.com/resources/onlinetools/topogeo/index.jsp

Recycled content
Geometrix aluminum panels: 70% recycled content. Mounting track: 25% recycled content.

Wall Flatness
As detailed, the wall should be flat, within about 1/2″; any out-of-flat condition will be noticeable along the bottom edge of perimeter trim. With shimming and framing, the wall could be almost any condition, so long as the perimeter appearance can be made subjectively acceptable.

Wall Applications
The systems described here are for wall applications only. Geometrix panels should not be installed as a ceiling using wall-mount hardware. Ceiling applications require an approved Donn® brand suspension system.

Interior Use Only
Wall-mounted system desinged for interior applications only.

Impact Protection
Because Geometrix panels were designed for ceiling applications and not to withstand impacts from foot traffic, rolling carts and other incidental contact, USG strongly recommends that panels be installed above or away from floor activity.

Footnotes
1. Dependent on location; contact your USG representative.
2. Requires perforation and Acoustibond backer.
3. Geometrix panels meet ASTM E84 Class A requirements for Surface Burning Characteristics.
4. NRC estimated based on testing per ASTM C423, Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.

Patents
Patents pending.

GridWare™

GridWare Suspension System (GWDXW) with 2′x 2′ Cells in Custom Color/
8″ Compässo Perimeter Trim in Matching Color

LEED Credits

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

Features and Benefits

– Open-cell suspension system painted 360°.
– Main tees punched with only the necessary cross tee holes for a clean look.
– Available in three standard grid profiles: 9/16″, 15/16″, and 1-1/2″.
– Simple system readily accommodates standard 2′ x 4′ and 2′ x 2′ lay-in light fixtures and air diffusers.
– Custom colors available.

Applications

– Accent areas
– Hospitality
– Retail spaces

Call 888 874.2450 for color samples

Painted Metals

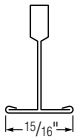
Flat White | Silver Satin 002 | Flat Black

Product Information

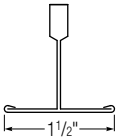
Materials	Typical Sizes	Finishes
Double-web, hot-dipped galvanized steel body and steel cap with chromated cross-tee clip.	2′ x 2′ module; 2′ x 2′, 2′ x 4′ and 4′ x 4′ cells	– GWDX stocked in Flat Black, Flat White, and Silver Satin pre-painted, baked polyester paint finishes with exposed chromate cross tee clips; touch-up paint is available to field-paint cross tee clips to match the finish. Spray-painted, baked polyester finish with 100% tee coverage available as a special order. – GWDXW and GWDXT available as a special order only; finish is spray-painted, baked polyester with 100% tee coverage.

Face Options

GWDX



GWDXW

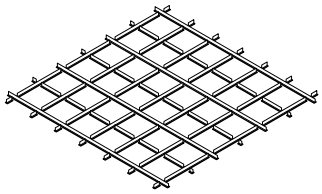


GWDXT

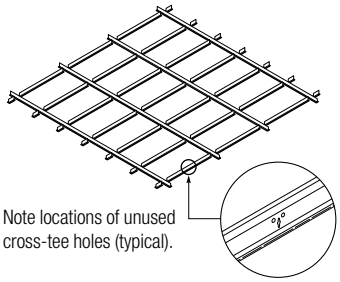
GWM9 – Wall Angle

Design Options

2′ x 2′ Openings

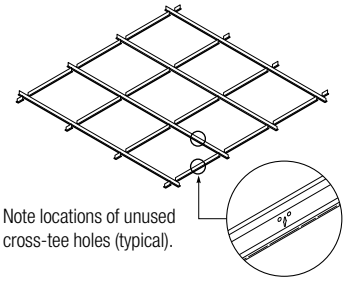


2′ x 4′ Openings



Note locations of unused cross-tee holes (typical).

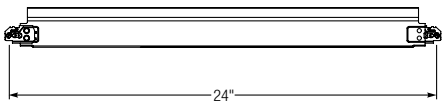
4′ x 4′ Openings



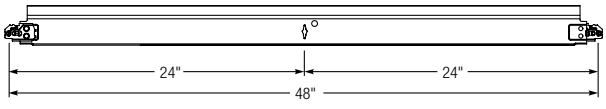
Note locations of unused cross-tee holes (typical).

GridWare Components

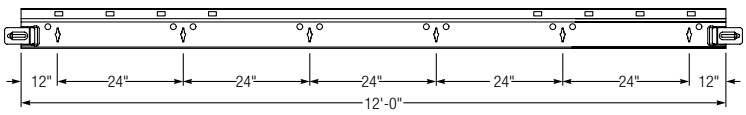
24″ Cross Tee



48″ Cross Tee



12′ Main Tee



Exposed Hanger Solutions
For ceiling islands and other installations with exposed hanger wires, USG offers stainless steel wire and rope wire with a variety of connectors for an attractive alternative to standard 12-gauge wire. See installation guide IC453 for more information.

For More Information

Product literature
System brochure: IC35104
Data sheet: IC312

Online tools
usgdesignstudio.com

Recycled content
GridWare suspension: 25% recycled content.

Footnotes
1. Dependent on location; contact your USG representative.

Libretto™ Gridless Metal Ceiling System

LIBRETTO Serpentine Island with Contoured Perforation

LEED Credits

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

Features and Benefits

– Collaborate with USG to create a custom design tailored to your space.
– Individually fabricated aluminum panels interconnect to form a continuous, uninterrupted plane.
–Carrier system is concealed and custom-fit, with choice of three perimeter profiles to achieve proper scale.
– Now you can request a contoured pattern that follows the shape of your LIBRETTO™ ceiling, specify a custom graphic or select a standard pattern for a square or rectangular ceiling.

Applications

– Contemporary office environments
– Entertainment, gaming
– High-bay areas
– Retail space

Call 888 874.2450 for color samples

Painted Colors

Flat White

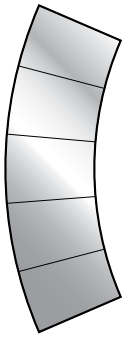
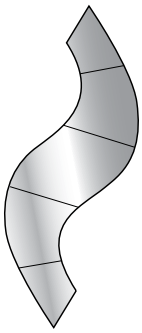
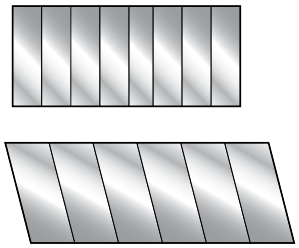
Silver Satin 002

Product Information

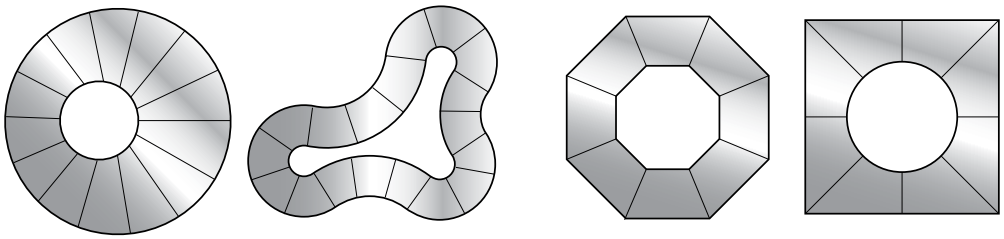
Materials	Perimeter Profile	Plenum Depth	Finishes
Panels: Aluminum Carrier system: Cold-rolled steel Edge profile: Cold-rolled steel	4″, 6″ or 8″ in height.	Minimum 12″, with 8″ clearance above top edge of perimeter profile.	Panels available perforated with a contoured pattern that follows the shape of your ceiling, a custom graphic pattern, or a standard pattern for a square or rectangular ceiling. Optional black or white ACOUSTIBOND® backer available. Smooth, unperforated metal also available.

Details

Design Concepts

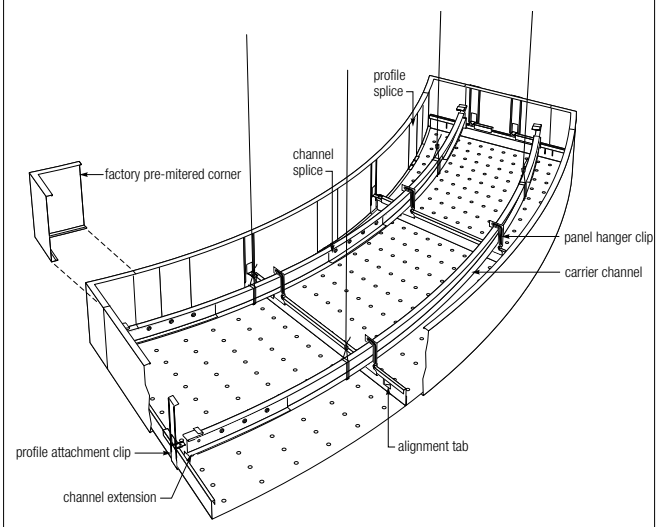
Radial	Crescent	Serpentine	Four-sided Polygon
			

Torus



Assembly

View from Above



Exposed Hanger Solutions
For ceiling islands and other installations with exposed hanger wires, USG offers stainless steel wire and rope wire with a variety of connectors for an attractive alternative to standard 12-gauge wire. See installation guide IC453 for more information.

For More Information

Product literature
System brochure: IC525
Data sheet: IC526

Online tools
usgdesignstudio.com

Recycled content
LIBRETTO aluminum panels: 70% recycled content; LIBRETTO suspension and trim: 25% recycled content.

Footnotes
1. Dependent on location; contact your USG representative.

Patents
Patents pending.

Panz®

Panz Metal Ceiling Panels (FL edge) in Flat White/
Donn Centricitee DXT Suspension System

LEED Credits

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance[2]
●	●	●				●

Features and Benefits

- Simple lay-in design provides 100% access.
- Acoustibond® sound backer produces .65 NRC without additional acoustical material when panels are installed within an enclosed plenum (minimum plenum depth: 18″).
- Available in numerous perforation patterns.
- Creates reveal edge on field-cut panel.
- Available with same edge details as USG acoustical panels.

Applications

- Computer and utility rooms
- Entertainment
- Gaming
- Frequently accessed plenums

Call 888 874.2450 for color samples
See IC415 for color and perforation availability.

Diamondflex[3]

Louvered Bright White

Louvered Bright Silver

Sheer Bright White

Sheer Bright Silver

Painted Metals

Flat White

Silver Satin 002

Metallic Copper 1690

Metallic Gold 1691

Metallic Oyster 1652

Premium Metals

Aged Copper 1017

Etched Ice Dark 1016

Etched Ice Light 1015

Wood Tones

Cherry

Maple

Oak

Anodized Metals

Brushed Aluminum PIA12

Polished Aluminum PM61

Polished Brass PM21

Satin Chrome PM614

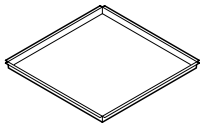
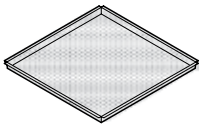
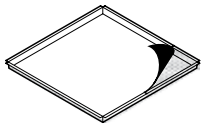
Product Information

Materials	Typical Sizes	Finishes
Panels: Aluminum	2′ x 2′, 2′ x 4′, 4′ x 4′	2′ x 2′ panels available with perforation and/or embossing.

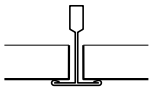
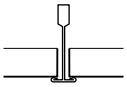
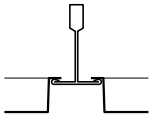
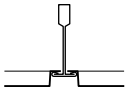
Acoustics

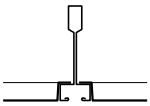
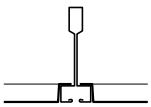
Description	Optional Acoustical Material	Sound Rating – NRC	
		Perforation A062	Perforation A116
Perforated panel	ACOUSTIBOND backer[4]	.65	.70
Perforated panel	1-1/2″, 6 lb. density fiberglass	.90	.95
Perforated panel	2″, .75 lb. fiberglass in poly bag	.85	.90

Panels

Smooth Panel	Perforated Panel	Perforated Panel with ACOUSTIBOND[3] Backer
		

Edge Details

Square Edge with 15/16″ DX®/DXL™ Suspension	Square Edge with 9/16″ CENTRICITEE™ DXT Suspension	Shadowline Edge with 15/16″ DX/DXL Suspension	Fineline Edge with 9/16″ CENTRICITEE DXT Suspension
			

Fineline Edge with 9/16″ FINELINE® DXF Suspension	Fineline Edge with 9/16″ FINELINE® 1/8 DXFF Suspension
	

For More Information

Product literature
System brochure: IC415
Data sheet: IC314

Online tools
usgdesignstudio.com

Light reflectance
Flat White: LR-0.8
(less with perforations).

Recycled content
PANZ aluminum panels: 70% recycled content.

Footnote
1. Dependent on location; contact your USG representative.
2. Requires perforation and ACOUSTIBOND backer.
3. ACOUSTIBOND backer not standard with DIAMONDFLEX panels.

Panz® Planks and Large Sizes

600mm x 1050mm Panz Field Panels, 400mm x 1800mm Panz Channel Panels

LEED Credits

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance[2]
●	●	●				●

Features and Benefits

- Range of sizes for large-module ceilings.
- Available in numerous painted colors and Wood Tones, and a range of perforation patterns.
- Simple lay-in design provides 100% access.
- Perforated panels with Acoustibond® sound backer produce .65 NRC without additional acoustical material (enclosed plenum, minimum depth 18″).
- Available with same edge details as USG acoustical panels.

Applications

- Computer and utility rooms
- Entertainment
- Gaming
- Frequently accessed plenums

Call 888 874.2450 for color samples

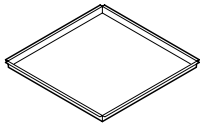
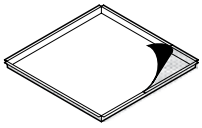
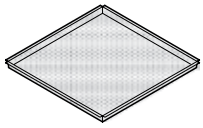
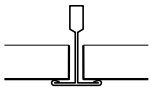
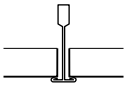
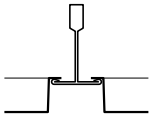
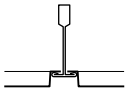
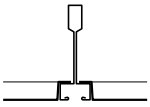
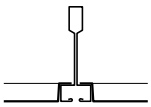
See IC415 for color and perforation availability.

Painted Metals

Flat White | Silver Satin 002 | Metallic Copper 1690 | Metallic Gold 1691 | Metallic Oyster 1652

Wood Tones[3]

Cherry | Maple | Oak

	Product Information			
	Materials	**Typical Sizes**		
	Aluminum Panels	1′ x 4′, 1′ x 5′, 20″ x 60″, 2′ x 6′, 2′ x 8′, 30″ x 60″,		
Acoustics	**Description**	**Optional Acoustical Material**	**Sound Rating – NRC**	
			Perforation A062	**Perforation A116**
	Perforated panel	ACOUSTIBOND backer	.65	.70
	Perforated panel	1-1/2″, 6 lb. density fiberglass	.90	.95
	Perforated panel	2″, .75 lb. fiberglass in poly bag	.85	.90
Panels	**Smooth Panel**	**Perforated Panel – ACOUSTIBOND Backer Standard**	**Perforated Panel (No Backer – Optional)**	
				
Edge Details	**Square Edge with 15/16″ DX®/DXL™ Suspension**	**Square Edge with 9/16″ CENTRICITEE™ DXT Suspension**	**Shadowline Edge with 15/16″ DX/DXL Suspension**	**Fineline Edge with 9/16″ CENTRICITEE DXT Suspension**
				
	Fineline Edge with 9/16″ FINELINE® DXF Suspension	**Fineline Edge with 9/16″ FINELINE® 1/8 DXFF Suspension**		
				

For More Information

Product literature
System brochure: IC415
Data sheet: IC541

Online tools
– usgdesignstudio.com
– usg.planks.pivotinteractive.com

Light reflectance
Flat White: LR-0.8
(less with perforations).

Recycled content
PANZ aluminum panels:
70% recycled content.

Footnote
1. Dependent on location; contact your USG representative.
2. Requires perforation and ACOUSTIBOND backer.
3. Available for 1′x 4′, 1′x 5′, 20″ x 60″ and 2′x 6′ panels.

Paraline®

PARALINE Linear Metal Ceiling System with Field-Applied Custom Paint

LEED Credits

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance[2]
●	●	●				●

Features and Benefits

– Elegant linear metal ceiling system features 12′ long metal pans attached to a specially engineered suspension system.
– Closed-reveal PARALINE II pans are appropriate for exterior ceiling applications under protected soffits.
– Snap-up design offers unlimited access with minimum plenum depth requirements.
– Wind load tested (120 mph) with proper bracing and exterior framing.
– Available with perforated pans for PARALINE II for NRC ratings as high as .95 when backed with fiberglass.

Applications

– Exterior soffits
– High-bay areas
– Retail stores
– Transportation terminals

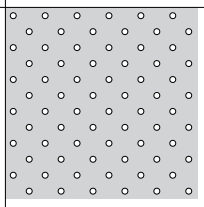
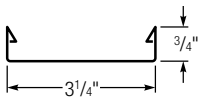
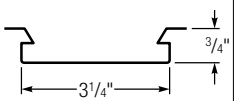
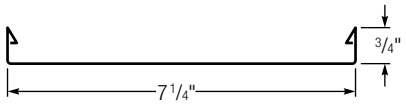
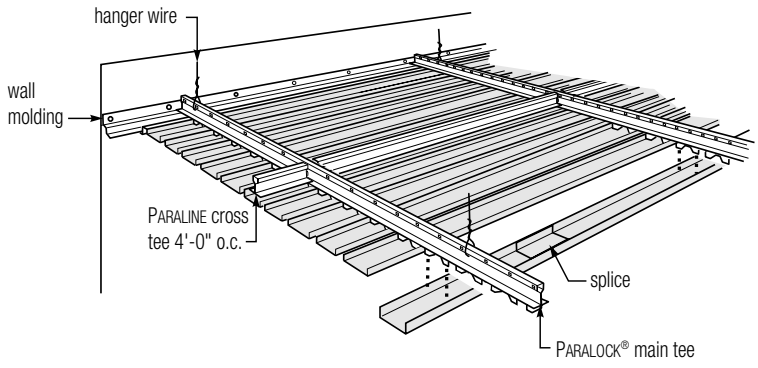
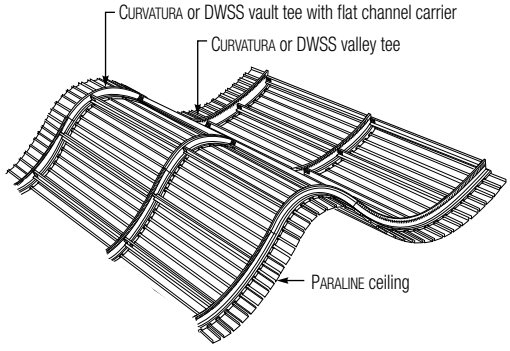
Call 888 874.2450 for color samples

Painted Metals

Flat White | Silver Satin 002 | Metallic Copper 1690 | Metallic Gold 1691 | Metallic Oyster 1652

Anodized Metals

Brushed Aluminum PIA12 | Polished Aluminum PM61

	Product Information		
	Materials	**Typical Sizes**	**Finishes**
	PARALINE I, II, and III: Aluminum	3-1/4″ x 12′, 7-1/4″ x 12′	Perforation available: PARALINE II only.
PARALINE II Perforation Pattern		Round—1/16″ perforations .235 o.c., 5% open area (Perforation shown 50% actual size)	
Details	**PARALINE I**	**PARALINE II**	**PARALINE III**
			
	PARALINE I ceilings use 3-1/4″ wide pans with roll-finished edges. Once assembled, the pans provide an open reveal for excellent acoustical control (sound is absorbed by acoustical material in the plenum).	PARALINE II ceilings maintain the 3-1/4″ wide pan dimension, but are constructed with integral flanges that overlap to form a reveal closure that is appropriate for exterior soffit applications. Perforated available.	PARALINE III ceilings have bolder, 7-1/4″ wide pans for larger-scale applications. Pans have a roll-finished edge to provide the same open reveal as PARALINE I with similar acoustical control.
Perspective			**USG Drywall Suspension System or CURVATURA Suspension For PARALINE Wave Ceilings**
			

For More Information

Product literature
System brochure: IC463
Data sheet: IC315

Online tools
usgdesignstudio.com

Fire-rated designs
UL fire-rated design number D-218 rating for 2-hour or 3-hour restrained or unrestrained assembly and 3-hour unrestrained beam rating.

Light reflectance
Flat White: LR-0.80 (less with perforations and other colors).

Recycled content
PARALINE: 70% recycled content.

Footnote
1. Dependent on location; contact your USG representative.
2. PARALINE II with perforation and fiberglass backing.

Quadra™

QUADRA Crown Ceiling Coffers/
DONN DX/DXL Suspension System

Features and Benefits

– The look of classic coffered architecture with complete accessibility to all ceiling utilities.
– One-piece construction requires no field assembly, reducing installation costs.
– Factory-cut field panel inserts provide acoustical control with minimum installation time.
– Numerous styles complement contemporary and traditional spaces.
– DONN® brand DX®/DXL™ suspension system with matching woodgrain faux finish.

Applications

– Conference areas
– Financial institutions
– Ornate public areas

Call 888 874.2450 for color samples

White

Wood Grain

Cherry Wood | Colby Walnut | Mahogany | Medium Walnut | Natural Oak

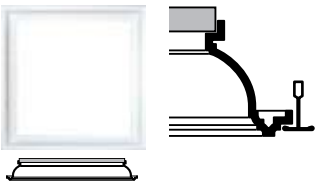
Product Information	
Materials	**Suspension System**
Fiber-reinforced cast gypsum.	DONN DX/DXL intermediate-duty 15/16″ suspension system.

Ceiling Coffers

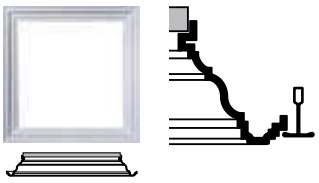
	Size	Item Number	Edge	Surface	Color
Cove	**2′ x 2′**	**QD110**	SL	Smooth	White
	2′ x 2′	**QD120-04**	SL	Woodgrain	Cherry Wood
	2′ x 2′		SL	Woodgrain	Colby Walnut
	2′ x 2′	**QD120-03**	SL	Woodgrain	Mahogany
	2′ x 2′	**QD120-02**	SL	Woodgrain	Medium Walnut
	2′ x 2′	**QD120-01**	SL	Woodgrain	Natural Oak
	4′ x 4′	**QD227**	SL	Smooth	White
				Woodgrain	Cherry Wood
					Colby Walnut
					Mahogany
					Medium Walnut
					Natural Oak
Crown	**2′ x 2′**	**QD100**	SL	Smooth	White
	2′ x 2′	**QD208-04**	SL	Woodgrain	Cherry Wood
	2′ x 2′		SL	Woodgrain	Colby Walnut
	2′ x 2′	**QD207-03**	SL	Woodgrain	Mahogany
	2′ x 2′	**QD206-02**	SL	Woodgrain	Medium Walnut
	2′ x 2′	**QD205-01**	SL	Woodgrain	Natural Oak
	4′ x 4′	**QD217**	SL	Smooth	White
				Woodgrain	Cherry Wood
					Colby Walnut
					Mahogany
					Medium Walnut
					Natural Oak

Panel Designs

Cove
Overall Depth: 4″ Nominal



Crown
Overall Depth: 4″ Nominal



Acoustical Inserts

Size	ECLIPSE™ CLIMAPLUS™ Item Number	MILLENNIA® CLIMAPLUS™ Item Number	Pattern	Color
3/4″ x 17-7/8″ x 17-7/8″	**76652**	**76710**	Crown	White
3/4″ x 41-7/8″ x 41-7/8″	**76651**	**76712**	Crown	White
3/4″ x 19-3/8″ x 19-3/8″	**76653**	**76713**	Cove	White
3/4″ x 43-3/8″ x 43-3/8″	**76654**	**76714**	Cove	White

For More Information

Product literature
Data sheet: IC316

Online tools
usgdesignstudio.com

ASTM E84 surface burning characteristics
Class A
Flame spread: 0
Smoke Developed: 5

UPITT protocol
Non-toxic, all-gypsum composition meets New York City's stringent MEA standards.

Recycled content
Contact Technical Service at 800 USG.4YOU.

Topo™ 3-Dimensional System

Topo System 12 with Clear Translucent Panels/
Donn Topo Suspension System in Silver Satin with Silver Laser Trim

System at a Glance

Transform flat ceiling planes into gently rolling landscapes with pre-formed panels that install easily into the narrow-profile Donn® brand Topo suspension system.

Features and Benefits

– Two system depths (8″ and 12″) create varying ceiling topographies.
– Translucent and opaque Lexan® infill panels in five colors enhance existing lighting for added visual interest.
– Optional pre-engineered utility circles accommodate additional lighting and utility access.

Applications

– All commercial applications

Call 888 874.2450 for color samples

Clear Translucent | Blue Translucent | Glass Green Translucent | White Translucent | White Opaque

Product Information

Materials	Size and Weight	Module Size
Panels: Pre-formed Lexan. Material thickness 0.04″. Suspension system: Extruded aluminum available in color-coordinated finishes. Edge trim system: painted cold-rolled steel.	Panels: 2′ x 2′. System weight: 0.5 lbs./sf.	Full 2′ x 2′ modules only.

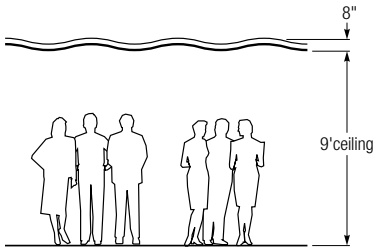
Finishes

Color	Light Transmission	Topo Suspension System Coordinating Colors
Clear Translucent	94%	Silver Satin
Blue Translucent	78%	Topo Blue
Glass Green Translucent	77%	Topo Glass Green
White Translucent	26%	Flat White
White Opaque	8%	Flat White

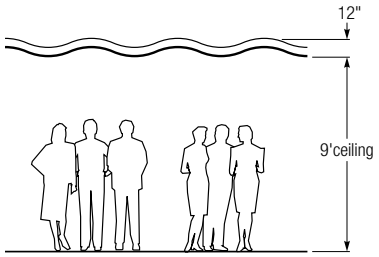
Details

System Profiles

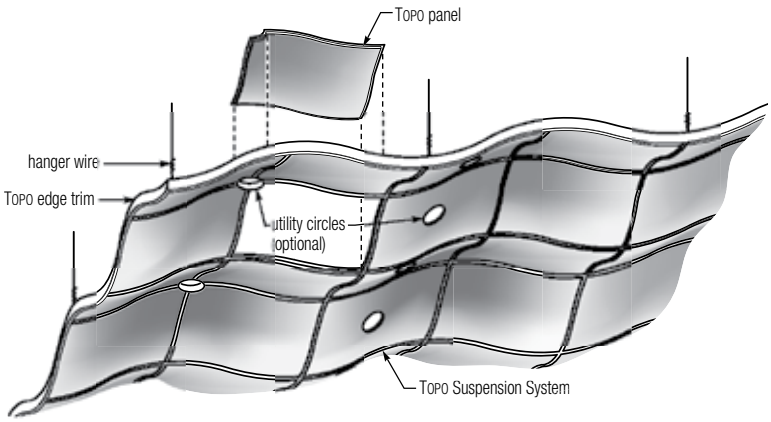
Topo System 8



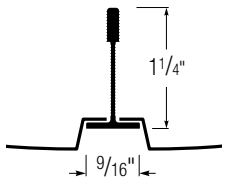
Topo System 12



Assembly (View from Below)



Grid-Panel Interface



Exposed Hanger Solutions
For ceiling islands and other installations with exposed hanger wires, USG offers stainless steel wire and rope wire with a variety of connectors for an attractive alternative to standard 12-gauge wire. See installation guide IC453 for more information.

For More Information

Product literature
System brochure: IC438
Data sheet: IC422

Online tools
– usgdesignstudio.com
– usg.com/resources/onlinetools/topogeo/index.jsp

Recycled content
Topo panels: 0% recycled content.
Topo suspension: 50% recycled content.
Topo trim 25% recycled content.

Code approval
Lexan infill panels meet Class A requirements for flame spread and smoke developed as defined by ASTM E1264, NFPA and IBC (UBC) as tested in accordance with ASTM E 84.

Translucents™

TRANSLUCENTS Luminous Infill Panels/
CENTRICITEE DXT Suspension System

Features and Benefits

– Fully accessible translucent (luminous) infill panels.
– Flexible panels can be used with standard DONN® brand DX®/DXL™ and CENTRICITEE™ DXT suspension systems or the CURVATURA™ 3-D System and GRIDWARE™ suspension systems.
– Available in three finishes: Lexan® (Glass Green Matte and Clear Matte) and FRP Smooth (Natural).
– 2′ x 2′ panels (23-3/4″ x 23-3/4″).
– Class A finish rating.

Applications

– Lobbies
– Contemporary office environments
– Entertainment, gaming areas
– High-bay areas
– Retail stores

Call 888 874.2450 for color samples

Glass Green Matte | Clear Matte | FRP Smooth

	Product Information		
	Materials	**Typical Sizes**	**System Weight**
	0.045″ (FRP Smooth); 0.060″ (Lexan)	2′x 2′ (23-3/4″x 23-3/4″).	Approximately 0.7 lbs. per sq. ft.
Acoustics	This product does not offer any acoustical properties.		
Lighting	Fluorescent strip fixtures should be placed a minimum of 18″ above the ceiling and 18″ o.c. for best results.		
Light transmission	64% (FRP Smooth); 79% (Lexan Glass Green Matte); 85% (Lexan Clear Matte)		
Suspension Systems	Lays into standard DX/DXL and CENTRICITEE DXT suspension systems. Also can be used with the CURVATURA 3-D System and GRIDWARE suspension system.		

For More Information

Product literature
Data sheet: IC406

Online tools
usgdesignstudio.com

Code approval
LEXAN infill panels meet Class A requirements for flame spread and smoke developed as defined by ASTM E1264, NFPA and IBC (UBC) as tested in accordance with ASTM E 84. FRP infill panels meet Class B requirements for flame spread and smoke developed as defined by ASTM 1264 and as tested in accordance with ASTM E 84. (40/175) USG FRP infill panels also meet Class A requirements of NFPA and IBC (UBC) as interior finishes, not to be part of an air supply/return system.

Weight
0.625 lb./sq. ft. (FRP Smooth)
0.374 lb./sq. ft. (Lexan Glass Green Matte and Clear Matte)

Recycled content
Lexan panels: 0% recycled content, 100% recyclable.

Transparencies™

TRANSPARENCIES Luminous Ceiling System

Features and Benefits

– Fully accessible luminous ceiling system provides the aesthetic of sunlit glass block with just a fraction of the weight, cost, and installation time of real glass.
– Panels consist of nine injection-molded 8″ x 8″ blocks, factory assembled into a 2′ x 2′ lay-in panel for fast installation and full accessibility.
– Special DONN® brand CENTRICITEE™ DXT suspension system is texturized to create “mortar joints.”
– 8″ x 8″ highlighters, available in five translucent colors, change the color of an individual block or an entire panel.

Applications

– Accent areas
– Grocery stores
– Libraries
– Retail stores

Call 888 874.2450 for color samples

Highlighters

Red Green Yellow Blue Orange

Product Information

Materials	Finishes	Typical Sizes	Module Size	Weight
Blocks: 100% acrylic. Grid: Steel.	Panels: Clear Highlighters: Red, Green, Yellow, Blue, and Orange—change color of one block (8″ x 8″) or the entire panel (2′ x 2′).	2′ x 2′	Full 2′ x 2′ modules only.	Approximately 1-1/2 lbs. per sq. ft.

Plenum Depth

Plenum depth requirements are generally a function of lamp spacing. The minimum recommended plenum depth for uniform lighting distribution is 18″, measured from the bottom of the fluorescent tubes to the bottom of the grid.

Acoustics

If noise reduction is vital, adjacent ceiling, wall, and floor materials should be chosen with consideration of their acoustical properties.

Lighting

Fluorescent strip fixtures should be placed a minimum of 18″ above the ceiling and 18″ o.c. for best results.

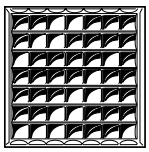
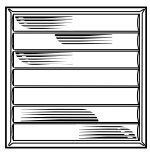
Grid Layout

Each 2′ x 2′ TRANSPARENCIES panel consists of nine 8″ simulated glass block squares spaced 9/16″ apart. Center lines of main and cross runner T-bar webs are exactly on module lines.

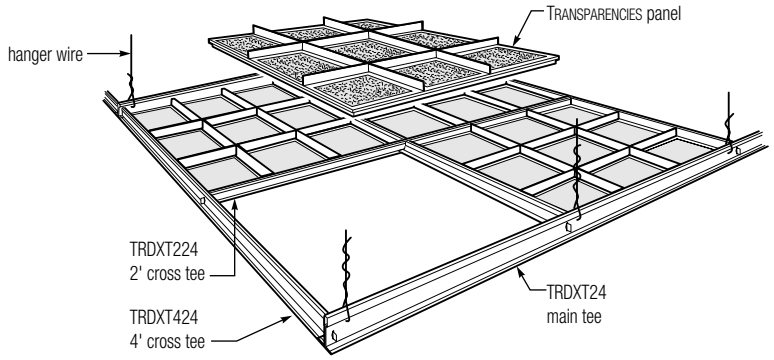
Code Approval

Permitted for use where Class 1 finish materials are required under the provisions of Chapter 8 (1997) of the Uniform Building Code. The roll-formed grid is Class A and non-combustible. Load limits of the grid exceed those imposed by the TRANSPARENCIES system when installed in accordance with manufacturer instructions.

Patterns

Ice Cube	Icicle	Melting Ice	Crushed Ice
			

Perspective



Exposed Hanger Solutions
For ceiling islands and other installations with exposed hanger wires, USG offers stainless steel wire and rope wire with a variety of connectors for an attractive alternative to standard 12-gauge wire. See installation guide IC453 for more information.

For More Information

Product literature
Data sheet: IC324

Online tools
usgdesignstudio.com

Recycled content
Contact Technical Service at 800 USG.4YOU.

WireWorks™

USG

WireWorks Open-Cell Ceiling Panels, Weave Pattern/
GridWare GWDX Suspension System in Silver Satin

LEED Credits

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

Features and Benefits

– Metal, woven lay-in panels with powder-coated finish are abuse resistant and highly durable.
– Four cell sizes offer flexibility to meet design and budget needs.
– Combine with the GridWare™ suspension system to create custom ceiling system.
– Easy installation into standard Donn® brand suspension systems.
– Easily accommodates lightweight signage.
– Custom colors available.

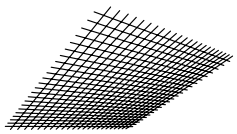
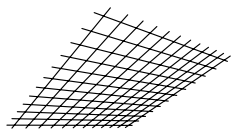
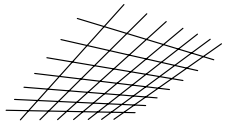
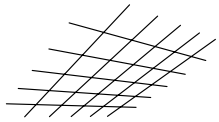
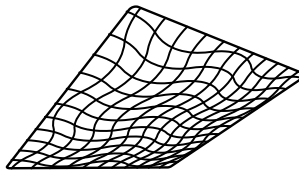
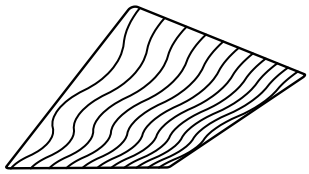
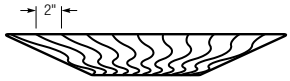
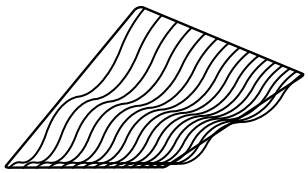
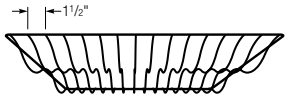
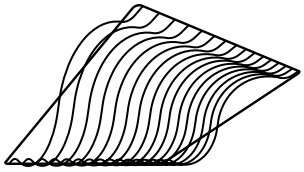
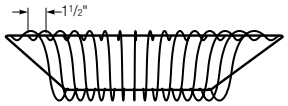
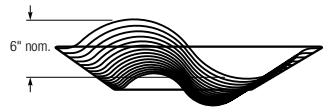
Applications

– Accent areas
– Educational
– Health care
– Retail stores

Call 888 874.2450 for color samples

High-Gloss White

Chrome

		Product Information			
		Materials	**Typical Sizes**	**Wire Thickness**	
		Robotically welded steel wire.	2′ x 2′	Panels are 1/8″; Forms are 3/16″.	
WireWorks Ceiling Panels 2′ x 2′ 1/8″ Wire		**1″ x 1″ Cells**	**2″ x 2″ Cells**	**3″ x 3″ Cells**	**4″ x 4″ Cells**
					
WireWorks Forms 2′ x 2′ 3/16″ Wire	**Weave**	**Pattern**	**Front Profile**		**Side Profile**
					
	Ripple				
	Small Wave				
	Big Wave				

For More Information

Product literature
System brochure: IC34103
Data sheet: IC325

Online tools
usgdesignstudio.com

Recycled content
WireWorks panels: 25% recycled content

Metric equivalents
Contact Technical Service for additional information.

Footnotes
1. Dependent on location; contact your USG representative.

Go Your Own Way

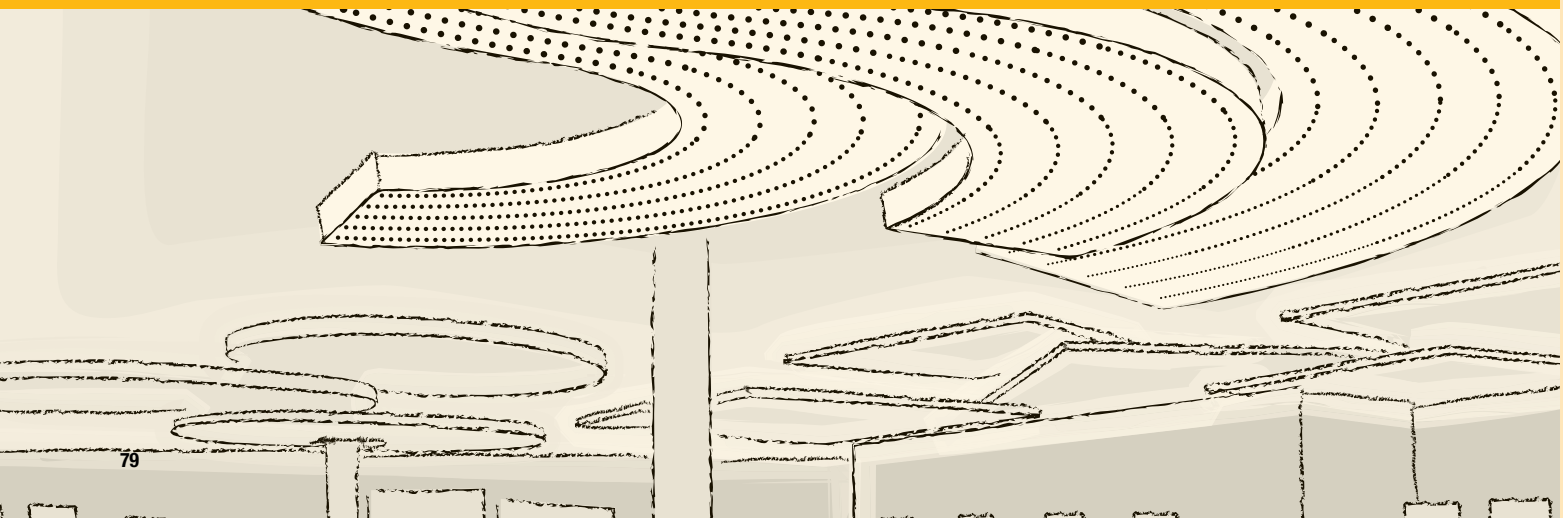
This exciting new ceiling system creates islands, canopies, radial ceilings and other dynamic shapes that define space and architectural features – all based on your own design concept! Collaborate with USG to tailor a ceiling to the shape of your space, and we'll bring it to reality with custom-manufactured components that fit together with precision.

LIBRETTO Overlapping Serpentine Islands with Contoured Perforation and White ACOUSTIBOND Backer

Libretto™ Gridless Metal Ceiling System

The Libretto™ gridless metal ceiling system features individually fabricated aluminum panels that interconnect to form a continuous, uninterrupted plane supported by a concealed, custom-fit carrier system. Now you can highlight the curves and angles of your Libretto ceiling with perforations that follow the contours of your unique design.

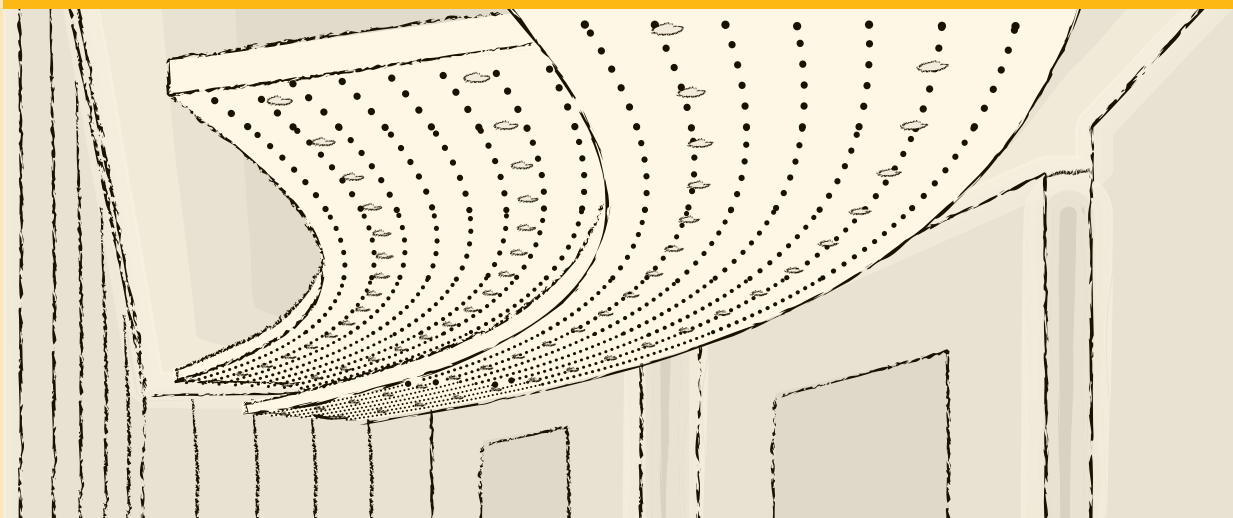
LIBRETTO Island with Custom Perforation and White ACOUSTIBOND Backer



Radial Applications

Made with the latest computer-controlled manufacturing technology, Libretto ceilings offer unprecedented accuracy, ensuring that even the largest assemblies provide a seamless fit. Design expansive concentric and multi-level radial designs with confidence, bringing intimacy and interest to large spaces such as amphitheaters, showrooms and auditoriums.

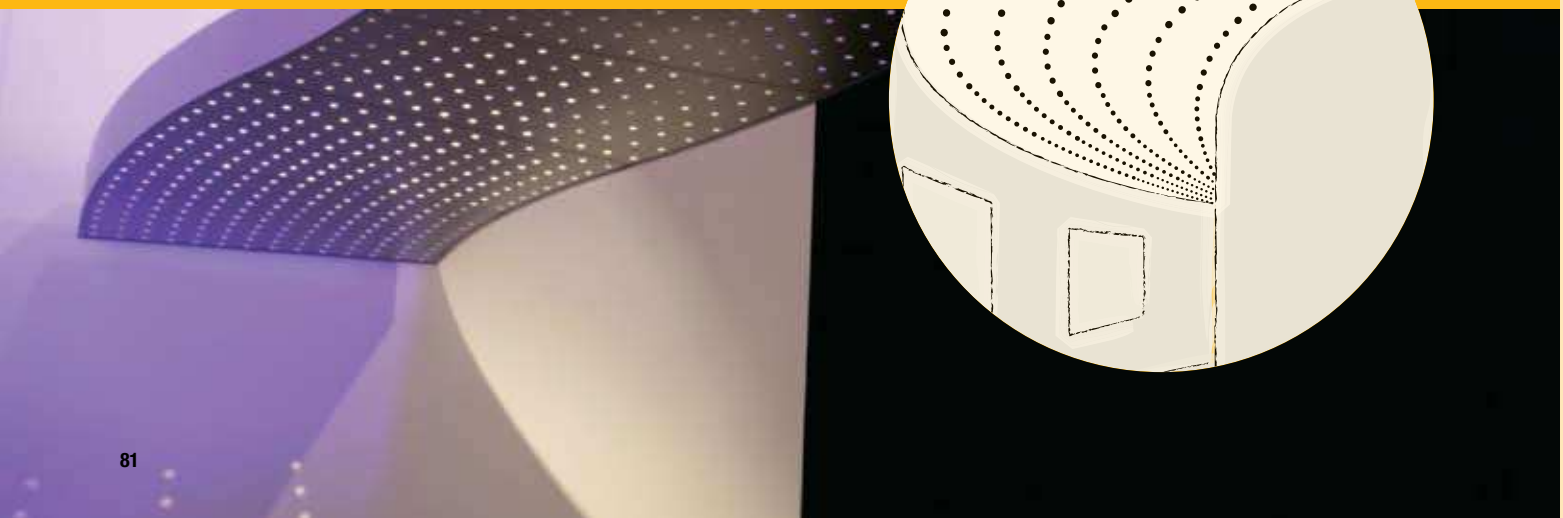
LIBRETTO Radial Island with Contoured Perforation and White ACOUSTIBOND Backer



Follow the Contours of Your Unique Design

Each assembly is manufactured for turnkey installation and delivered complete, assuring that the installation looks just as you envisioned.

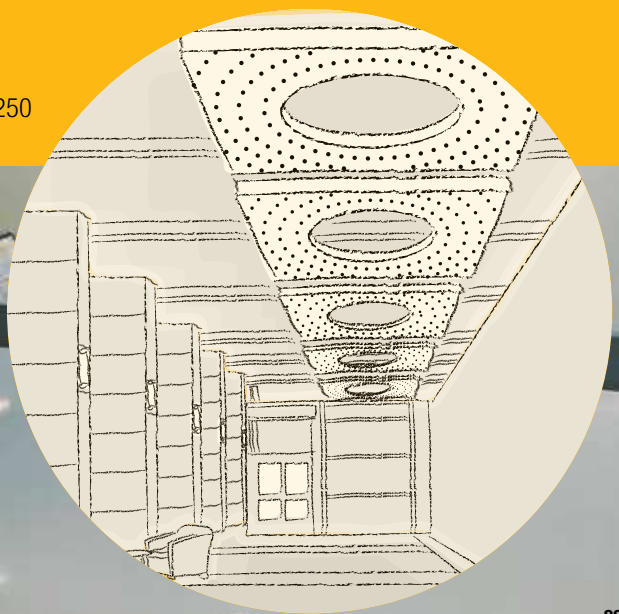
LIBRETTO Overlapping Serpentine Islands with Contoured Perforation and White ACOUSTIBOND Backer



Tandem Islands

Libretto ceilings provide an excellent solution for creating interest in conference rooms, retail spaces and reception areas. The shape and perforation pattern is fully customizable, allowing you to highlight functional zones, echo the shape of workstations or open floor area, and draw attention to architectural details.

LIBRETTO Rectangular Islands with Standard Perforation Pattern D250



Multiple Islands

Enhance visual energy by repeating and nesting shapes. Align multiple islands to accentuate linear space and provide wayfinding. Or, group islands in tandem to break up bland expanses with geometric interest. Islands may also be positioned at varying heights to reflect the scale of high spaces.

LIBRETTO Overlapping Serpentine Islands with Contoured Perforation and White ACOUSTIBOND Backer

Acoustical Ceilings

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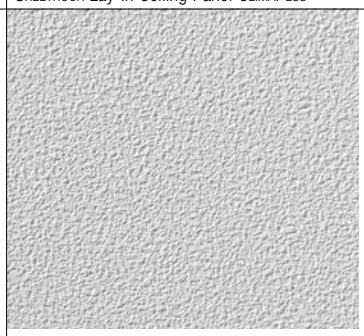
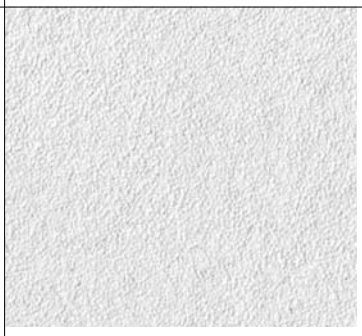
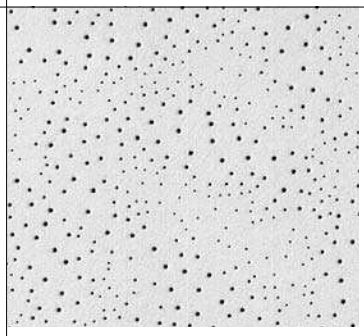
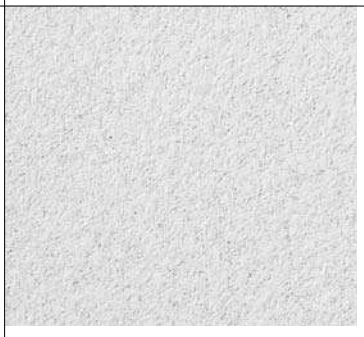
Page	
130	Aspen
132	Astro *ClimaPlus*
134	Brio *ClimaPlus*
136	Clean Room *ClimaPlus*
138	Eclipse *ClimaPlus*
140	Eclipse *ClimaPlus* Illusion and Pedestals
142	"F" Fissured
144	Fissured
146	Fresco *ClimaPlus*
148	Frost
150	Frost *ClimaPlus*
152	Glacier
154	Halcyon *ClimaPlus*
156	Halcyon *ClimaPlus* Planks and Large Sizes
158	Logix Integrated Ceiling Systems
160	Mars *ClimaPlus*
162	Mars *ClimaPlus* High-NRC
164	Millennia *ClimaPlus*
166	Millennia *ClimaPlus* High-NRC
168	Olympia Micro *ClimaPlus*
170	Pebbled *ClimaPlus*
172	Premier Hi-Lite *ClimaPlus*
174	Premier Nubby *ClimaPlus*
176	Radar
178	Radar *ClimaPlus*
180	Radar *ClimaPlus* Illusion
182	Radar *ClimaPlus* High-CAC, High-NRC
184	Radar Ceramic *ClimaPlus*
186	Renditions Animations Face-Routed Ceiling Panels
188	Renditions Boundaries Face-Routed Ceiling Panels
190	Rock Face *ClimaPlus*
192	Sandrift *ClimaPlus*
194	Sheetrock Lay-In Ceiling Panel *ClimaPlus*
196	Summit *ClimaPlus*
198	Touchstone *ClimaPlus*

Textures

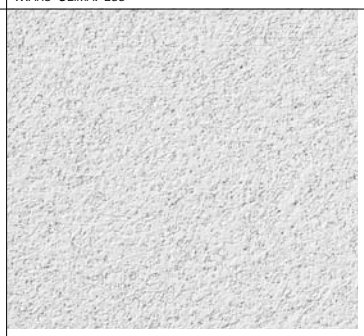
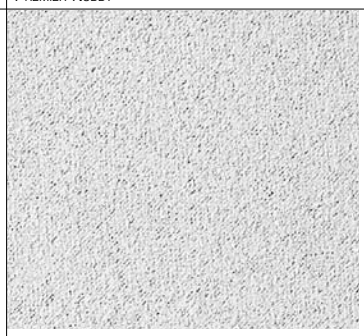
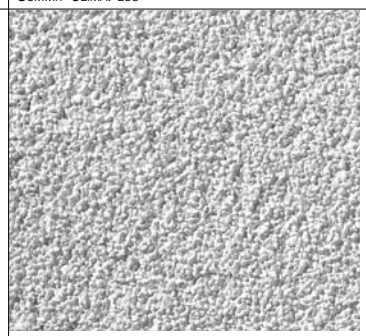
Please call 888 874.2450 to request a sample.

Listed Alphabetically

	Clean Room *ClimaPlus* Class 100	Sheetrock Lay-In Ceiling Panel *ClimaPlus*	
Smooth			
	Page 136	Page 194	
	Astro *ClimaPlus*	Clean Room *ClimaPlus* Class 10M-100M	Eclipse *ClimaPlus*
Fine			
	Page 132	Page 136	Pages 138–141
	Frost	Frost *ClimaPlus*	Halcyon *ClimaPlus*
			
	Page 148	Page 150	Page 154–157

Listed Alphabetically

Fine

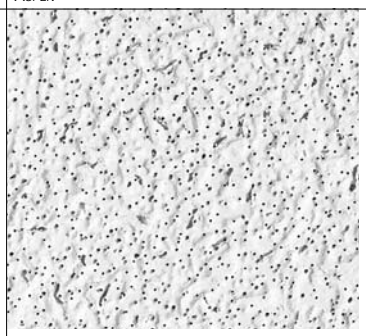
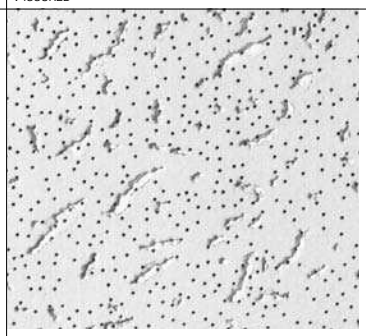
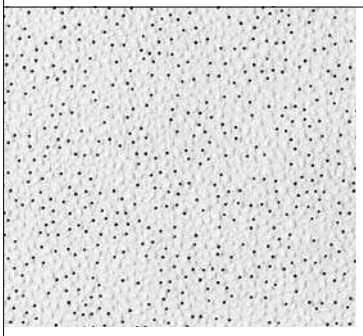
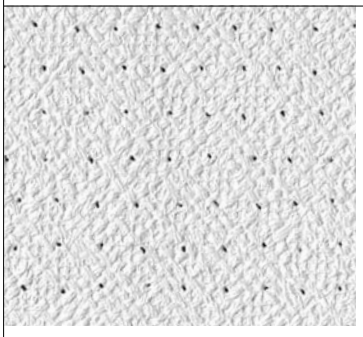
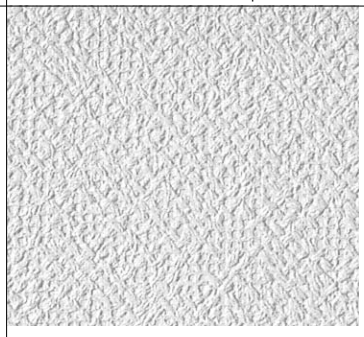
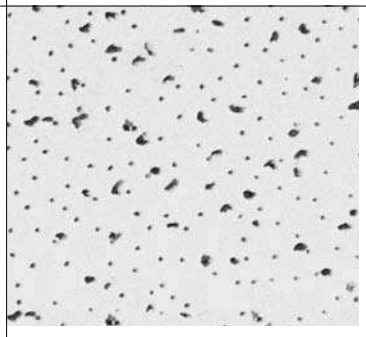
Mars *ClimaPlus*	Millennia *ClimaPlus*	
		
Pages 160–163	Pages 164–167	
Olympia Micro *ClimaPlus*	Premier Nubby	Summit *ClimaPlus*
		
Page 168	Page 174	Page 196

Textures

Please call 888 874.2450 to request a sample.

Listed Alphabetically

Medium

Aspen	"F" Fissured	Fissured
		
Page 130	Page 142	Page 144
Pebbled *ClimaPlus*	Premier Hi-Lite *ClimaPlus* Kapok Perforated	Premier Hi-Lite *ClimaPlus* Kapok Unperforated
		
Page 170	Page 172	Page 172
Premier Hi-Lite *ClimaPlus* Twill Perforated	Premier Hi-Lite *ClimaPlus* Twill Unperforated	Radar
		
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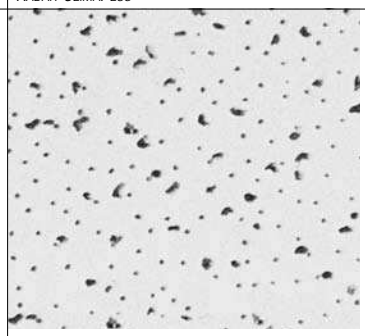
Listed Alphabetically

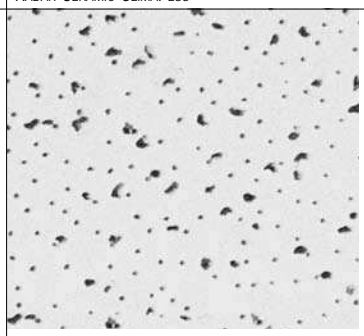
Medium

RADAR *CLIMAPLUS*



Pages 178–183

RADAR CERAMIC *CLIMAPLUS*



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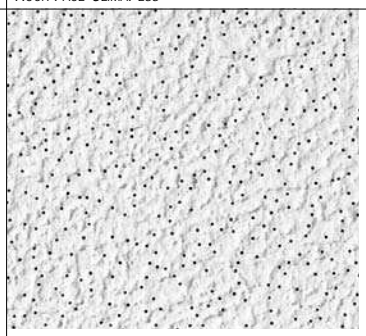
ROCK FACE *CLIMAPLUS*



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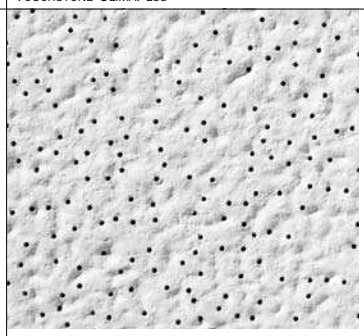
SANDRIFT *CLIMAPLUS*

Page 192

TOUCHSTONE *CLIMAPLUS*



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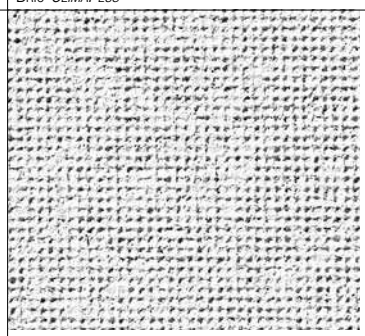
Heavy

BRIO *CLIMAPLUS*



Page 134

FRESCO *CLIMAPLUS*

Page 146

GLACIER

Page 152

Light Reflectance

The Light Reflectance selector identifies USG ceiling panels that efficiently reflect light within a space to enhance indirect lighting, reduce energy consumption and create a warm, luminous aesthetic. Measured per ASTM E1477[1], LR value represents the percentage of light reflected from the surface of a material. The industry average for panels is LR .70 to .80, and values above LR .85 are considered high. USG offers numerous panels with LR values at these levels, including Mars *ClimaPlus*, Radar Illusion and Radar *ClimaPlus* Illusion with LR .89.

Choosing high-LR ceiling panels is a great way to improve the utility and comfort of the spaces you design and make your projects bright and inviting. Indirect lighting, combined with high-LR panels, can eliminate dark, shadowy areas and too-bright hot spots, improving the look and feel of a space and minimizing eyestrain (a cause of employee fatigue). High-LR ceilings can also help conserve energy and cut operating costs by achieving the same light levels with fewer fixtures and lower-wattage bulbs. Fewer fixtures also mean less repairs and lower maintenance costs.

Architects typically select high-LR ceilings for spaces that make extensive use of indirect lighting. However, these panels can enhance almost any lighting scheme and so can be an effective choice for many design applications. Many USG panels with high LR values also feature high NRC and CAC ratings so you don't have to compromise acoustics for aesthetics. Panels are available in a range of textures including smooth and very fine, many include *ClimaPlus* performance, and several are cast products, which provide a higher level of durability to resist and hide scrapes and scratches.

1. Standard Test Method for Luminous Reflectance Factor of Acoustical Materials by Use of Integrating-Sphere Reflectometers.

Ceiling Panels	LR[1]	Textures	Panel Cost	Page Number	Price/ Sq. ft.
Mars *ClimaPlus*	.89	Fine	$$	160	$ < 1.50
Mars *ClimaPlus* High-NRC	.89	Fine	$$	162	$$ 1.51 to 2.50
Radar Illusion	.89	Medium	$$	176	$$$ 2.51 to 3.50
Radar *ClimaPlus* Illusion	.89	Medium	$$	180	$$$$ > 3.51
Frost *ClimaPlus* High LR	.83	Fine	$$	150	
Halcyon *ClimaPlus*	.88	Fine	$$	154	
Halcyon *ClimaPlus* Large Sizes	.88	Fine	$$$	156	
Halcyon *ClimaPlus* Planks	.88	Fine	$$$	156	
Aspen	.87	Medium	$$$	130	
Millennia *ClimaPlus*	.87	Fine	$$	164	
Millennia *ClimaPlus* High-NRC	.87	Fine	$$	166	
Millennia *ClimaPlus* Illusion	.87	Fine	$$	164	
Olympia Micro *ClimaPlus*	.87	Fine	$$	168	
Olympia Micro *ClimaPlus* Illusion	.87	Fine	$$	168	
Premier Nubby *ClimaPlus*	.87	Fine	$$$	174	
Astro *ClimaPlus*	.86	Fine	$$	132	
Astro *ClimaPlus* Illusion	.86	Fine	$$	132	
Eclipse *ClimaPlus*	.86	Fine	$$	138	
Pebbled *ClimaPlus*	.86	Medium	$	170	
Rock Face *ClimaPlus*	.86	Medium	$$	190	
Touchstone *ClimaPlus*	.86	Medium	$$	198	
Aspen Illusion	.85	Medium	$$	130	
Frost	.85	Fine	$$	148	
Radar	.85	Medium	$	176	
Eclipse *ClimaPlus* Illusion	.84	Fine	$$	140	
Radar *ClimaPlus*	.84	Medium	$	178	
Radar *ClimaPlus* High-CAC, High-NRC	.84	Medium	$	182	
Frost *ClimaPlus*	.83	Fine	$$	150	
Fresco *ClimaPlus*	.83	Heavy	$$	146	
Sandrift *ClimaPlus*	.83	Medium	$$	192	
Radar Ceramic *ClimaPlus*	.82	Medium	$$	184	
Brio *ClimaPlus*	.81	Heavy	$$	134	
Fissured	.81	Medium	$	144	
Summit *ClimaPlus*	.81	Fine	$$$	196	

Standard and Advantage Colors

Standard colors: Available for quick delivery. Minimum panel quantities apply; one-carton minimum per component for suspension systems.

Advantage colors: Available within five weeks. Minimum panel quantities apply; one-carton minimum per component for suspension systems. Panels and suspension systems also available in custom colors. Contact your USG sales representative for details.

Note: *ClimaPlus* Superior Performance for mold/mildew available only with White panels.

	Product	Item No.	Color Options	Standard		Advantage		Sq.Ft./ Carton	Size	Edge	Page No.
				Min. Sq. Ft.	Lead Time Days	Min. Sq. Ft.	Lead Time Days				
Ceiling Panels	Eclipse *ClimaPlus*	76975	Standard colors (Flat Black and Charcoal not available)	48	10	N/A	N/A	48	2′ x 2′ x 3/4″	FL	138
	Eclipse *ClimaPlus*	76775	Standard colors (Flat Black and Charcoal not available)	48	10	N/A	N/A	48	2′ x 2′ x 3/4″	SLT	138
	Frost *ClimaPlus*	414	Standard and Advantage colors	32	5	2,688	25	32	2′ x 2′ x 3/4″	SLB	150
	Frost *ClimaPlus*	418	Standard and Advantage colors	2,688	25	2,688	25	32	2′ x 2′ x 3/4″	FL	150
	Frost *ClimaPlus*	419	Standard and Advantage colors	2,688	25	2,688	25	32	2′ x 2′ x 3/4″	FLB	150
	Glacier	707	Standard and Advantage colors	32	5	2,688	25	32	2′ x 2′ x 3/4″	SL	152
	Glacier	708	Standard and Advantage colors	2,688	25	2,688	25	32	2′ x 2′ x 3/4″	FL	152
	Premier Hi-Lite *ClimaPlus* Kapok	7054G	Flat Black only	128	15	N/A	N/A	128	2′ x 2′ x 5/8″	SQ	172
	Premier Hi-Lite *ClimaPlus* Kapok	7055G	Flat Black only	128	15	N/A	N/A	128	2′ x 4′ x 5/8″	SQ	172
	Premier Hi-Lite *ClimaPlus* Kapok	7056G	Flat Black only	128	15	N/A	N/A	128	2′ x 2′ x 5/8″	SQ	172
	Premier Hi-Lite *ClimaPlus* Kapok	7057G	Flat Black only	128	15	N/A	N/A	128	2′ x 4′ x 5/8″	SQ	172
	Radar *ClimaPlus*	2210	Standard colors	64	10	N/A	N/A	64	2′ x 2′ x 5/8″	SQ	178
	Radar *ClimaPlus*	2220	Standard colors (Flat Black and Charcoal not available)	64	10	N/A	N/A	64	2′ x 2′ x 5/8″	SLT	178
	Radar *ClimaPlus*	2410	Standard colors	64	10	N/A	N/A	64	2′ x 4′ x 5/8″	SQ	178
	Radar *ClimaPlus* Firecode	2415	Flat Black and Charcoal only	64	10	N/A	N/A	64	2′ x 4′ x 5/8″	SQ	178
	Radar *ClimaPlus* Illusion Two/24	2842	Standard colors (Flat Black and Charcoal not available)	48	10	N/A	N/A	48	2′ x 4′ x 3/4″	SLT	180
	Sandrift *ClimaPlus*[1]	808	Standard and Advantage colors	2,688	25	2,688	25	32	2′ x 2′ x 3/4″	SL	192
	Sandrift *ClimaPlus*[1]	809	Standard and Advantage colors	2,688	25	2,688	25	32	2′ x 2′ x 3/4″	FL	192
Suspension Systems	Centricitee DXT	DXT24	Standard and Advantage colors						9/16″	—	214
Color caps only	Centricitee DXT	DXT222	Standard and Advantage colors						9/16″	—	214
	Centricitee DXT	DXT424	Standard and Advantage colors						9/16″	—	214
	Wall Molding	M9 Molding	Standard and Advantage colors						9/16″	—	214
	DX/DXL	DX/ DXL24	Standard and Advantage colors						15/16″	—	216
	DX/DXL	DX/ DXL216	Standard and Advantage colors						15/16″	—	216
	DX/DXL	DX/ DXL424	Standard and Advantage colors						15/16″	—	216
	Wall Molding	M7 Molding	Standard and Advantage colors						7/8″	—	216

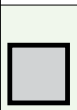
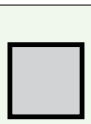
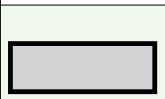
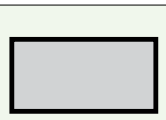
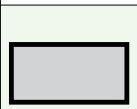
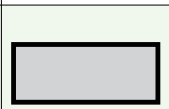
1. To highlight the unique texture of Sandrift *ClimaPlus* panels, choose light colors.

Samples shown are only a representation of color.
Please request a sample for actual color by calling 888 874.2450.
Note: *ClimaPlus* Superior Performance for mold/mildew available only with White panels.

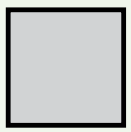
	Parchment 103	Manila 246	Beige 142	Straw 143	Sandstone 090	Taupe 107
Standard Colors Ceiling Panels and Suspension Systems	Charcoal 534	Flat Black 205				
	Silvertone 052	Breeze 2659	Blue Grey 564	Azure 2660	Slate 568	Spruce 567
Advantage Colors Ceiling Panels and Suspension Systems	Tuscany 2663	Sorbet 2658	Squash 2661	Safari 2662	Redwood 566	Sienna 565
	Halo 206	Quartz 082	Nectar 546	Mist 053		
	Silver Satin 002	Plated Brass 065	Plated Chrome 066	Bronze 774		
Suspension Systems Only						

Acoustical Module Sizes

Halcyon *ClimaPlus* Planks

	Traditional						
Panel Sizes	12″ x 12″	2′ x 2′	30″ x 30″	20″ x 60″	30″ x 60″	2′ x 4′	2′ x 5′
							
	"F" Fissured, Glacier, Millennia *ClimaPlus*, Radar, Radar *ClimaPlus*	All patterns	Halcyon *ClimaPlus*, Mars *ClimaPlus*, Mars *ClimaPlus* High-NRC	Halcyon *ClimaPlus* Radar	Halcyon *ClimaPlus* Radar	Available in most patterns. See footnote for complete product list.	Radar

2′ x 4′ panels available in Aspen, Astro *ClimaPlus*, Clean Room *ClimaPlus*, Eclipse *ClimaPlus*, Eclipse *ClimaPlus* Pedestals, "F" Fissured, Fissured, Frost, Glacier, Halcyon *ClimaPlus*, Mars *ClimaPlus*, Mars *ClimaPlus* High-NRC, Millennia *ClimaPlus*, Olympia Micro *ClimaPlus*, Pebbled *ClimaPlus*, Premier Hi-Lite *ClimaPlus*, Premier Nubby *ClimaPlus*, Radar, Radar *ClimaPlus*, Radar *ClimaPlus* Illusion, Radar *ClimaPlus* High CAC/NRC, Radar Ceramic *ClimaPlus*, Rock Face *ClimaPlus*, Sheetrock Lay-In Ceiling Panel *ClimaPlus*, Touchstone *ClimaPlus*

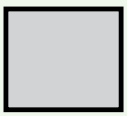
Large		Planks	
4′ x 4′	4′ x 8′	2′ x 6′	2′ x 8′
			

Halcyon *ClimaPlus*

USG acoustical ceilings are available in a range of formats, from traditional 2 ft. x 2 ft. and 2 ft. x 4 ft. panels to new large-size and planks panels, providing options for enhancing visual interest and maximizing high-NRC areas. The new LOGIX integrated ceiling system aligns services (lighting, sprinklers, speakers, etc.) along narrow bands parallel with the main tees. Also available with bands perpendicular to main tees, utilizing 6 in. HALCYON *CLIMAPLUS* or 6 in. metal PANZ utility panels.

Panel Sizes

LOGIX Field Panels

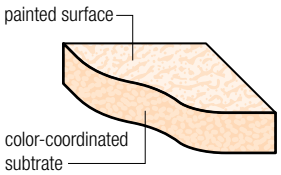
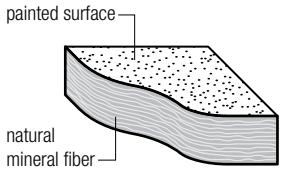
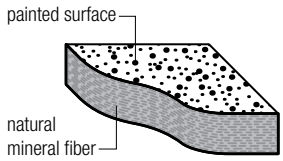
20″ x 54″	21″ x 24″	24″ x 42″	27″ x 30″	30″ x 54″	42″ x 48″
					
HALCYON *CLIMAPLUS*					

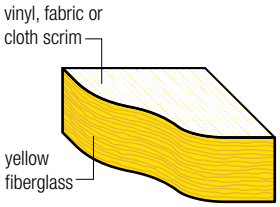
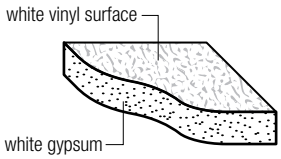
LOGIX Channel Panels

6″ x 48″	6″ x 60″
HALCYON *CLIMAPLUS*	

Performance Substrates

USG is the only manufacturer with the capabilities to produce acoustical ceiling panels with five different substrate technologies to achieve the full range of functional and aesthetic needs. Available substrates include cast mineral fiber, X-Technology mineral fiber, water-felted mineral fiber, fiberglass, and gypsum panel ceilings.

Profile	Construction	Applications	Available Panels	Page No.
Cast Mineral Fiber  	Formed and baked solid in molds to create a long-lasting, abuse-resistant surface in a range of textures.	Open-plan areas subject to frequent plenum access that require strong sound absorption (NRC) and sound blocking (CAC) performance.	**Brio *ClimaPlus***	134
	Through-color masks nicks and scratches.		**"F" Fissured**	142
	Orients fibers for excellent sound absorption and high noise reduction coefficients (NRC).	Enclosed areas requiring speech privacy.	**Fresco *ClimaPlus***	146
	Composition enhances sound blocking (CAC) and resists "breathing" (air passing through panel) so surface stays cleaner, longer.	Ceilings requiring exceptionally durable, long-lasting panels.	**Frost**	148
	Surface cleans easily with a soft brush or vacuum.	High-visibility areas that require color and/or a range of texture options.	**Frost *ClimaPlus***	150
			Glacier	152
			Sandrift *ClimaPlus*	192
			Summit *ClimaPlus*	196
X-Technology Mineral Fiber  	Unique process creates a smooth surface with high noise absorption (NRC) and blocking (CAC).	Open-plan areas that require strong sound absorption (NRC) and sound blocking (CAC) performance.	**Astro *ClimaPlus***	132
	Superior sag resistance and outstanding dimensional stability.		**Eclipse *ClimaPlus***	136-139
	Surface cleans easily with a soft brush or vacuum.	Ceilings that require a level of dimensional stability beyond that of standard water-felted mineral-fiber panels.	**Mars *ClimaPlus***	160
			Mars *ClimaPlus* High-NRC	162
			Millennia *ClimaPlus*	164-167
		Designs that require a ceiling with a smooth appearance that can be cleaned easily with a soft brush or vacuum.		
Water-Felted Mineral Fiber  	Surface perforations aid sound absorption.	General-use areas requiring a balance of acoustical control and economy.	**Aspen**	130
	Creates a variety of surface textures.		**Clean Room *ClimaPlus* Class 100**	136
	Surface cleans easily with a soft brush or vacuum.	High ceilings subject to infrequent plenum access and out of the way of activity below.	**Clean Room *ClimaPlus* Class 10M-100M**	136
	Lowest initial cost.		**Fissured**	144
	Clean Room panels have a vinyl face and back and sealed edges to meet federal standards for cleanrooms.		**Olympia Micro *ClimaPlus***	168
			Pebbled *ClimaPlus*	170
			Radar	176
			Radar *ClimaPlus*	178-183
			Radar Ceramic *ClimaPlus*	184
			Rock Face *ClimaPlus*	190
			Touchstone *ClimaPlus*	198

Profile	Construction	Applications	Available Panels	Page No.
Fiberglass  	Vinyl- and fabric-surfaced fiberglass offers superior sound absorption (NRC). Light weight. Washable surface.*	Open-plan areas where sound absorption is the highest performance criterion. Ceilings that require a very lightweight panel. Installations that may benefit from a washable vinyl surface.	**Halcyon *ClimaPlus*** **Halcyon *ClimaPlus* Planks and Large Sizes** **Premier Hi-Lite *ClimaPlus*** **Premier Nubby *ClimaPlus***	154 156 172 174
Gypsum Panel  	Face-laminated gypsum panels provide dimensional stability and sound blocking (CAC). Sheetrock Clean Room panels have a vinyl face and back and sealed edges to meet USDA/FSIS requirements for food processing areas.	Regulated environments such as cleanrooms and kitchens/ food preparation areas, which require highly cleanable surfaces that resist absorption of chemicals and odors. Demanding applications subject to moisture exposure, temperature swings and exposure to dirt and grime, such as exterior soffits, marine environments, parking garages and locker rooms.	**Sheetrock Clean Room *ClimaPlus* Lay-In Panel** **Sheetrock Vinyl *ClimaPlus* Lay-In Panel**	194 194

* Premier Nubby *ClimaPlus* surface not washable.

Acoustical Ratings

The Acoustical Ratings selector identifies USG ceiling panels that offer enhanced sound control properties. By absorbing sound and reducing sound transmission better than standard panels, these products can significantly improve acoustical comfort, privacy and productivity. Here's a closer look at what to consider when selecting a high-performance acoustical ceiling for your project.

High-NRC Panels Absorb More Sound

The Noise Reduction Coefficient (NRC) of a panel measures how effectively it absorbs sound. High-NRC ceiling panels are most effective in open areas because they can reduce reverberation within the space. NRC is represented by a number between 0 and 1.00, which is a general indication of the percentage of sound reaching it that will be absorbed. For example, an acoustical ceiling panel with an NRC value of .60 will absorb approximately 60% of the sound that strikes it and deflect 40% back into the space. NRC of .50 or higher offers significant sound absorption, and USG panels designed for increased acoustical performance feature NRC ratings of .70 or above. Our Halcyon *ClimaPlus* ceiling panel offers an NRC of 1.00, the highest rating.

High-CAC Panels Reduce Sound Transmission

Ceiling Attenuation Class (CAC) indicates the ability to reduce sound transmission. High-CAC panels can improve privacy in enclosed spaces by blocking sound from transmitting up into the plenum and down to adjacent rooms. A ceiling panel with a CAC of 40 generally reduces transmitted sound by 40 decibels (dB); CAC of 35 or higher offers significant sound attenuation.

Beyond Good Design

High acoustical performance is critical for clients that must comply with federal privacy rules. For example, the Health Insurance Portability and Accountability Act (HIPAA) requires that all physician offices, pharmacies and other healthcare facilities in the U.S. protect personal health information. This includes consultation areas, where doctor-patient conversations could be overheard.

The Financial Services Modernization Act of 1999, also known as the Gramm-Leach-Bliley Act (GLBA), requires that banks, investment companies and other financial institutions protect customer financial information from being inadvertently disclosed.

To provide an effective, affordable solution for speech privacy, USG has teamed up with Lencore Acoustics to offer the most comprehensive sound masking ceiling systems available. For more information on how USG ceiling panels and Lencore sound masking work together to improve speech privacy and enhance acoustical comfort, see pages 296–297.

1. Performance values do not include 12″ x 12″ or Pedestals products.
2. CAC is 40 when installed in FINELINE DXF or FINELINE 1/8 DXFF suspension system.

	Sound Rating					
Ceiling Panels[1]	**NRC**	**CAC Min.**	**Texture**	**Panel Cost**	**Page Number**	**Price/ Sq. ft.**
High NRC & CAC Combinations						$ < 1.50 $$ 1.51 to 2.50 $$$ 2.51 to 3.50 $$$$ > 3.51 NRC = Noise Reduction Coefficient CAC = Ceiling Attenuation Class
MARS *CLIMAPLUS* High-NRC	.80	35	Fine	$$	162	
BRIO *CLIMAPLUS*	.70	35	Heavy	$$	134	
ECLIPSE *CLIMAPLUS*	.70	35	Fine	$$	138	
ECLIPSE *CLIMAPLUS* Illusion	.70	35	Fine	$$	140	
"F" FISSURED	.70	35	Medium	$$	142	
Fresco *CLIMAPLUS*	.70	35	Heavy	$$	146	
FROST *CLIMAPLUS*	.70	35-40[2]	Fine	$$	150	
MARS *CLIMAPLUS*	.70	35	Fine	$$	160	
MILLENNIA *CLIMAPLUS*	.70	35	Fine	$$	164	
MILLENNIA *CLIMAPLUS* Illusion	.70	35	Fine	$$	164	
RADAR *CLIMAPLUS* High-NRC	.70	35	Medium	$	182	
SANDRIFT *CLIMAPLUS*	.70	38	Medium	$$	192	
SUMMIT *CLIMAPLUS*	.70	38/40[2]	Fine	$$$	196	
FROST	.70	35-40	Fine	$$	148	
GLACIER	.65	35	Heavy	$$	152	
High NRC						
HALCYON *CLIMAPLUS*	.90-1.00	20-30	Fine	$$	154	
HALCYON *CLIMAPLUS* Large Sizes	.95	20	Fine	$$$	156	
HALCYON *CLIMAPLUS* Planks	.90/.95	20	Fine	$$$	156	
PREMIER NUBBY *CLIMAPLUS* (Foil-Back)	.85/.90	20/25	Fine	$$$	174	
MARS *CLIMAPLUS* High-NRC	.80	35	Fine	$$	162	
MILLENNIA *CLIMAPLUS* High-NRC	.75	30	Fine	$$	166	
PREMIER HI-LITE *CLIMAPLUS* Perforated	.75	20	Medium	$	172	
SUMMIT *CLIMAPLUS*	.70	38/40[2]	Fine	$$$	196	
SANDRIFT *CLIMAPLUS*	.70	38	Medium	$$	192	
BRIO *CLIMAPLUS*	.70	35	Heavy	$$	134	
ECLIPSE *CLIMAPLUS*	.70	35	Fine	$$	138	
ECLIPSE *CLIMAPLUS* Illusion	.70	35	Fine	$$	140	
"F" FISSURED	.70	35	Medium	$$	142	
Fresco *CLIMAPLUS*	.70	35	Heavy	$$	146	
FROST *CLIMAPLUS*	.70	35-40[2]	Fine	$$	150	
MARS *CLIMAPLUS*	.70	35	Smooth	$$	160	
MILLENNIA *CLIMAPLUS*	.70	35	Fine	$$	164	
MILLENNIA *CLIMAPLUS* Illusion	.70	35	Fine	$$	164	
RADAR *CLIMAPLUS* High-NRC	.70	35	Medium	$	182	
FROST	.70	35-40	Fine	$$	148	
GLACIER	.65	35	Heavy	$$	152	
High CAC						
RADAR *CLIMAPLUS* High-CAC	.55	40	Medium	$	182	
RADAR Ceramic *CLIMAPLUS*	.50	40	Medium	$$	184	
SHEETROCK Brand Lay-In Ceiling Panel *CLIMAPLUS*	—	35/40	Smooth	$	194	

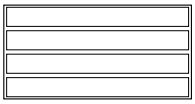
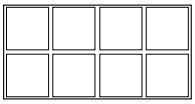
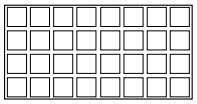
Patterns

Many USG ceiling panels are available with a choice of attractive face patterns, providing easy opportunities to enhance visual interest, adjust dimensional scale or add thematic cues.

FROST Renditions Boundaries I, CENTRICITEE DXT suspension system

Illusion Face Scoring

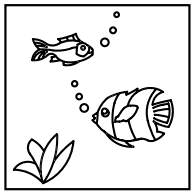
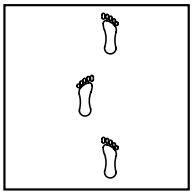
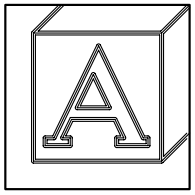
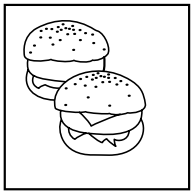
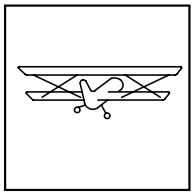
Create the appearance of a smaller-scaled ceiling system without compromising accessibility or increasing the complexity of the installation. Options include:

Illusion Two/24	Illusion Four/48	Illusion Eight/12	Illusion Thirty-Two/6
			
2′x 4′ panels with the look of 2′x 2′ panels.	2′x 4′ panels with the look of 6″x 4′ panels.	2′x 4′ panels with the look of 12″x 12″ panels.	2′x 4′ panels with the look of 6″x 6″ panels.

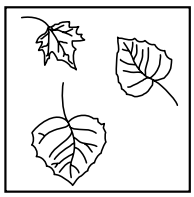
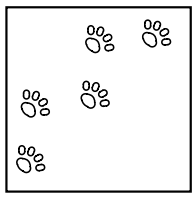
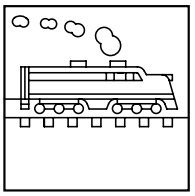
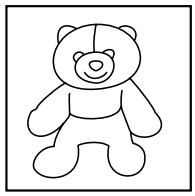
RENDITIONS Face-Routed Ceiling Panels

Combine the fine texture of 2′x 2′ ECLIPSE, FROST or MILLENNIA panels with computer-generated face-routed designs to add detail, highlight a theme or differentiate areas within the space. RENDITIONS panels are available in two standard series: Animations and Boundaries. In addition, virtually any custom design, including company logos or trademarks, can be produced.

Animations
Whimsical patterns designed for childcare facilities, educational environments, children's healthcare facilities and other themed environments.

Aquarium 5-Panel Series	Barefootin' 12-Panel Series	Blocks 13-Panel Series	Fast Food 5-Panel Series	Flying Things 13-Panel Series
				

See IC500 for all panels in each series.

Leaves 13-Panel Series	Night Sky 8-Panel Series	Paws 29-Panel Series	Railway 26-Panel Series	Stuffed Animals 4-Panel Series
				

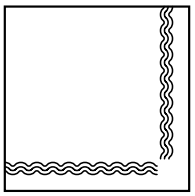
To order custom perforation patterns, contact your local sales representative or fax your information to the USG Specialty Solutions Group at 440 892.7173.

1. Panels with face routing do not carry the USG *ClimaPlus* non-sag warranty. Refer to standard commercial ceilings warranty.

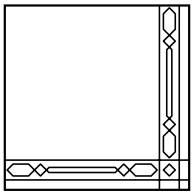
Boundaries

Choose from simple and ornate border patterns to define space and add visual interest. Designs may cross grid lines to enhance wayfinding. Boundaries patterns may be especially suited to educational facilities, healthcare environments and retail spaces.

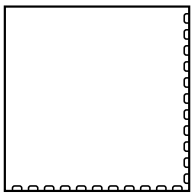
Curls



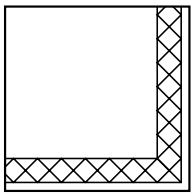
Deco



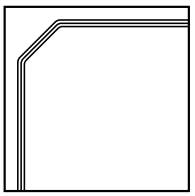
Dentil



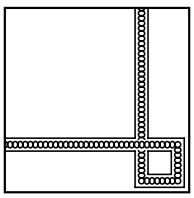
Diagonal



Renditions I



Tara



Guidelines

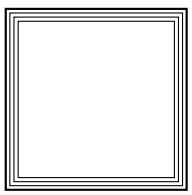
Frost panels with Renditions face routing are available in Standard colors, Advantage colors and custom colors. Eclipse and Millennia panels are available in White only. Panels with face routing do not carry the USG *ClimaPlus* non-sag warranty. Refer to standard commercial ceilings warranty. For more information about Renditions face routing, see pages 186-189.

Custom Renditions designs can be made from sketches or AutoCAD® drawings, and your designs may cross grid lines for the ultimate in flexibility. Numbered ceiling panels match shop drawings to ensure easy installation.

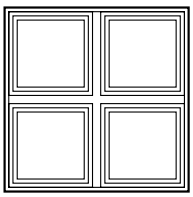
Pedestals Triple-Step Scoring

Available with select 2′x 2′ panels, Pedestals triple-step scoring adds detail and depth to the ceiling plane, providing an easy way to enhance the interest of your design. Pedestals IV panels are scored in 12″ x 12″ modules to further refine the ceiling with the look of a smaller-scaled system.

Pedestals I



Pedestals IV



Ceiling Panels	Illusion Face Scoring				Pedestals Scoring		Reditions Face Routing
	Two/24	Four/48	Eight/12	Thirty-Two/6	I	IV	
Aspen	●						
Astro *ClimaPlus*	●						
Eclipse *ClimaPlus*[1]	●				●	●	●
Frost					●		●
Millennia *ClimaPlus*[1]	●						●
Olympia Micro *ClimaPlus*	●						
Radar Illusion	●						
Radar *ClimaPlus* Illusion	●	●	●	●			

Sustainability

Today's building industry focuses on conservation, recycling and long-term performance in a comprehensive strategy known as sustainable design. This practice involves the careful selection of building materials, construction methods and design details to create structures that consume fewer natural resources to build, maintain and remain viable in the future. USG ceiling products are designed to enhance the sustainability of your design by providing:

Recycled and Renewable Ingredients

Many USG acoustical ceiling panels contain mineral wool derived from slag, a byproduct of steelmaking, reducing the need to mine and process raw materials and minimizing landfill waste. Many panels also contain recycled paper. Binders are derived from corn and wheat starch, which are renewable agricultural resources. The metal in many of our specialty ceiling and drywall suspension systems includes recycled content. Aluminum offers additional benefits in that it can be fully re-purposed by re-melting and salvaging the metal.

Support for Healthy Environments

Assuring a high level of indoor environmental quality (IEQ) is a key to sustainability because spaces that deliver comfort and functionality are likely to meet occupant needs long into the future without requiring extensive upgrades or renovations. To increase long-term practicality, architects must choose materials that not only perform well and look good but also support a healthy environment. Many USG ceiling panels help to support healthy environments with:

Reduced volatile organic compound (VOC) emissions.

VOCs include thousands of synthetic and natural chemicals emitted by a wide array of products, building materials, and microorganisms. One common VOC is formaldehyde, a colorless and pungent gas. VOCs can cause numerous health effects in sensitive individuals, including eye, nose and throat irritation, headaches, skin reactions, fatigue, dizziness, loss of coordination and nausea.

To help building professionals create healthy spaces, USG offers many ceiling panels and tiles that emit no formaldehyde or such low levels as to exceed stringent standards established by the Collaborative for High-Performance Schools (CHPS). This high performance comes standard on these products, with no additional charge or lead time.

Choosing zero-emitting and low-emitting ceiling products can also help earn LEED credits. Section 3.2, IAQ Management Plan, Before Occupancy, requires a total formaldehyde concentration of 50 ppb or less. As one of the largest surfaces in a space, a ceiling with zero- or low-emitting panels makes a strong contribution toward achieving valuable credits – and creating healthy, sustainable environments.

Frost *ClimaPlus* Ceiling Panels, Fineline DXF Suspension System

Inhibition of mold and mildew.

Because mold spores are everywhere and they can grow on virtually any surface where moisture is present, preventing mold begins with moisture control through best building practices. Adding the right protection in the right places is the second critical aspect of the mold-control equation. USG helps architects and specifiers address the issue of mold and microbial growth by offering ceiling panels[1] with *ClimaPlus* Superior Performance, which provides guaranteed resistance against mold and mildew growth, subject to use under normal conditions.

Face and back surfaces of these ceiling panels feature a patented antimicrobial treatment that provides broad-spectrum control for mold, mildew and fungi over the warranty period. Controlled laboratory tests in accordance with ASTM D3273[2] and evaluated per ASTM D3274[3] have demonstrated the effectiveness of USG panels with *ClimaPlus* Superior Performance compared to standard, untreated ceilings.

In addition, several USG ceiling panels are formulated to inherently resist the growth of mold and mildew. These products include:

- Halcyon *ClimaPlus*
- Halcyon *ClimaPlus* Planks/Large Format
- Premier Hi-Lite *ClimaPlus*
- Premier Nubby *ClimaPlus*
- Radar Ceramic *ClimaPlus*

1. White panels only.
2. Standard Test Method for Resistance to Mold on the Surface of Interior Coatings in an Environmental Chamber. Note that this ASTM lab test is not intended to predict long term mold resistance and may not accurately represent the mold performance of building materials in actual use. Given unsuitable project conditions during storage, installation or after completion, any building material can be overwhelmed by mold. To manage the growth of mold, the best and most cost-effective strategy is to protect building products from water exposure during storage and installation and after completion of the building. This can be accomplished by using good design and construction practices. For details, see *Testing for Mold Resistance (WB2420).*
3. Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation.

Sustainability

USGBC LEED Credit Category

Substrate	Product Name	EQ4 VOC Emissions[1]	EQ4 Anti-Mold & Mildew	EQ8 LR	EQ8 NRC	EQ8 CAC	MR 4.1 and 4.2 Recycled Content[2] Class A Post-Ind.	MR 4.1 and 4.2 Recycled Content[2] Class A Post-Cons.	MR 4.1 and 4.2 Firecode Post-Ind.	MR 4.1 and 4.2 Firecode Post-Cons.	MR 5.1 and 5.2 Manufacturing Information
Cast Mineral Fiber	Brio *ClimaPlus*	Zero	●	.81	.70	35	71%	0%	—	—	Manufactured at Walworth, WI 53184
	"F" Fissured	Zero	—	.79	.70	35	71%	0%	—	—	Ingredients: slag wool, plaster of paris, starch, clay
	Fresco *ClimaPlus*	Zero	●	.83	.70	35	71%	0%	—	—	
	Frost	Zero	—	.83	.70	35-40	71%	0%	70%	0%	
	Frost *ClimaPlus*	Zero	●	.83	.70	35-40	71%	0%	—	0%	
	Glacier	Zero	—	.70	.65	35	71%	0%	70%	0%	
	Sandrift *ClimaPlus*	Zero	●	.83	.70	38	71%	0%	70%	0%	
	Summit *ClimaPlus*	Zero	●	.81	.70	38/40	63%	0%	—	0%	
X-Technology-Mineral Fiber	Astro *ClimaPlus*	Low	●	.86	.50/.55	35	65%	0%	69%	0%	Manufactured at Cloquet, MN 55720
	Eclipse *ClimaPlus*	Low	●	.86	.65/.70	35	77%	0%	62%	0%	Ingredients: slag wool, perlite, cellulose, starch, clay
	Mars *ClimaPlus*	Low	●	.89	.70/.80	35	76/77%	0%	—	—	
	Millennia *ClimaPlus*	Low	●	.87	.70/.75	30/35	75%	0%	—	—	

1. VOC Emissions Classification, as tested per California Special Environmental Requirements, Specifications Section 01350. "Zero" – classified as zero-emitting: Formaldehyde concentration levels do not exceed 2 µg/m^3 (1.6 ppb), the background level specified for this test protocol. "Low" – classified as low-emitting: Formaldehyde concentration levels do not exceed the 13.5 ppb limit required by this test protocol and the Collaborative For High Performance Schools (CHPS).
2. Federal Trade Commission guidelines define recycled content as material recovered or diverted from the solid-waste stream, either during the manufacturing process (pre-consumer) or after consumer use (post-consumer).
3. Radar Ceramic *ClimaPlus* panels are totally inorganic and therefore inherently resistant to the growth of mold, mildew and bacteria.

● ***ClimaPlus* Superior Performance:**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

○ ***ClimaPlus* Inherent Performance:**
Substrate is inherently resistant to the growth of mold, mildew and bacteria.

		EQ4		EQ8			MR 4.1 and 4.2				MR 5.1 and 5.2
Substrate	**Product Name**	**VOC Emissions[1]**	**Anti-Mold & Mildew**	**LR**	**NRC**	**CAC**	**Recycled Content[2] Class A**		**Firecode**		**Manufacturing Information**
							Post-Ind.	**Post-Cons.**	**Post-Ind.**	**Post-Cons.**	
Water-Felted Mineral Fiber	Clean Room *ClimaPlus*	Low	—	.79	— /.55	35	—	—	45%	6%	Manufactured at Cloquet, MN 55720
	Fissured	Low	—	.81	.55	33/35	7%	18%	44%	6%	Ingredients: slag wool, perlite, cellulose, starch, clay
	Radar	Low	—	.85	.55/.60	33/35	7%	18%	44%	6%	
	Radar *ClimaPlus*	Low	●	.84	.55	33/35	31%	13%	44%	6%	
	Radar *ClimaPlus* High-CAC	Low	●	.84	.55	40	—	—	57%	1%	
	Radar *ClimaPlus* High-NRC	Low	●	.84	.70	35	—	—	57%	1%	
	Radar Ceramic *ClimaPlus*	Low	○[3]	.82	.50	40	—	—	45%	0%	Manufactured at Greenville, MS 38701
	Aspen	Low	—	.87	.50/.55	35/40	13%	16%	—	—	Ingredients: slag wool, perlite, cellulose, starch, clay
	Fissured	Low	—	.81	.55	33/35	8%	17%	43%	6%	
	Olympia Micro *ClimaPlus*	Low	●	.87	.50	30/35	39%	13%	—	—	
	Pebbled *ClimaPlus*	Low	●	.86	.55	35	17%	17%	—	—	
	Radar	Low	—	.85	.55/.60	33/35	8%	17%	43%	6%	
	Radar *ClimaPlus*	Low	●	.84	.55	33/35	13%	16%	43%	6%	
	Rock Face *ClimaPlus*	Low	●	86	.55	35	—	—	43%	6%	
Fiberglass	Touchstone *ClimaPlus* Includes planks and large-size panels	Low	●	86	.55	35	—	—	43%	6%	Manufactured at Greenville, MS 38701
	Halcyon *ClimaPlus*	—	○	.88	.90-1.00	20-30	1%	39-41%	—	—	Ingredients: glass fiber
	Premier Hi-Lite *ClimaPlus*	—	○	.86	.60/.75	20	23%	8%	—	—	
	Premier Nubby *ClimaPlus*	—	○	.87	.85/.90	25	—	29/32%	—	—	

Sustainability

Complete the Cycle

Acoustical Ceilings Recycling Program

USG has manufactured wallboard with recaptured gypsum for more than 30 years. And, we're one of the nation's top users of recycled paper. Now USG can help meet the needs of a growing world and preserve natural resources by taking back approved ceiling panels from any manufacturer and recycling them into new building products. Recycling is:

The right thing. Recycling reduces waste and relieves pressure on overburdened landfills. Incorporating renovation waste into new building products can also slow the rate at which raw materials are extracted from the land.

Efficient. In the time required to haul small loads of old panels to the waste container, workers can palletize panels as they are removed.

Cost-effective. Panels can be palletized about as quickly as they are hauled and loaded into waste containers. And, you'll reduce container and landfill fees.

How it Works

We've designed this program to be fast, easy and cost-effective. Just follow these simple steps:

1. Verify that the panels are recyclable

We can accept mineral-fiber ceiling products for recycling. Material must be clean, dry and approved by USG. No wood, metal or construction debris of any kind is permitted. Panels must not have come into contact with any hazardous material that requires special handling or disposal.

2. Stack the panels

Instead of hauling and loading old panels into a waste container, stack them neatly on shipping pallets. When a pallet is full, simply wrap it with plastic and set aside for pickup by a local USG distributor.

3. Contact USG for pickup

We'll arrange and pay to haul away the old panels. Just be sure to have a full truckload (30,000 square feet), and call your local USG representative at least five days before pickup is required. If you cannot fill a truck, additional options are available. Our goal is to prevent recyclable materials from being discarded into landfills.

Recycling can also qualify your project for LEED points. To find out more, contact your local USG representative or visit www.usg.com.

Installed Cost

Ceiling Panels and Suspension System

1. Costs do not include 12″x12″ products.

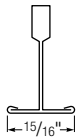
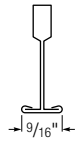
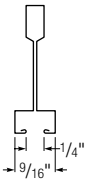
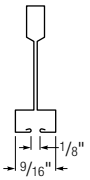
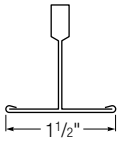
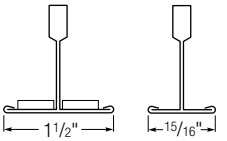
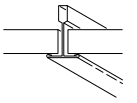
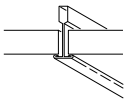
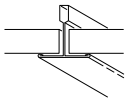
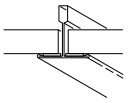
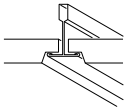
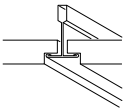
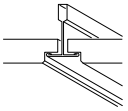
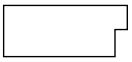
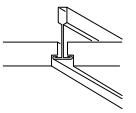
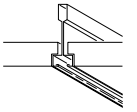
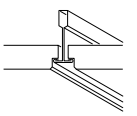
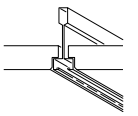
Panel[1]	DX/DXL SQ	DX/DXL SL/SLT/SLB	Centricitee DXT	Fineline DXF/DXFF	DXW	DX\DXL Concealed	DXLA	ZXLA	AX	CE	Price/sq. ft.
											$
Aspen	—	$$	—	—	—	—	—	—	—	—	$ < 1.50
Aspen Illusion	—	$$	—	—	—	—	—	—	—	—	$$ 1.51 to 2.50
Astro *ClimaPlus*	$$	$$	$$	$$	$$	—	—	—	—	—	$$$ 2.51 to 3.50
Astro *ClimaPlus* Illusion	—	$$	—	—	—	—	—	—	—	—	$$$$ > 3.51
Brio *ClimaPlus*	—	$$	$$$	$$$	—	—	—	—	—	—	
Clean Room *ClimaPlus*	$$	—	—	—	—	—	$$	$$	$$	$$$	
Eclipse *ClimaPlus*	$$	$$	$$	$$$	$$	$$$$	—	—	—	—	
Eclipse *ClimaPlus* Illusion and Pedestals	—	$$	$$	—	—	—	—	—	—	—	
"F" Fissured	$$	$$	$$	$$	$$	$$$$	—	—	—	—	
Fissured	$	$	$	—	$$	—	—	—	—	—	
Fresco *ClimaPlus*	—	$$	$$$	$$$	—	—	—	—	—	—	
Frost	—	$$	$$	$$$	—	—	—	—	—	—	
Frost *ClimaPlus*	—	$$	$$	$$$	—	—	—	—	—	—	
Glacier	—	$$	$$	$$$	—	$$$$	—	—	—	—	
Halcyon *ClimaPlus*	$$	$$	$$	$$$	$$	—	—	—	—	—	
Halcyon *ClimaPlus* Large Sizes	$$$	$$$	$$$	$$$	$$$	—	—	—	—	—	
Halcyon *ClimaPlus* Planks	$$$$	$$$$	$$$$	$$$$	$$$$	—	—	—	—	—	
Mars *ClimaPlus*	$$	$$	$$	$$$	$$	—	—	—	—	—	
Mars *ClimaPlus* High-NRC	$$	$$	$$	$$$	$$	—	—	—	—	—	
Millennia *ClimaPlus*	$$	$$	$$	$$$	$$	$$$$	—	—	—	—	
Millennia *ClimaPlus* Illusion	—	$$	$$	—	—	—	—	—	—	—	
Millennia *ClimaPlus* High-NRC	—	$$	$$	$$$	—	—	—	—	—	—	
Olympia Micro *ClimaPlus*	$$	$$	$$	$$	$$	—	—	—	—	—	
Olympia Micro *ClimaPlus* Illusion	—	$$	—	—	—	—	—	—	—	—	
Pebbled	$	$	$	$	$$	—	—	—	—	—	
Premier Hi-Lite *ClimaPlus*	$	—	—	—	$$	—	—	$$	$$	—	
Premier Nubby *ClimaPlus*	$$$	—	—	—	$$$$	—	—	—	—	—	
Radar	$	$$	$	$$	$$	$$$	—	—	—	—	
Radar Illusion	—	$$	$$	—	—	—	—	—	—	—	
Radar *ClimaPlus*	$	$$	$$	$$	$$	—	—	—	—	—	
Radar *ClimaPlus* High-Durability	$	$$	$$	$$	$$	—	—	—	—	—	
Radar *ClimaPlus* Illusion	—	$$	$$	—	—	—	—	—	—	—	
Radar *ClimaPlus* High-CAC, High-NRC	$	$	$	—	$$	—	—	—	—	—	
Radar Ceramic *ClimaPlus*	—	—	—	—	—	—	—	$$	$$	—	
Rock Face *ClimaPlus*	$$	$$	—	—	—	—	$$	$$	$$	—	
Sandrift *ClimaPlus*	—	$$	$$$	$$$	—	—	—	—	—	—	
Sheetrock Brand Lay-In Ceiling Panel ClimaPlus, Vinyl	$	—	—	—	$$	—	$$	$$	$$	$$$	
Sheetrock Brand Lay-In Ceiling Panel *ClimaPlus*, Clean Room	$$	—	—	—	$$	—	$$	$$	$$	$$$	
Summit *ClimaPlus*	—	$$$	$$$$	$$$$	—	—	—	—	—	—	
Touchstone *ClimaPlus*	$$	$$	$$	$$	$$$	—	$$	—	—	—	

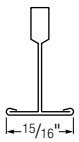
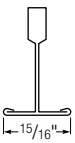
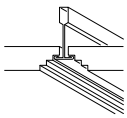
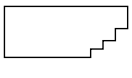
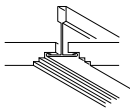
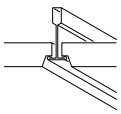
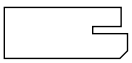
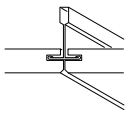
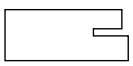
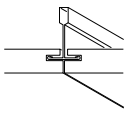
Relative installed costs per square foot are approximate and based on USG ceiling panel and suspension system combinations shown. These estimates are different from panel-only costs shown on other product data pages.

Costs are calculated from national average ranges for a typical installation under ideal height and job site conditions. Actual installed costs may vary based on several installation factors.

System Interface

USG offers numerous suspension system and edge detail options to help meet your design requirements. Select a suspension system and match it with a corresponding panel edge detail, or vice versa, to assure proper system fit and assembly.

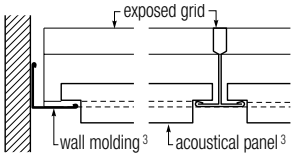
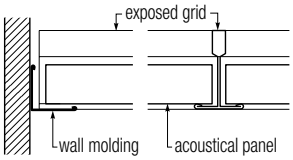
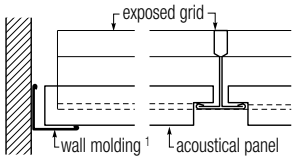
Suspension System / Edge Detail	DX/ DXL/ DXLA/ AX/ ZXLA/ DXSS	Centricitee DXT	Fineline DXF	Fineline 1/8 DXFF	DXW	CE
						
Square Edge (SQ)						
Shadowline Tapered (SLT)						
Shadowline (SL)						
Shadowline Bevel (SLB)						
Fineline (FL)						
Fineline Bevel (FLB)						

Suspension System / Edge Detail	DX/DXL 	CENTRICITEE DXT	DX/DXL Concealed 		Notes
Pedestals (PE/ILT)					AX, DXLA, and ZXLA suspension systems have the same profile as DX/DXL and can utilize the same edge details. DXL, DXLA, ZXLA, DXLF, and DXLT fire-rated suspension systems and FIRECODE Formulation panels may have restrictions on size and application; refer to appropriate UL Design for acceptable components.
Pedestals (PE/SLT) 					ILT edge is applicable only to Illusion and Pedestals face cut products. Square edge panels are not recommended with 2′x 4′ modules using 9/16″ grid. Refer to product pages for compatible grid options.
Interline Tapered (ILT)					
BESK 					
SESK 					

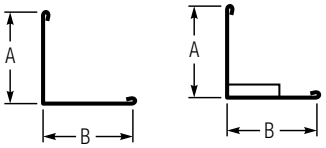
Perimeter Interface

USG offers numerous perimeter options designed to accommodate all DONN suspension systems with USG acoustical ceiling panels. Use this selector as a guide to ensure that a perimeter molding meets your design criteria. For fire-rated applications, check the UL design for approved molding shapes and sizes.

Wall Molding and M12CE

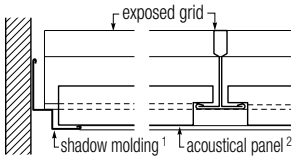
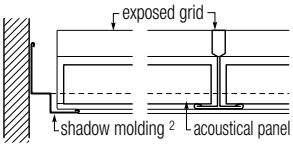
Shadowline edge at perimeter with Shadowline panel	Square edge at perimeter with Square edge panel	Square edge at perimeter with Shadowline panel
		

Typical Sizes

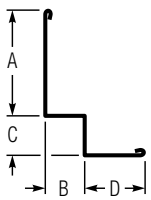


	A	B
M7, M7Z, M7A	**7/8″**	**7/8″**
M9	**15/16″**	**9/16″**
M12	**1-1/2″**	**1″**
MC11A	**1″**	**1″**
M7CE	**7/8″**	**7/8″**
M20, M20HD, M20SM	**1″**	**2″**

Shadow Molding

Shadowline edge at perimeter with Shadowline panel	Shadowline edge at perimeter with Square edge panel
	

Typical Sizes

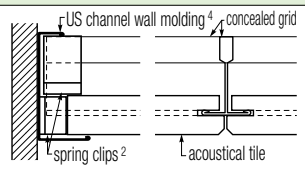


	A	B	C	D
MS124	**15/16″**	**1/4″**	**5/16″**	**15/16″**
MS134	**9/16″**	**1/4″**	**5/16″**	**3/4″**
MS144	**3/4″**	**3/8″**	**1/2″**	**3/4″**
MS154	**7/8″**	**3/4″**	**3/4″**	**7/8″**
MS164	**3/4″**	**3/4″**	**3/4″**	**3/4″**
MS174	**1″**	**3/8″**	**3/8″**	**9/16″**
MS274	**7/8″**	**3/4″**	**9/32″**	**1-1/4″**

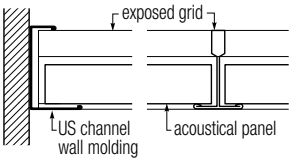
1. Shadowline tapered panel will result in mouse hole at molding.
2. Reveal depth will vary by product.
3. Detail requires field cut and reveal of perimeter panels.
4. US28 typical for concealed grid and tile.

US Channel Molding and US25CE

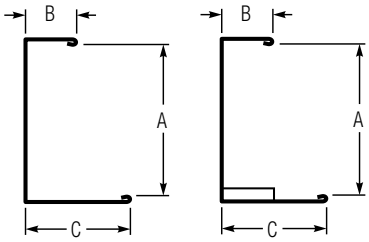
Square edge at perimeter of concealed grid and panel



Square edge at perimeter of square edge panel

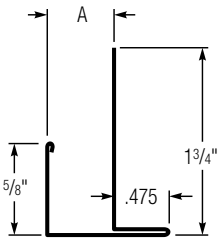


Typical Sizes

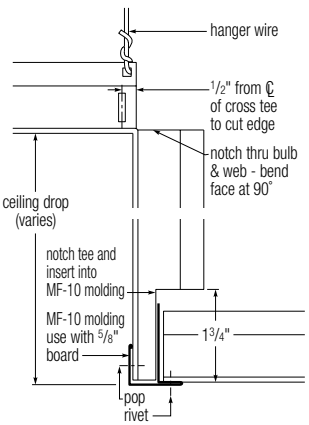


	A	B	C
US8	**1/2″**	**1/2″**	**1″**
US10	**5/8″**	**1/2″**	**1″**
US12	**3/4″**	**1/2″**	**1″**
US16	**1″**	**1/2″**	**1″**
US19	**1-3/16″**	**1/2″**	**1″**
US20	**1-1/4″**	**1/2″**	**1″**
US22	**1-3/8″**	**1/2″**	**1″**
US28	**1-11/16″**	**1/2″**	**1″**
US28CE	**1-11/16″**	**1/2″**	**1″**
US31	**1-15/16″**	**1/2″**	**1″**

MF Molding



Vertical-to-horizontal transition detail for suspension system



Typical Sizes

	A
MF8	**1/2″**
MF10	**5/8″**

Aspen™

ASPEN Panels/
DONN DX/DXL Suspension System

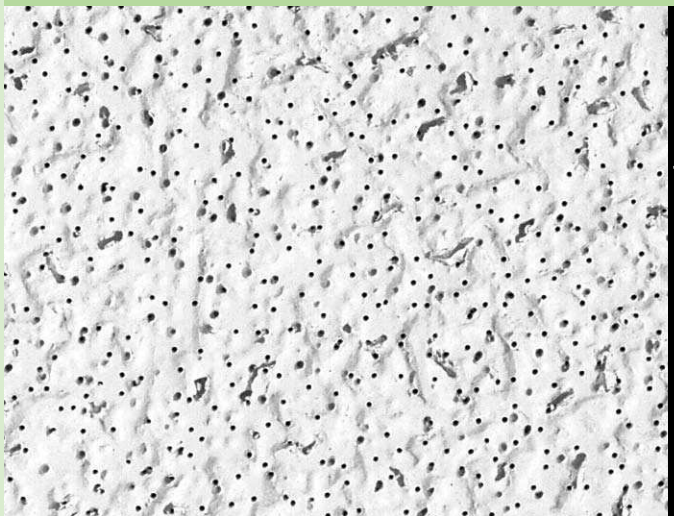
LEED Credits
Recycled Content: 29%

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
– Random, naturally sculptured appearance offers upscale look without upscale cost.
– Sizes and formulations meet most design criteria. Suitable for general applications.

Applications
– Schools
– General offices
– Retail stores

Substrate
– Water-felted mineral fiber



Medium-textured panel

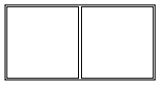
Call 888 874.2450 for samples

White

	Edge	Panel Size	Class	Item No.	UL Classified NRC	UL Classified CAC Min.	LR[3]	Color	Grid Options	VOC Emissions	Recycled Content[4]	Panel Cost
Aspen Panels	SLT	**2′x2′x3/4″**	Class A	**650**	.55	35	.87	White	A	Low	29%	**$$**
		2′x4′x3/4″	Class A	**651**	.55	35	.87	White	A	Low	29%	**$$**
Aspen Illusion Two/24 Panels The look of 2′x2′ panels	SLT[5]	**2′x4′x3/4″**	Class A	**652**	.50	40	.84	White	A	Low	29%	**$$**

Illusion Two/24

Face-Cut Patterns



Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

A
DX®/DXL™

Grid Profile Options

Physical Data/ Footnotes

Product literature
Data sheet: SC1809

ASTM E1264 classification
Aspen: Type III, Form 2, Pattern CDFI
Aspen Illusion: Type III, Form 2, Pattern CDFIK

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
1.43 lb./sq. ft. (Class A)
1.67 lb./sq. ft. (Illusion)

Thermal resistance
R-1.7 (3/4″ panels)

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Recommended suspensions
See the Grid and Edge selector.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. LR values are shown as averages.
4. For details, see Sustainability selector.
5. Panels have a 15/16″ routing.

Astro® *ClimaPlus*™

Astro Panels with *ClimaPlus* Superior Performance/
Donn Centricitee DXT Suspension System

LEED Credits

Recycled Content: 65% – 69%
ClimaPlus Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits

– Fine-textured, non-perforated, and non-fissured appearance offers highly desired aesthetic.
– *ClimaPlus* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a Donn® brand suspension system.
– Optional Firecode™ formulation designed to meet life safety codes.

Applications

– Schools
– Hospitals
– Healthcare facilities
– General offices
– Municipal buildings

Substrate

– X-Technology mineral fiber

Fine-textured panel

Call 888 874.2450 for samples

White

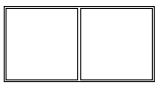
30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size	Class[3]	Item No.	NRC	CAC Min.	LR[4]	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content[5]	Panel Cost
Astro *ClimaPlus* Panels	SQ	**2′x2′x5/8″**	Class A	**8221**	.55	35	.86	White	A,B,C	Low	●	65%	**$$**
		2′x2′x3/4″	●	**8122**	.50	35	.86	White	A, D	Low	●	69%	**$$**
		2′x4′x5/8″	Class A	**8241**	.55	35	.86	White	A,B	Low	●	65%	**$$**
	SLT	**2′x2′x5/8″**	Class A	**8223**	.55	35	.86	White	E	Low	●	65%	**$$**
		2′x2′x3/4″	●	**8322**	.50	35	.86	White	E	Low	●	69%	**$$**
		2′x4′x5/8″	Class A	**8243**	.55	35	.86	White	E	Low	●	65%	**$$**
	FLB	**2′x2′x5/8″**	Class A	**8227**	.55	35	.86	White	F, H, I	Low	●	65%	**$$**
		2′x2′x3/4″	●	**8722**	.50	35	.86	White	G, J	Low	●	69%	**$$**
		2′x4′x5/8″	Class A	**8247**	.55	35	.86	White	F, H, I	Low	●	65%	**$$**
Astro *ClimaPlus* Illusion Two/24 Panels	SLT[6]	**2′x4′x3/4″**	Class A	**8742**	.55	35	.86	White	E	Low	●	65%	**$$**
	ILT[7]	**2′x4′x3/4″**	Class A	**8744**	.55	35	.86	White	K	Low	●	65%	**$$**

Illusion Two/24 The look of 2 x 2 panels

Patterns



Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Superior Performance[8]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

	A DX®/DXL™	**B** DXW™	**C**[9] Centricitee™ DXT	**D** Centricitee™ DXLT	**E** Donn DX/DXL	**F** Centricitee DXT	**G** Centricitee DXLT	**H** Fineline® DXF	**I** Fineline® 1/8 DXFF	**J** Fineline® DXLF	**K** Centricitee DXT
Grid Profile Options											

Physical Data/ Footnotes

Product literature
Data sheet: SC2321

ASTM E1264 classification
Astro: Type III, Form 1 and 2, Pattern G; Astro Illusion: Type III, Form 1, Pattern GK

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
0.85 lb./sq. ft. (Class A)
1.10 lb./sq. ft. (Firecode)

Thermal resistance
R-2.0 (Class A 5/8″)
R-2.4 (Class A 3/4″)
R-2.4 (Firecode 3/4″)

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Texture
Because the manufacturing process for Astro *ClimaPlus* ceiling panels can potentially create subtle texture variations, we recommend ordering and installing this product by production lot number.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Fire-rated items: see UL design details.
4. LR values are shown as averages.
5. For details, see Sustainability selector.
6. Panels have a 15/16″ routing.
7. Panels have a 9/16″ routing.
8. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).
9. Maximum 2′x 2′ with SQ Edge panels.

Brio™ *ClimaPlus*™

Brio Panels with *ClimaPlus* Superior Performance/
Donn Centricitee DXT Suspension System

LEED Credits

Recycled Content: 71%
ClimaPlus Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits

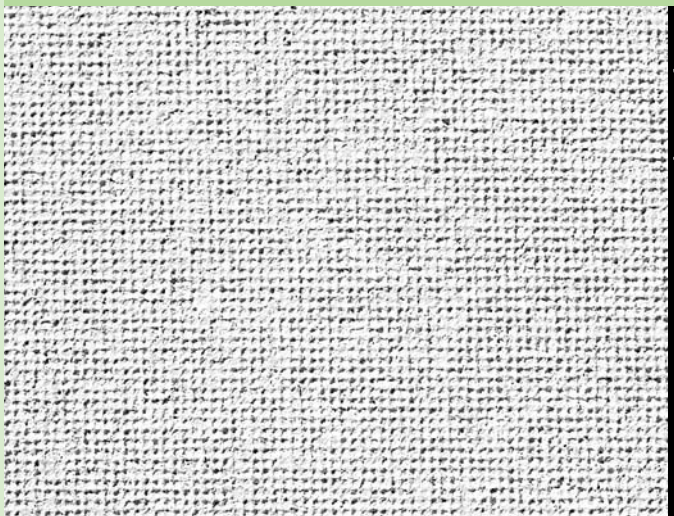
– Uniquely textured cast product with durable surface that resists scrapes commonly caused by accessing the ceiling plenum.
– Integral color masks nicks and scratches and enhances lifelong panel appearance.
– *ClimaPlus* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a Donn® brand suspension system.

Applications

– Conference and lobby areas
– Executive offices
– Entertainment and gaming
– Hospitality
– Schools

Substrate

– Cast mineral fiber



Heavily textured panel

Call 888 874.2450 for samples

White

30 Year System Warranty
– No visible sag
– Mold/mildew protection

	Edge	Panel Size	Class	Item No.	UL Classified NRC	CAC Min.	LR[3]	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Abuse-Resistant	Recycled Content[4]	Panel Cost
Brio™ *ClimaPlus*™ Panels	SL	**2′x2′x3/4″** Paper-Back	Class A	**308**	.70	35	.81	White	A	Zero	●	●	71%	**$$**
	FL	**2′x2′x3/4″** Paper-Back	Class A	**309**	.70	35	.81	White	B, C, D	Zero	●	●	71%	**$$**

Legend

Zero Emissions (VOC Class)
Classified as zero-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Superior Performance[5]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

	A	B	C	D
	DX®/DXL™	Centricitee™\ DXT	Fineline® DXF	Fineline® 1/8 DXFF
Grid Profile Options				

Physical Data/ Footnotes

Product literature
Data sheet: SC2349

ASTM E1264 classification
Type III, Form 4, Pattern Z

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
1.65 lb./sq. ft.

Thermal resistance
R-1.7

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Texture
The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing feature of these products. Because of potential variances between production dates, we recommend ordering and installing cast products by production date code.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. LR values are shown as averages.
4. For details, see Sustainability selector.
5. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria.

For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Clean Room™ *ClimaPlus*™

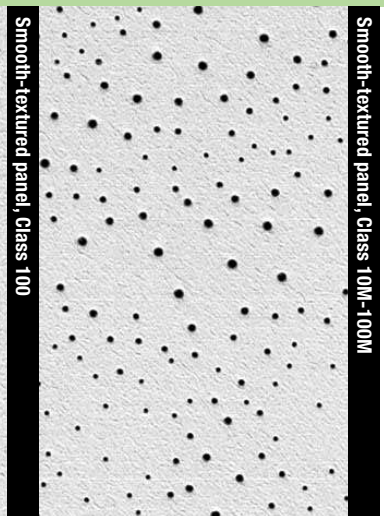
Clean Room Class 10M–100M Panels with *ClimaPlus* Performance/
Donn DXLA Suspension System

LEED Credits
Recycled Content: 51%
ClimaPlus No-Sag Warranty

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
	●	●	●		●	●

Features and Benefits
- Clean Room™ *ClimaPlus*™ Class 100 and Class 10M-100M panels have an embossed, vinyl-laminated face with sealed back and edges for use in Class 100 or 10M-100M clean rooms.
- Firecode™ formulation designed to meet life safety codes.
- *ClimaPlus* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a Donn® brand suspension system.

Substrate
- Water-felted mineral fiber



Call 888 874.2450 for samples

White

30 Year System Warranty – No visible sag

UL Classified

	Edge	Panel Size	Class[2]	Item No.	NRC[3]	CAC Min.	LR[4]	Color	Grid Options	Recycled Content[5]	Panel Cost
Clean Room *ClimaPlus* Class 100 Panels	SQ	**2′x2′x5/8″**		**56099**	—	35	.79	White	A, B, C, D, E	51%	**$$**
		2′x4′x5/8″		**56091**	—	35	.79	White	A, B, C, D, E	51%	**$$**
Clean Room *ClimaPlus* Class 10M-100M Panels	SQ	**2′x2′x5/8″**		**56060**	.55	35	.79	White	A, B, C, D, E	51%	**$$**
		2′x4′x5/8″		**56090**	.55	35	.79	White	A, B, C, D, E,	51%	**$$**

	A DX®/DXL™	**B** DXLA™	**C** ZXLA™	**D** AX™	**E** CE™[7]
Grid Profile Options[6]					

Physical Data/ Footnotes

Product literature
Data sheet: SC1811

ASTM E1264 classification
Class 100: Type X, Pattern GI
Class 10-100M: Type X, Pattern CGI

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
1.1 lb./sq. ft. (Class 100 panels)
1.2 lb./sq. ft. (Class 10M-100M panels)

Thermal resistance
R-16

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a damp sponge, mild detergent and water. Do not use acetate, ammonia, or highly concentrated chlorine, bromide or other harsh chemicals.

Footnotes
1. Dependent on location; see Sustainability selector.
2. Fire-rated items: see UL design details.
3. NRC rating Clean Room *ClimaPlus* Class 100 panels is .10. USG does not consider a ceiling panel to be acoustically rated if NRC is less than .50.
4. LR values are shown as averages.
5. For details, see Sustainability selector.
6. Field-cut edges of Clean Room panels may be sealed with white latex paint.
7. Clean-room-rated applications require a suspension system with gasketed tee flanges such as Donn CE.

Eclipse™ *ClimaPlus*™

10

Year Availability
76575, 76775, 76975, 78575, 78775

ECLIPSE Panels with *CLIMAPLUS* Superior Performance/
DONN FINELINE DXF Suspension System

LEED Credits
Recycled Content: 62% – 77%
CLIMAPLUS Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
- NRC performance of .70.
- Optional FIRECODE™ formulation.
- *CLIMAPLUS* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a DONN® brand suspension system.
- Panel used in RENDITIONS™ face-routed ceiling systems (see IC327).

Applications
- Schools
- Hotels
- Lobbies
- General office and conference areas
- Transportation terminals

Substrate
- X-Technology mineral fiber

Fine-textured panel

Call 888 874.2450 for color samples
See individual items for color availability.

White

Standard Colors

Parchment 103 Manila 246 Beige 142 Straw 143 Sandstone 090

Taupe 107

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size Imperial Metric (mm)[3]	Class[4]	Item No. Imperial Metric	NRC	CAC Min.	LR[5]	Color[6]	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content[7]	Panel Cost
Eclipse *ClimaPlus* Panels	SQ	**2′x2′x3/4″**	Class A	**76575**	.70	35	.86	White	A, B, C	Low	●	77%	**$$**
		2′x4′x3/4″	Class A	**78575**	.70	35	.86	White	A, B	Low	●	77%	**$$**
	SLT	**2′x2′x3/4″** 600x600x19	Class A	**76775** ME76775	.70	35	.86	White Standard	D	Low	●	77%	**$$**
		2′x2′x3/4″		**76779**	.60	35	.86	White	D	Low	●	62%	**$$**
		2′x4′x3/4″	Class A	**78775**	.70	35	.86	White	D	Low	●	77%	**$$**
	FL	**2′x2′x3/4″** 600x600x19	Class A	**76975** ME76975	.70	35	.86	White Standard	E, G, H	Low	●	77%	**$$**
		2′x2′x3/4″		**76979**	.60	35	.86		F, I	Low	●	62%	**$$**
		2′x4′x3/4″	Class A	**78975**	.70	35	.86	White	E, G, H	Low	●	77%	**$$**
Eclipse *ClimaPlus* Tile[8,9]	BESK	**12″x12″x3/4″**	Class A	**70073**	.60	40	.86	White	J	Low	●	77%	**$$$$**

Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Superior Performance[10]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

	A	B	C	D	E	F	G	H	I	J
	DX®/DXL™	DXW™	Centricitee™ DXT	DX/DXL	Centricitee DXT	Centricitee DXLT	Fineline® DXF	Fineline® 1/8 DXFF	Fineline® DXLF	DX®/DXL™ Concealed
Grid Profile Options										

Physical Data/ Footnotes

Product literature
Data sheet: SC1812

ASTM E1264 classification
Type III, Form 1, Pattern EI

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Imperial weight
.97 lb./sq. ft. (Class A panels and tile)
1.2 lb./sq. ft. (Firecode panels)

Metric weight
5.07 kg/m2 (Class A panels)

Thermal resistance
R-2.0 (Class A)
R-1.9 (Firecode)

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Patented technology
This product's unique combination of sag resistance and sound performance results from a technology covered by U.S. Patent No. 5,250,153.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Metric available in white only.
4. Fire-rated items: see UL design details.
5. LR values shown as averages.
6. See Colors selector for more information. Metric: white only.
7. For details, see Sustainability selector.
8. Contact USG for adhesive recommendations for 12″x12″ glue-up applications.
9. Not UL Classified for acoustics.
10. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus* Ceilings *Certification of Performance* (SC2451).

Eclipse™ *ClimaPlus*™ Illusion and Pedestals

10
Year Availability
78785

ECLIPSE Pedestals IV Panels with *CLIMAPLUS* Superior Performance/ DONN CENTRICITEE DXT Suspension System

LEED Credits
Recycled Content: 77%
CLIMAPLUS Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
- A variety of face scores create the illusion of a smaller-scaled ceiling system without compromising accessibility.
- Solid NRC performance of up to .70 meets general office acoustical needs for sound absorption.
- *CLIMAPLUS* 30-year lifetime system warranty to withstand temperature and humidity conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a DONN® brand suspension system.

Applications
- Boutiques
- Schools
- Reception lobbies
- Transportation terminals

Substrate
- X-Technology mineral fiber

Fine-textured panel

Call 888 874.2450 for samples

White

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.[3]	LR[4]	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content[5]	Panel Cost
Eclipse *ClimaPlus* Illusion Two/24 Panels The look of 2′x2′ panels	SLT[6]	**2′x4′x3/4″**	Class A	**78785**	.70	35	.84	White	A	Low	●	77%	**$$**
	ILT[7]	**2′x4′x3/4″**	Class A	**78085**	.70	35	.84	White	B	Low	●	77%	**$$**
Eclipse *ClimaPlus* Pedestals I Panels Triple-step scoring	PE/SLT	**2′x2′x3/4″**	Class A	**72715**	.65	35	.84	White	C	Low	●	77%	**$$**
	PE/ILT	**2′x2′x3/4″**	Class A	**72015**	.65	35	.84	White	D	Low	●	77%	**$$**
Eclipse *ClimaPlus* Pedestals IV Panels Triple-step scoring in 12″x12″ modules	PE/SLT[6]	**2′x2′x3/4″**	Class A	**72716**	.65	35	.84	White	C	Low	●	77%	**$$**
	PE/ILT[7]	**2′x2′x3/4″**	Class A	**72215**	.65	35	.84	White	D	Low	●	77%	**$$**

Patterns

Illusion Two/24	Pedestals I	Pedestals IV

Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Superior Performance[8]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

Grid Profile Options

A	B	C	D
DX®/DXL™	Centricitee™ DXT	DX/DXL	Centricitee DXT

Physical Data/ Footnotes

Product literature
Data sheet: SC1846

ASTM E1264 classification
Type III, Form 1, Pattern EIK (Illusion) or Pattern EI (Pedestals)

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
.97-1.2 lb./sq. ft.

Thermal resistance
R-2.0

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Patented technology
This product's unique combination of sag resistance and sound performance results from a technology covered by U.S. Patent No. 5,250,153.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
4. LR values are shown as averages.
5. For details, see Sustainability selector.
6. Panels have a 15/16″ routing.
7. Panels have a 9/16″ routing.
8. Panel face and back surfaces treated with a patented, broad-spectrum anti-microbial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus* Ceilings *Certification of Performance* (SC2451

Note
Panels with face routing do not carry USG's *ClimaPlus* non-sag warranty. Refer to standard commercial ceilings warranty.

“F” Fissured™

10
Year Availability
132

“F” Fissured Panels/
Donn Centricitee DXT Suspension System

LEED Credits
Recycled Content: 71%

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
– Cast product with durable surface that resists scrapes commonly caused by accessing the ceiling plenum.
– Combine 12″x12″ tile with the Donn® brand DX®/DXL™ concealed suspension system to create a nearly monolithic ceiling surface.

Applications
– Administrative offices
– Schools
– Financial institutions
– Religious buildings

Substrate
– Cast mineral fiber

Medium-textured panel

Call 888 874.2450 for samples

White

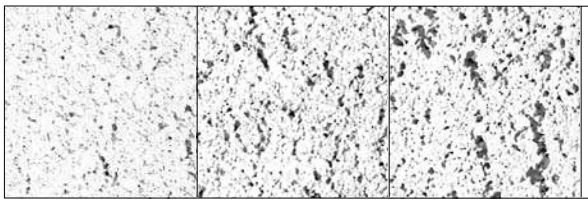
	Edge	Panel Size	Class	Item No.	UL Classified NRC	CAC Min.	LR[3]	Color	Grid Options	VOC Emissions	Abuse-Resistant	Recycled Content[4]	Panel Cost
"F" Fissured Panels	SQ	**2′x2′x3/4″** Foil-Back	Class A	**131**	.70	35	.79	White	A, B, C	Zero		71%	**$$**
		2′x4′x3/4″ Foil-Back	Class A	**135**	.70	35	.79	White	A, B	Zero		71%	**$$**
	SL	**2′x2′x3/4″** Foil-Back	Class A	**132**	.70	35	.79	White	D	Zero		71%	**$$**
		2′x4′x3/4″ Foil-Back	Class A	**136**	.70	35	.79	White	D	Zero		71%	**$$**
	FL	**2′x2′x3/4″** Foil-Back	Class A	**133**	.70	35	.79	White	E, F, G	Zero		71%	**$$**
"F" Fissured Tile[5,6]	BESK	**12″x12″x3/4″**	Class A	**102**	.70	25	.79	White	H	Zero		71%	**$$$$**
	SESK	**12″x12″x3/4″**	Class A	**101**	.70	25	.79	White	I	Zero		71%	**$$$$**

Legend

Zero Emissions (VOC Class)
Classified as zero-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

Grid Profile Options

A	B	C	D	E	F	G	H	I
DX®/DXL™	DXW™	Centricitee™ DXT	DX/DXL	Centricitee DXT	Fineline® DXF	Fineline® 1/8 DXFF	DX®/DXL™ Concealed	DX/DXL Concealed



Composite of "F" Fissured ceiling products shows range to be expected in a production lot, and possibly in the same panel or tile. Ranges are random and cannot be specified. Texture appearance will vary based on ceiling height, installation methods, and natural variations of the product.

Physical Data/ Footnotes

Product literature
Data sheet: SC1816

ASTM E1264 classification
Type III, Form 4, Pattern D

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
1.75 lb./sq. ft.

Thermal resistance
R-1.7

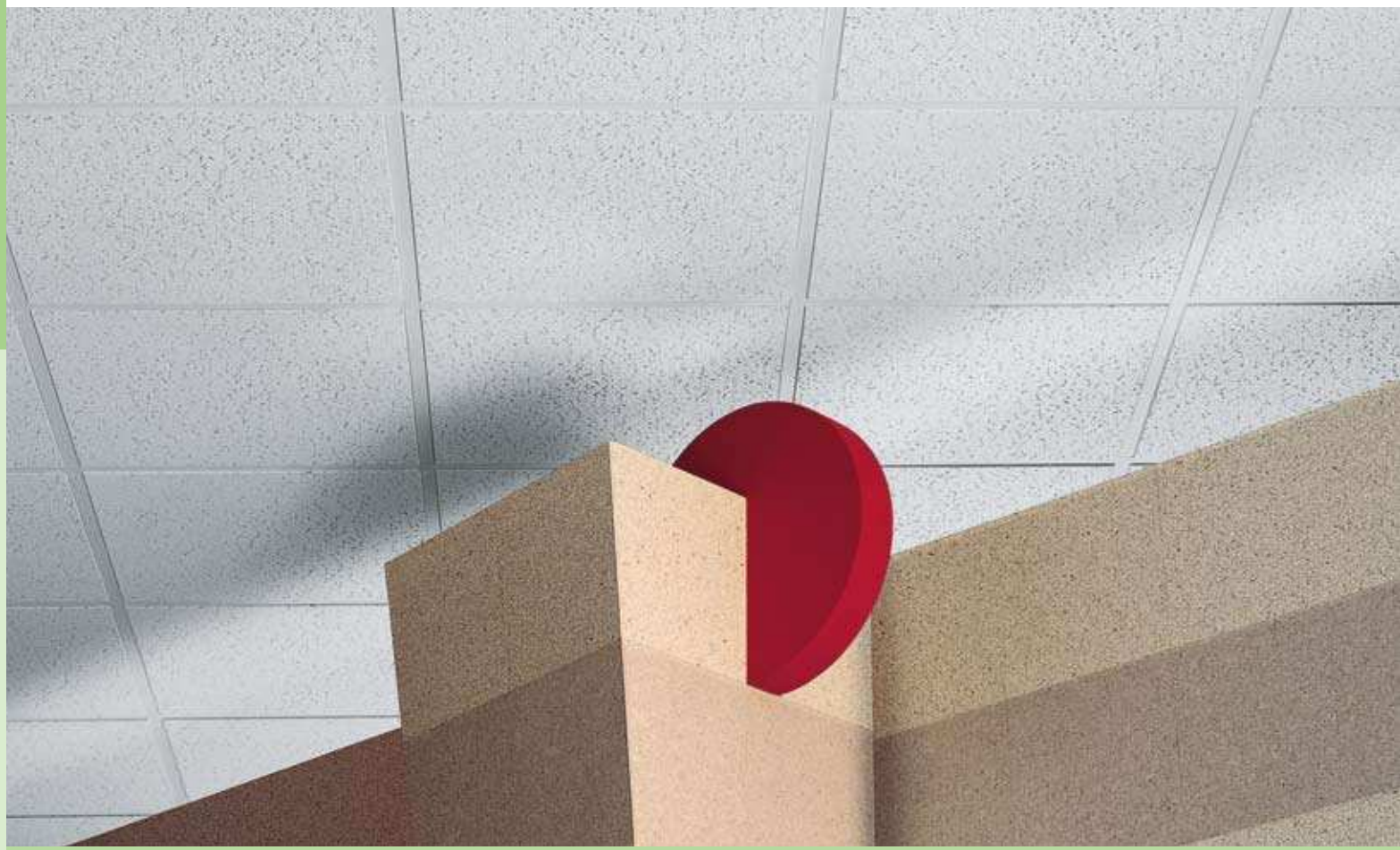
Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Texture
The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing feature of these products. Because of potential variances between production dates, we recommend ordering and installing cast products by production lot number.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. LR values are shown as averages.
4. For details, see Sustainability selector.
5. Contact USG for adhesive recommendations for 12″x12″ glue-up applications.
6. Not UL Classified for acoustics.

Fissured™



FISSURED Panels/
DONN DX/DXL Suspension System

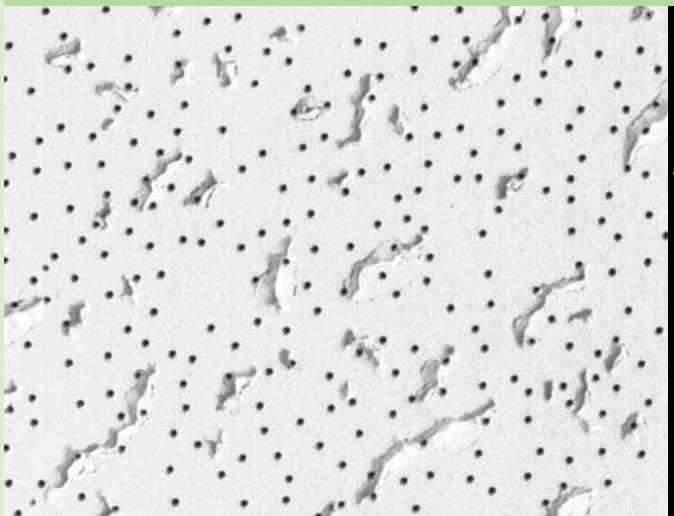
LEED Credits
Recycled Content: 25% – 50%

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
– Economical, all-purpose ceiling pattern available in various panel sizes.
– Optional FIRECODE™ formulation designed to meet life safety codes.

Applications
– Administrative offices
– Corridors
– Mass merchandisers
– Convenience stores

Substrate
– Water-felted mineral fiber



Medium-textured panel

Call 888 874.2450 for samples

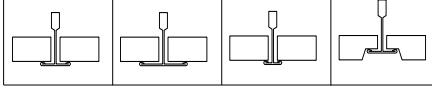
White

	Edge	Panel Size	Class[3]	UL Classified Item No.	NRC	CAC Min.	LR[4]	Color	Grid Options	VOC Emissions	Recycled Content[5]	Panel Cost
Fissured Panels	SQ	**2′x2′x5/8″**	Class A	**560**	.55	33	.81	White	A, B, C	Low	25%	**$**
		2′x2′x5/8″		**585**	.55	35	.81	White	A	Low	48 – 50%	**$**
		2′x4′x5/8″	Class A	**562**	.55	35	.81	White	A, B	Low	25%	**$**
		2′x4′x5/8″		**586**	.55	35	.81	White	A	Low	48 – 50%	**$**
	SLT	**2′x2′x5/8″**	Class A	**506**	.55	33	.81	White	D	Low	25%	**$**
		2′x4′x5/8″	Class A	**507**	.55	35	.81	White	D	Low	25%	**$**

Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

	A	B	C	D
Grid Profile Options	DX®/DXL™	DXW™	Centricitee™ DXT	DX/DXL



Physical Data/ Footnotes

Product literature
Data sheet: SC1815

ASTM E1264 classification
Type III, Form 2, Pattern CD

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
.61-1.2 lb./sq. ft. (Class A)
1.14-1.22 lb./sq. ft. (Firecode)

Thermal resistance
R-1.4 (Class A)
R-1.6 (Firecode)

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Fire-rated items: see UL design details.
4. LR values are shown as averages.
5. For details, see Sustainability selector.

Fresco™ *ClimaPlus*™

Fresco Panels with *ClimaPlus* Superior Performance/
Donn Fineline 1/8 DXFF Suspension System

LEED Credits

Recycled Content: 71%
ClimaPlus Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits

– Uniquely textured cast product with durable surface that resists scrapes commonly caused by accessing the ceiling plenum.
– Integral color masks nicks and scratches and enhances lifelong panel appearance.
– *ClimaPlus* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a Donn® brand suspension system.

Applications

– Conference and lobby areas
– Department stores
– Entertainment and gaming
– Executive offices
– Media centers
– Hospitality

Substrate

– Cast mineral fiber

Heavily textured panel

Call 888 874.2450 for samples

White

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[3]	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Abuse-Resistant	Recycled Content[4]	Panel Cost
Fresco *ClimaPlus* Panels	SL	**2′x2′x3/4″** Paper-Back	Class A	**608**	.70	35	.83	White	A	Zero	●	●	71%	**$$**
	FL	**2′x2′x3/4″** Paper-Back	Class A	**609**	.70	35	.83	White	B, C, D	Zero	●	●	71%	**$$**

Legend

Zero Emissions (VOC Class)
Classified as zero-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Superior Performance[5]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

	A	B	C	D
	DX®/DXL™	Centricitee™ DXT	Fineline® DXF	Fineline® 1/8 DXFF
Grid Profile Options				

Physical Data/ Footnotes

Product literature
Data sheet: SC2348

ASTM E1264 classification
Type III, Form 4, Pattern Z

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
1.65 lb./sq. ft.

Thermal resistance
R-1.7

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Texture
The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing feature of these products. Because of potential variances between production dates, we recommend ordering and installing cast products by production lot number.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. LR values are shown as averages.
4. For details, see Sustainability selector.
5. Panel face and back surfaces are treated with USG's superior performing, patented, broad-spectrum antimicrobial treatment. This standard formulation inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Frost™

10
Year Availability
450

Frost Panels/
Donn Fineline DXF Suspension System

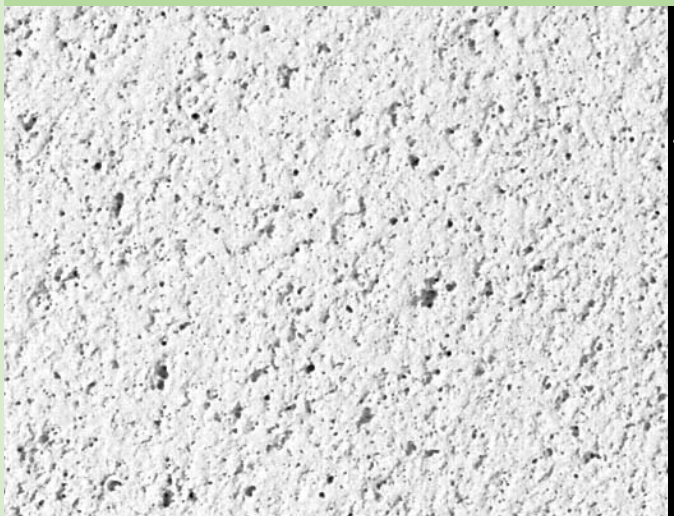
LEED Credits
Recycled Content: 70% – 71%

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
- Fine-textured cast product with durable surface that resists scrapes caused by accessing the ceiling plenum.
- Integral color masks nicks and scratches to enhance lifelong panel appearance.
- Optional Firecode™ formulation designed to meet life safety codes.
- Nearly two times more impact resistant than typical fine-textured ceiling panels (ASTM C367 – 2″ ball hardness test).

Applications
- Conference and lobby areas
- Executive offices
- Hospitality
- Retail stores
- Transportation terminals

Substrate
- Cast mineral fiber



Fine-textured panel

Call 888 874.2450 for samples

White

	Edge	Panel Size	Class[3]	Item No.	UL Classified NRC	UL Classified CAC Min.	LR[4]	Color	Grid Options	VOC Emissions	Abuse-Resistant	Recycled Content[5]	Panel Cost
Frost Panels	SLB	**2′x2′x3/4″** Foil-Back	Class A	**440**	.70	40	.83	White	A	Zero	✓	71%	**$$**
		2′x2′x3/4″ Foil-Back		**415**	.55	35	.83	White	A	Zero	✓	70%	**$$**
		2′x4′x3/4″ Paper-Back	Class A	**450**	.70	38	.83	White	A	Zero	✓	71%	**$$**
	FL	**2′x4′x3/4″** Paper-Back	Class A	**460**	.70	38	.83	White	B, C, D	Zero	✓	71%	**$$**
Frost Pedestals I Panels Triple-step scoring	PE/IL	**2′x2′x3/4″** Paper-Back	Class A	**400**	.70	35	.83	White	E	Zero	✓	71%	**$$$**

Legend

Zero Emissions (VOC Class)
Classified as zero-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

Grid Profile Options	**A** DX®/DXL™	**B** Centricitee™ DXT	**C** Fineline® DXF	**D** Fineline® 1/8 DXFF	**E** Centricitee DXT

Physical Data/ Footnotes

Product literature
Data sheet: SC1817

ASTM E1264 classification
Type III, Form 4, Pattern E

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
1.65-1.7 lb./sq. ft.

Thermal resistance
R-1.7 (Class A)
R-1.1 (Firecode)

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Impact resistance
ASTM C367 – tested to min. 190 lbf. for 1/4″ depression by a 2″ steel ball.

Texture
The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing feature of these products. Because of potential variances between production dates, we recommend ordering and installing cast products by production lot number.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Fire-rated items: see UL design details.
4. LR values are shown as averages.
5. For details, see Sustainability selector.

Frost™ *ClimaPlus*™

10
Year Availability
414, 418, 419

Frost Panels with *ClimaPlus* Superior Performance/
Donn Fineline 1/8 DXFF Suspension System

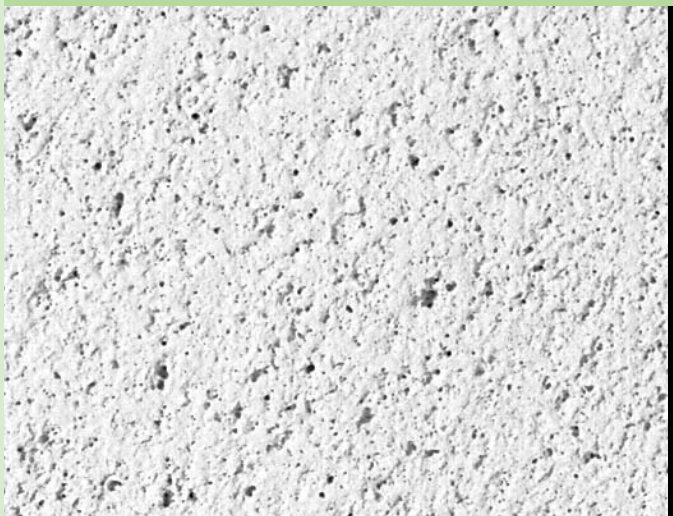
LEED Credits
Recycled Content: 71%
ClimaPlus Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
- Fine-textured cast product with durable surface that resists scrapes commonly caused by accessing the ceiling plenum.
- Integral color masks nicks and scratches.
- Nearly two times more impact-resistant than typical fine-textured ceiling panels (ASTM C367).
- *ClimaPlus* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a Donn® brand suspension system.

Applications
- Boutiques
- Schools
- Conference and lobby areas
- Executive offices
- Open-plan offices

Substrate
- Cast mineral fiber



Fine-textured panel

Call 888 874.2450 for color samples
See individual items for color availability.

Standard Colors

White, Parchment 103, Manila 246, Beige 142, Straw 143, Sandstone 090, Taupe 107, Charcoal 534, Flat Black 205

Advantage Colors

Silvertone 052, Breeze 2659, Blue Grey 564, Azure 2660, Slate 568, Spruce 567, Tuscany 2663, Sorbet 2658, Squash 2662, Safari 2662, Redwood 566, Sienna 565, Halo 206, Mist 053, Nectar 546, Quartz 082

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.[3]	LR[4]	Color[5]	Grid Options	VOC Emissions	Anti-Mold & Mildew	Abuse-Resistant	Recycled Content[6]	Panel Cost
Frost *ClimaPlus* Panels	SLB	**2′x2′x3/4″** Paper-Back	Class A	**414**	.70	38	.83	White Standard Advantage	A	Zero	●	●	71%	**$$**
	FL	**2′x2′x3/4″** Paper-Back	Class A	**418**	.70	38/40	.83	White Standard Advantage	B, C, D	Zero	●	●	71%	**$$**
	FLB	**2′x2′x3/4″** Paper-Back	Class A	**419**	.70	38/40	.83	White Standard Advantage	B, C, D	Zero	●	●	71%	**$$**
Frost *ClimaPlus* High LR	SLB	**2′x2′x3/4″** Paper-Back	Class A	**490**	.70	35	.88	White	A	Zero	●	●	71%	**$$**
	FLB	**2′x2′x3/4″** Paper-Back	Class A	**491**	.70	35	.88	White	B, C, D	Zero	●	●	71%	**$$**

Legend

Zero Emissions (VOC Class)
Classified as zero-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Superior Performance[7]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

	A	B	C	D
	DX®/DXL™	Centricitee™ DXT	Fineline® DXF	Fineline® 1/8 DXFF
Grid Profile Options				

Physical Data/ Footnotes

Product literature
Data sheet: SC1968

ASTM E1264 classification
Type III, Form 4, Pattern E

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
1.65 lb./sq. ft.

Thermal resistance
R-1.7 (Class A)

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Texture
The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing feature of these products. Because of potential variances between production dates, we recommend ordering and installing cast products by production lot number.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Item Nos. 418 and 419 achieve 40 CAC when installed with Fineline or Fineline 1/8 suspension system.
4. LR values are shown as averages.
5. See Colors selector for more information.
6. For details, see Sustainability selector.
7. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Glacier™

10
Year Availability
707, 708, 711

GLACIER Panels/
DONN FINELINE DXFF Suspension System

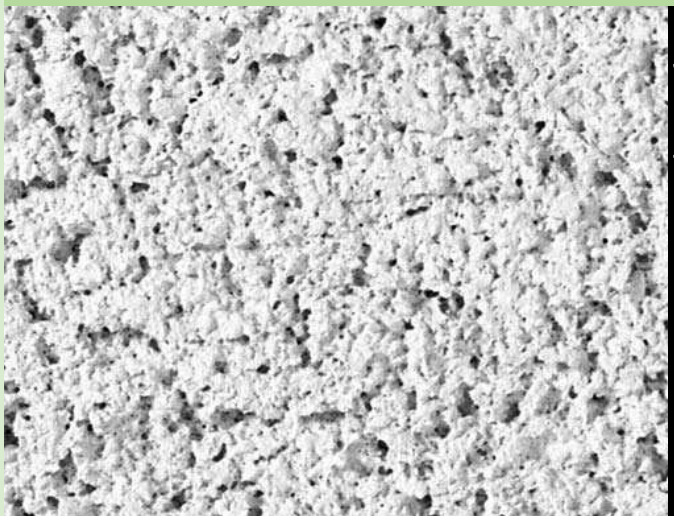
LEED Credits
Recycled Content: 70% – 71%

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
- Heavily textured cast product with durable surface that resists scrapes commonly caused by accessing the ceiling plenum.
- Combine 12″x12″ tile with the DONN® brand DX®/DXL™ concealed suspension system to create a monolithic ceiling surface.
- Integral color masks nicks and scratches and enhances lifelong panel appearance.
- Optional FIRECODE™ formulation designed to meet life safety codes.

Applications
- Food courts
- Hospitality
- Libraries
- Restaurants

Substrate
- Cast mineral fiber



Heavy-textured panel

Call 888 874.2450 for color samples
See individual items for color availability.

Standard Colors

White, Parchment 103, Manila 246, Beige 142, Straw 143, Sandstone 090, Taupe 107, Charcoal 534, Flat Black 205

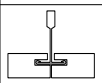
Advantage Colors

Silvertone 052, Breeze 2659, Blue Grey 564, Azure 2660, Slate 568, Spruce 567, Tuscany 2663, Sorbet 2658, Squash 2662, Safari 2662, Redwood 566, Sienna 565, Halo 206, Mist 053, Nectar 546, Quartz 082

	Edge	Panel Size	Class	Item No.	UL Classified NRC	CAC Min.	LR[3]	Color[4]	Grid Options	VOC Emissions	Abuse-Resistant	Recycled Content[5]	Panel Cost
Glacier Panels	SL	**2′x2′x3/4″** Foil-Back	Class A	**707**	.65	35	.70	White Standard Advantage	A	Zero	✓	71%	**$$**
		2′x2′x3/4″ Foil-Back	✓	**715**	.65	35	.70	White	A	Zero	✓	70%	**$$**
		2′x4′x3/4″ Foil-Back	Class A	**711**	.65	35	.70	White	A	Zero	✓	71%	**$$**
	FL	**2′x2′x3/4″** Foil-Back	Class A	**708**	.65	35	.70	White Standard Advantage	B, C, D	Zero	✓	71%	**$$**
Glacier Tile[1,6,7,8]	SESK	**12″x12″x3/4″**	Class A	**701**	.65	25	.70	White	E	Zero	✓	71%	**$$$$**

Legend

Zero Emissions (VOC Class)
Classified as zero-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

	A	B	C	D	E
	DX®/DXL™	Centricitee™ DXT	Fineline® DXF	Fineline® 1/8 DXFF	DX®/DXL™ Concealed
Grid Profile Options					

Physical Data/ Footnotes

Product literature
Data sheet: SC1819

ASTM E1264 classification
Type III, Form 4, Pattern F

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
1.45 lb./sq. ft. (Class A panels and tile)
1.50 lb./sq. ft. (Firecode panel)

Thermal resistance
R-1.7 (Class A)
R-1.3 (Firecode)

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Texture
The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing feature of these products. Because of potential variances between production dates, we recommend ordering and installing cast products by production lot number.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. LR values are shown as averages.
4. See Colors selector for more information.
5. For details, see Sustainability selector.
6. Texture appearance will vary based on ceiling height, installation methods, and natural variation of the product.
7. Contact USG for adhesive recommendation for 12″ x 12″ glue-up applications.
8. Not UL Classified for acoustics.

Halcyon™ *ClimaPlus*™

10
Year Availability
98241, 98245, 97221

HALCYON Panels with *CLIMAPLUS* Performance/
DONN FINELINE 1/8 DXFF Suspension System

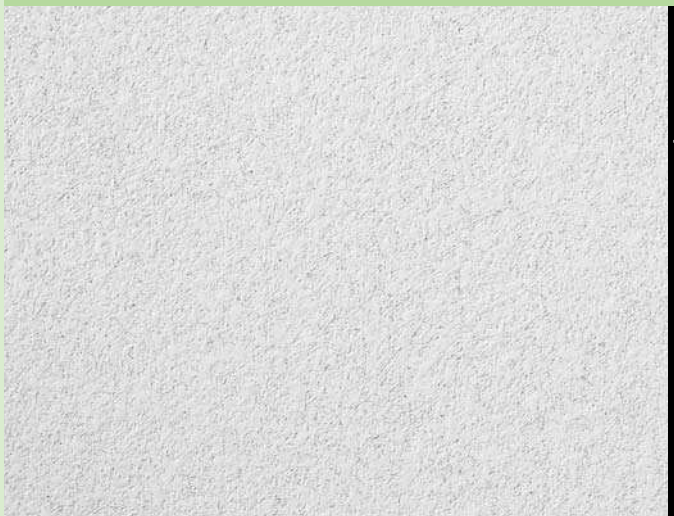
LEED Credits
Recycled Content: 40% – 42%
CLIMAPLUS No-Sag Warranty

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
	●	●			●	●

Features and Benefits
- Exceptional noise reduction with NRC values up to 1.00 for open-plan offices.
- Fine, monolithic texture.
- Light reflectance of .88 is part of an "indirect lighting" solution.
- Low-maintenance panels look new for years to come.
- *CLIMAPLUS*™ 30-year lifetime warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a DONN® brand suspension system.

Applications
- Open-plan offices
- Offices with indirect lighting
- Reception and lobby areas
- Libraries

Substrate
- Fiberglass



Fine-textured panel

Call 888 874.2450 for samples

White

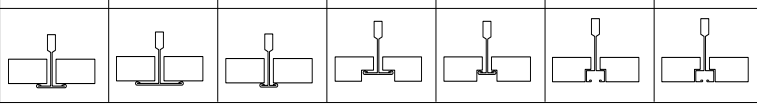
30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size[2]	Class	Item No.	NRC	CAC Min.	LR[3]	Color	Grid Options	Anti-Mold & Mildew	Recycled Content[4]	Panel Cost
Halcyon *ClimaPlus* Panels	SQ	**2′x2′x3/4″**	Class A	**97221**	.90	20	.88	White	A, B, C	○	40%	**$$**
		2′x4′x3/4″	Class A	**97241**	.90	20	.88	White	A, B	○	40%	**$$**
		2′x2′x1″	Class A	**98221**	.95	20	.88	White	A, B, C	○	41%	**$$**
		30″x30″x1″	Class A	**98331**	.95	20	.88	White	A, B, C	○	41%	**$$$**
		2′x2′x1″ Foil-Back	Class A	**88221**	.90	30	.88	White	A, B, C	○	41%	**$$**
		2′x4′x1″	Class A	**98241**	.95	20	.88	White	A, B	○	41%	**$$**
		2′x4′x1″ Foil-Back	Class A	**88223**	.90	30	.88	White	A, B	○	41%	**$$**
		2′x4′x1-1/2″	Class A	**99241**	1.00	25	.88	White	A, B	○	42%	**$$**
		2′x4′x1-1/2″ Foil-Back	Class A	**88224**	.95	30	.88	White	A, B	○	42%	**$$**
		2′x2′x1-1/2″	Class A	**99221**	1.00	25	.88	White	A, B, C	○	42%	**$$**
	SL	**2′x2′x1″**	Class A	**98223**	.95	20	.88	White	D	○	41%	**$$**
		2′x2′x1″ Foil-Back	Class A	**88225**	.90	30	.88	White	D	○	41%	**$$**
		2′x4′x1″	Class A	**98243**	.95	20	.88	White	D	○	41%	**$$**
		30″x30″x1″	Class A	**98333**	.95	20	.88	White	D	○	41%	**$$$**
		2′x4′x1″ Foil-Back	Class A	**88226**	.90	30	.88	White	D	○	41%	**$$**
		2′x2′x1-1/2″	Class A	**99223**	1.00	25	.88	White	D	○	42%	**$$**
	FL	**2′x2′x1″**	Class A	**98225**	.95	20	.88	White	E, F, G	○	41%	**$$**
		2′x4′x1″	Class A	**98245**	.95	20	.88	White	E, F, G	○	41%	**$$**
		30″x30″x1″	Class A	**98335**	.95	20	.88	White	E, F, G	○	41%	**$$$**
		2′x2′x1″ Foil-Back	Class A	**88227**	.90	30	.88	White	E, F, G	○	41%	**$$**
		2′x2′x1-1/2″	Class A	**99225**	1.00	25	.88	White	E, F, G	○	42%	**$$**

Grid Profile Options

A	B	C	D	E	F	G
DX®/DXL™	DXW™	Centricitee™ DXT	DX/DXL	Centricitee DXT	Fineline® DXF	Fineline® 1/8 DXFF



Legend

○ ***ClimaPlus* Inherent Performance[5]**
Fiberglass substrate is inherently resistant to the growth of mold, mildew and bacteria.

Physical Data/ Footnotes

Product literature
Data sheet: SC2365

ASTM E1264 classification
Type XII, Form 2, Pattern G

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
0.38 lb./sq. ft. (3/4″ panels)
0.47 lb./sq. ft. (1″ panels)
0.68 lb./sq. ft. (1-1/2″ panels)

Thermal resistance
R-3.3 (3/4″ panels)
R-4.4 (1″ panels)
R-6.6 (1-1/2″ panels)

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. Dependent on location; see Sustainability selector.
2. Custom-size panels available. Please contact your USG sales representative for details.
3. LR values are shown as averages.
4. For details, see Sustainability selector.
5. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Halcyon™ *ClimaPlus*™ Planks and Large Sizes

Halcyon Planks with *ClimaPlus* Performance/
Donn Centricitee DXT Suspension System

LEED Credits

Recycled Content: 40% – 41%
ClimaPlus No-Sag Warranty

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
	●	●			●	●

Features and Benefits

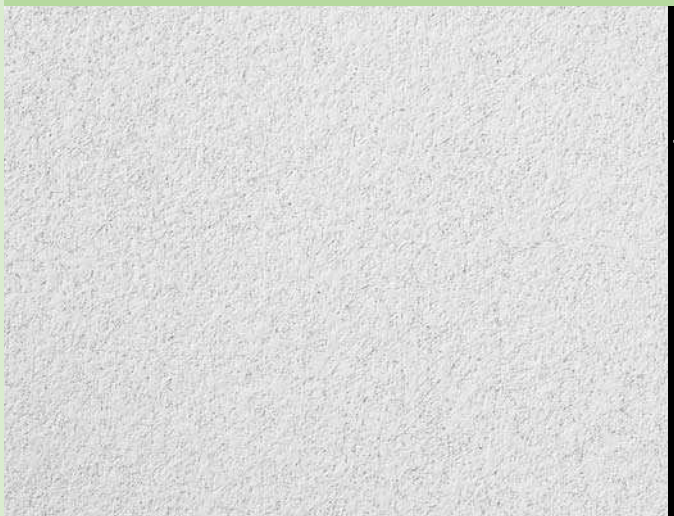
- Range of planks and panels for large-module ceilings.
- Fine, monolithic texture.
- Light reflectance of .88 is part of an "indirect lighting" solution.
- Exceptional noise reduction.
- *ClimaPlus* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a Donn® brand suspension system.
- Lightweight fiberglass basemat makes installation fast and easy.

Applications

- Open-plan offices
- Reception and lobby areas
- Corridors
- Convention halls and concourses
- Spaces with indirect or natural lighting

Substrate

- Fiberglass



Fine-textured panel

Call 888 874.2450 for samples

White

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

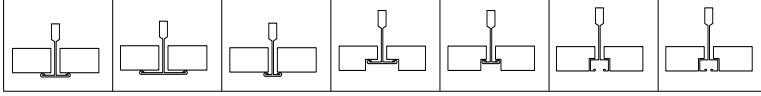
	Edge	Panel Size[2,3]	Class	Item No.	NRC	CAC Min.	LR[4]	Color	Grid Options	Anti-Mold & Mildew	Recycled Content[5]	Panel Cost
Halcyon *ClimaPlus* Planks	SQ	**2′x6′x3/4″**	Class A	**97262**	.90	20	.88	White	A, B	○	40%	**$$$**
		2′x8′x3/4″	Class A	**97263**	.90	20	.88	White	A, B	○	40%	**$$$**
	SL	**2′x6′x1″**	Class A	**99268**	.95	20	.88	White	D	○	41%	**$$$**
		2′x8′x1″	Class A	**99269**	.95	20	.88	White	D	○	41%	**$$$**
	FL	**2′x6′x1″**	Class A	**98348**	.95	20	.88	White	E, F, G	○	41%	**$$$**
		2′x8′x1″	Class A	**98197**	.95	20	.88	White	E, F, G	○	41%	**$$$**
Halcyon *ClimaPlus* Large Sizes	SQ	**4′x4′x1″**	Class A	**98441**	.95	20	.88	White	A, B	○	41%	**$$$**
		4′x8′x1″	Class A	**98481**	.95	20	.88	White	A, B	○	41%	**$$$**
	SL	**4′x4′x1″**	Class A	**98443**	.95	20	.88	White	D	○	41%	**$$$**
	FL	**4′x4′x1″**	Class A	**98445**	.95	20	.88	White	E, F, G	○	41%	**$$$**

Legend

○ ***ClimaPlus* Inherent Performance[6]**
Fiberglass substrate is inherently resistant to the growth of mold, mildew and bacteria.

Grid Profile Options

A	B	C	D	E	F	G
DX®/DXL™	DXW™	Centricitee™ DXT	DX/DXL	Centricitee DXT	Fineline® DXF	Fineline® 1/8 DXFF



Physical Data/ Footnotes

Product literature
Data sheet: SC2483

ASTM E1264 classification
Type XII, Form 2, Pattern G

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
0.38 lb./sq. ft. (3/4″ panels)
0.47 lb./sq. ft. (1″ panels)

Thermal resistance
R-3.3 (3/4″ panels)
R-4.4 (1″ panels)

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. Dependent on location; see Sustainability selector.
2. Custom-size panels available. Please contact your USG sales representative for details.
3. Stabilizer bars recommended for panels 5′ and longer. See USG parts list IC532 for details.
4. LR values are shown as averages.
5. For details, see Sustainability selector.
6. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Logix™ Integrated Ceiling Systems

Logix Linear System with 30″ x 60″ Halcyon *ClimaPlus* Panels and Centricitee DXT suspension

LEED Credits

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
	●	●			●	●

Features and Benefits

– Pre-engineered systems that concentrate utilities on narrow bands running the length of a ceiling.
– Logix Linear positions bands between main tees. Logix Basic channels intersect main tees.
– Fiberglass field panels in a wide range of standard and large sizes; fiberglass or metal channel panels.
– Available with DX/DXL, Centricitee DXT and Fineline DXF suspension systems.

Applications

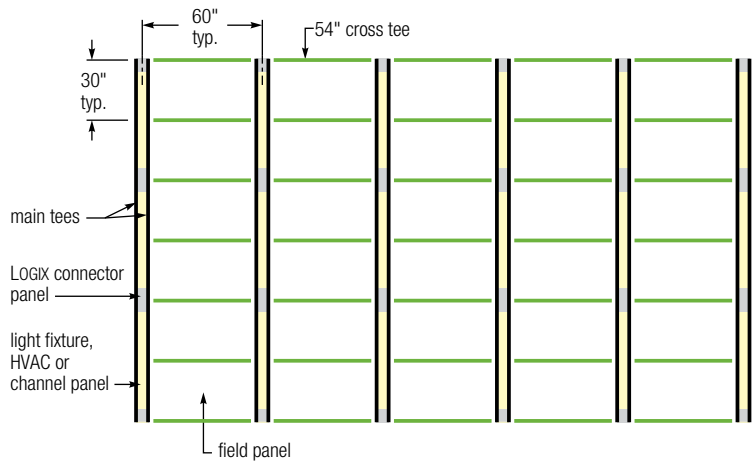
– Offices
– Entertainment
– Gaming
– Hospitality
– Transportation terminals

Halcyon *ClimaPlus* Field Panel

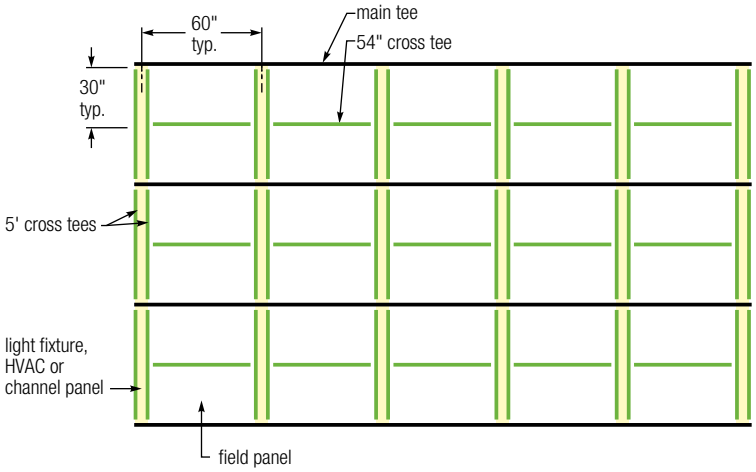
Call 888 874.2450 for samples

White

Logix Linear—Channels Uninterrupted by Main Tees



Logix Basic—Channels Intersect Main Tees



Physical Data/ Footnotes

Product literature
System selector: IC516
Parts list: IC532

Footnotes
1. Dependent on location; see Sustainability selector or contact your USG representative.

Mars™ *ClimaPlus*™

10

Year Availability
86185, 86785, 86985, 88185

MARS Panels with *CLIMAPLUS* Superior Performance/
DONN DX/DXL Suspension System

LEED Credits
Recycled Content: 76%
CLIMAPLUS Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
- Fine, monolithic texture.
- High light reflectance (LR .89).
- Excellent noise reduction (NRC .70).
- Durable, scratch-resistant, cleanable surface.
- Low maintenance panels look like new for years to come.
- *CLIMAPLUS* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/ 95% relative humidity without visible sag when used with a DONN® brand suspension system.

Applications
- Open-plan offices
- Corridors
- Department stores
- Offices with indirect lighting
- Reception areas and lobbies

Substrate
- X-Technology mineral fiber

Fine-textured panel

Call 888 874.2450 for samples

White

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

Edge	Panel Size	Class	Item No.	NRC	CAC Min.[3]	LR[4]	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content[5]	Panel Cost
Mars *ClimaPlus* Panels												
SQ	**2′x2′x3/4″**	Class A	**86185**	.70	35	.89	White	A, B, C	Low	●	76%	**$$**
	2′x4′x3/4″	Class A	**88185**	.70	35	.89	White	A, B	Low	●	76%	**$$**
SLT	**2′x2′x3/4″**	Class A	**86785**	.70	35	.89	White	D	Low	●	76%	**$$**
	2′x4′x3/4″	Class A	**88785**	.70	35	.89	White	D	Low	●	76%	**$$**
FLB	**2′x2′x3/4″**	Class A	**86985**	.70	35	.89	White	E, F, G	Low	●	76%	**$$**
	2′x4′x3/4″	Class A	**88985**	.70	35	.89	White	E, F, G	Low	●	76%	**$$**
	30″x30″x3/4″	Class A	**86830**	.70	35	.89	White	E, F, G	Low	●	76%	**$$**

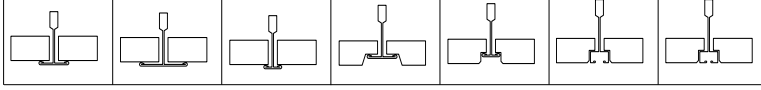
Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Superior Performance[6]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

Grid Profile Options

A	B	C	D	E	F	G
DX®/DXL™	DXW™	Centricitee™ DXT	DX/DXL	Centricitee DXT	Fineline® DXF	Fineline® 1/8 DXFF



Physical Data/ Footnotes

Product literature
Data sheet: SC1966

ASTM E1264 classification
Type IV, Form 1 and 2, Pattern E, G

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
.96-1.05 lb./sq. ft.

Thermal resistance
R-2.0

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Scrubbability
Using the Gardner Scrubbability Test, 150 scrub cycles without surface break (ASTM D2486).

Patented technology
This product's unique combination of sag resistance and sound performance results from a technology covered by U.S. Patent No. 5,250,153.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
4. LR values are shown as averages.
5. For details, see Sustainability selector.
6. Panel face and back surfaces treated with a patented, broad-spectrum anti-microbial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/ stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Mars™ *ClimaPlus*™ High-NRC

MARS High-NRC Panels with *CLIMAPLUS* Superior Performance/ DONN DX/DXL Suspension System

LEED Credits

Recycled Content: 77%
CLIMAPLUS Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits

– Excellent noise reduction (NRC .80).
– Fine, monolithic texture.
– High light reflectance (LR .89).
– Durable, scratch-resistant, cleanable surface.
– Low maintenance panels look like new for years to come.
– *CLIMAPLUS* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/ 95% relative humidity without visible sag when used with a DONN® brand suspension system.

Applications

– Open-plan offices
– Corridors
– Department stores
– Offices with indirect lighting
– Reception areas and lobbies

Substrate

– X-Technology mineral fiber

Fine-textured panel

Call 888 874.2450 for samples

White

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.[3]	LR[4]	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content[5]	Panel Cost
Mars *ClimaPlus* High-NRC Panels	SQ	**2′x2′x7/8″**	Class A	**86100**	.80	35	.89	White	A, B, C	Low	●	77%	**$$**
		2′x4′x7/8″	Class A	**86300**	.80	35	.89	White	A, B	Low	●	77%	**$$**
	SLT	**2′x2′x7/8″**	Class A	**87200**	.80	35	.89	White	D	Low	●	77%	**$$**
		2′x4′x7/8″	Class A	**89600**	.80	35	.89	White	D	Low	●	77%	**$$**
		30″x30″x7/8″	Class A	**86500**	.80	35	.89	White	D	Low	●	77%	**$$**
	FLB	**2′x2′x7/8″**	Class A	**87100**	.80	35	.89	White	E, F, G	Low	●	77%	**$$**
		2′x4′x7/8″	Class A	**89500**	.80	35	.89	White	E, F, G	Low	●	77%	**$$**
		30″x30″x7/8″	Class A	**86400**	.80	35	.89	White	E, F, G	Low	●	77%	**$$**

Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Superior Performance[6]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

Grid Profile Options

A	B	C	D	E	F	G
DX®/DXL™	DXW™	Centricitee™ DXT	DX/DXL	Centricitee DXT	Fineline® DXF	Fineline® 1/8 DXFF

Physical Data/ Footnotes

Product literature
Data sheet: SC2487

ASTM E1264 classification
Type IV, Form 1 and 2, Pattern E, G

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
.96-1.05 lb./sq. ft.

Thermal resistance
R-2.0

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Scrubbability
Using the Gardner Scrubbability Test, 150 scrub cycles without surface break (ASTM D2486).

Edge damage resistance
Weight loss not to exceed 25-35% using the Friability Tests per ASTM C367. Panel edge should withstand compression of a 1/4″ blunt pin for at least 100 lbs. per square inch. Independently verified performance test results available upon request.

Patented technology
This product's unique combination of sag resistance and sound performance results from a technology covered by U.S. Patent No. 5,250,153.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
4. LR values are shown as averages.
5. For details, see Sustainability selector.
6. Panel face and back surfaces treated with a patented, broad-spectrum anti-microbial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/ stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Millennia™ *ClimaPlus*™

10
Year Availability
76705, 76901, 76907, 78705

MILLENNIA Panels with *CLIMAPLUS* Superior Performance/
DONN DX/DXL Suspension System

LEED Credits
Recycled Content: 75%
CLIMAPLUS Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
- Market's fastest-installing fine-textured ceiling is an economical alternative to face-laminated panels.
- NRC meets general office acoustical needs for sound absorption.
- *CLIMAPLUS* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/ 95% relative humidity without visible sag when used with a DONN® brand suspension system.

Applications
- Retail stores
- Hospitality
- Office and conference areas
- Transportation terminals

Substrate
- X-Technology mineral fiber

Fine-textured panel

Call 888 874.2450 for samples

White

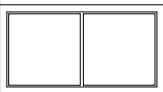
30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.[3]	LR[4]	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content[5]	Panel Cost
Millennia *ClimaPlus* Panels	SQ	**2′x2′x3/4″**	Class A	**76505**	.70	35	.85	White	A, B, C	Low	●	75%	**$$**
		2′x4′x3/4″	Class A	**78505**	.70	35	.85	White	A, B	Low	●	75%	**$$**
	SLT	**2′x2′x3/4″**	Class A	**76705**	.70	35	.85	White	D	Low	●	75%	**$$**
		2′x4′x3/4″	Class A	**78705**	.70	35	.85	White	D	Low	●	75%	**$$**
	FLB	**2′x2′x3/4″**	Class A	**76907**	.70	35	.85	White	E, F, G	Low	●	75%	**$$**
		2′x4′x3/4″	Class A	**76901**	.70	35	.85	White	E, F, G	Low	●	75%	**$$**
Millennia *ClimaPlus* Tile[6,7]	BESK	**12″x12″x3/4″**	Class A	**70003**	.60	40	.85	White	H	Low	●	75%	**$$$$**
Millennia *ClimaPlus* Illusion Two/24 Panels The look of 2′x2′ panels	SLT[8]	**2′x4′x3/4″**	Class A	**78780**	.70	35	.85	White	D	Low	●	75%	**$$**
	ILT[9]	**2′x4′x3/4″**	Class A	**78080**	.70	35	.85	White	I	Low	●	75%	**$$**

Illusion Two/24

Patterns



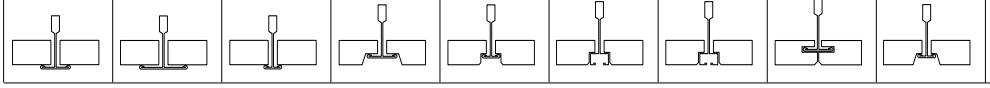
Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Superior Performance[10]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

A	B	C	D	E	F	G	H	I
DX®/DXL™	DXW™	Centricitee™ DXT	DX/DXL	Centricitee DXT	Fineline® DXF	Fineline® 1/8 DXFF	DX®/DXL™ Concealed	Centricitee DXT

Grid Profile Options



Physical Data/ Footnotes

Product literature
Data sheet: SC1824

ASTM E1264 classification
Type III, Form 1, Pattern E, G

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
1.02-1.05 lb./sq. ft. (panels and tile)

Thermal resistance
R-2.0

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Patented technology
This product's unique combination of sag resistance and sound performance results from a technology covered by U.S. Patent No. 5,250,153.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
4. LR values are shown as averages.
5. For details, see Sustainability selector.
6. Contact USG for adhesive recommendations for 12″x12″ glue-up applications.
7. Not UL Classified for acoustics.
8. Panels have a 15/16″ routing.
9. Panels have a 9/16″ routing.
10. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Millennia™ *ClimaPlus*™ High-NRC

Millennia High-NRC Panels with *ClimaPlus* Superior Performance/ Donn Fineline DXF Suspension System

LEED Credits

Recycled Content: 75%
ClimaPlus Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits

- High NRC value without mechanical perforations.
- NRC of .75 meets the demanding sound control needs of open-plan offices.
- Market's fastest-installing fine-textured ceiling is an economical alternative to face-laminated panels.
- *ClimaPlus* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a Donn® brand suspension system.

Applications

- Libraries
- Open-plan offices
- Reception and lobby areas
- Legal
- Financial institutions

Substrate

- X-Technology mineral fiber

Fine-textured panel

Call 888 874.2450 for samples

White

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.[3]	LR[4]	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content[5]	Panel Cost
Millennia *ClimaPlus* High-NRC Panels	SLT	**2′x2′x3/4″**	Class A	**76201**	.75	30	.87	White	A	Low	●	75%	**$$**
	FLB	**2′x2′x3/4″**	Class A	**76302**	.75	30	.87	White	B, C, D	Low	●	75%	**$$**

Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Superior Performance[6]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

Grid Profile Options

A	B	C	D
DX®/DXL™	Centricitee™ DXT	Fineline® DXF	Fineline® 1/8 DXFF

Physical Data/ Footnotes

Product literature
Data sheet: SC1851

ASTM E1264 classification
Type III, Form 1, Pattern E, G

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
1.06-1.09 lb./sq. ft.

Thermal resistance
R-2.0

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Patented technology
This product's unique combination of sag resistance and sound performance results from a technology covered by U.S. Patent No. 5,250,153.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
4. LR values are shown as averages.
5. For details, see Sustainability selector.
6. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Olympia Micro™ *ClimaPlus*™

10
Year Availability
4211, 4221, 4231, 4411, 4421, 4742, 4744

Olympia Micro Panels with *ClimaPlus* Superior Performance/
Donn Fineline DXF Suspension System

LEED Credits
Recycled Content: 52%
ClimaPlus Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
- Nondirectional pattern reduces installation time and waste.
- Economical, fine-textured panel.
- Excellent light reflectance enhances indirect lighting of a space.
- *ClimaPlus* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a Donn® brand suspension system.

Applications
- Classrooms
- Hotels
- Reception and lobby areas
- Restaurants
- Retail stores

Substrate
- Water-felted mineral fiber

Fine-textured panel

Call 888 874.2450 for samples

White

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[3]	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content[4]	Panel Cost
Olympia Micro *ClimaPlus* Panels	SQ	**2′x2′x5/8″**	Class A	**4211**	.50	30	.87	White	A, B, C	Low	●	52%	**$$**
		2′x4′x5/8″	Class A	**4411**	.50	30	.87	White	A, B	Low	●	52%	**$$**
	SLT	**2′x2′x5/8″**	Class A	**4221**	.50	35	.87	White	D	Low	●	52%	**$$**
		2′x4′x5/8″	Class A	**4421**	.50	35	.87	White	D	Low	●	52%	**$$**
	FLB	**2′x2′x5/8″**	Class A	**4231**	.50	35	.87	White	E, F, G	Low	●	52%	**$$**
		2′x4′x5/8″	Class A	**4431**	.50	35	.87	White	E, F, G	Low	●	52%	**$$**
Olympia Micro *ClimaPlus* Illusion Two/24 Panels The look of 2′x 2′ panels	SLT[5]	**2′x4′x3/4″**	Class A	**4742**	.50	35	.87	White	D	Low	●	52%	**$$**
	ILT[6]	**2′x4′x3/4″**	Class A	**4744**	.50	35	.87	White	E, H	Low	●	52%	**$$**

Illusion Two/24

Patterns

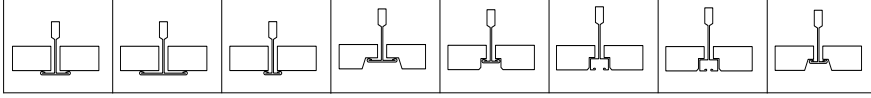
Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

ClimaPlus Superior Performance[7]
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

Grid Profile Options

A	B	C	D	E	F	G	H
DX®/DXL™	DXW™	Centricitee™ DXT	DX/DXL	Centricitee DXT	Fineline® DXF	Fineline® 1/8 DXFF	Centricitee DXT



Physical Data/ Footnotes

Product literature
Data sheet: SC2180

ASTM E1264 classification
Type III, Form 2, Pattern CE

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
.78-1.03 lb./sq. ft.

Thermal resistance
R-1.4 (5/8″ panels)
R-1.7 (3/4″ panels)

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. LR values are shown as averages.
4. For details, see Sustainability selector.
5. Panels have 15/16″ routing.
6. Panels have 9/16″ routing.
7. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Pebbled™ *ClimaPlus*™

PEBBLED Panels with *CLIMAPLUS* Superior Performance/
DONN DX/DXL Suspension System

LEED Credits

Recycled Content: 34%
CLIMAPLUS Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits

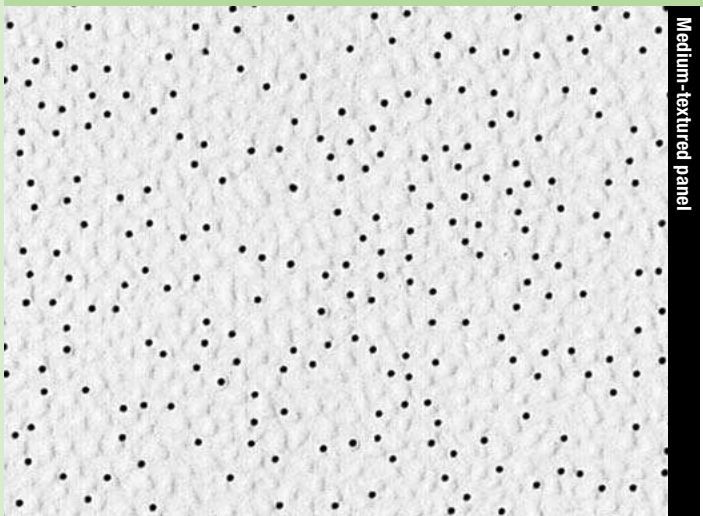
– Economical, medium-textured ceiling panel has upscale appearance.
– *CLIMAPLUS* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a DONN® brand suspension system.

Applications

– Schools
– Corridors
– General offices
– Retail stores

Substrate

– Water-felted mineral fiber



Medium-textured panel

Call 888 874.2450 for samples

White

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[3]	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content[4]	Panel Cost
Pebbled *ClimaPlus* Panels	SQ	**2′x2′x5/8″**	Class A	**4801**	.55	35	.86	White	A, B, C	Low	●	34%	$
		2′x4′x5/8″	Class A	**4800**	.55	35	.86	White	A, B	Low	●	34%	$
	SLT	**2′x2′x5/8″**	Class A	**4805**	.55	35	.86	White	D	Low	●	34%	$
	FLB	**2′x2′x5/8″**	Class A	**4867**	.55	35	.86	White	E, F, G	Low	●	34%	$

Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Superior Performance[5]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

	A	B	C	D	E	F	G
	DX®/DXL™	DXW™	Centricitee™ DXT	DX/DXL	Centricitee DXT	Fineline® DXF	Fineline® 1/8 DXFF
Grid Profile Options							

Physical Data/ Footnotes

Product literature
Data sheet: SC1836

ASTM E1264 classification
Type III, Form 2, Pattern CE

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
.70-.79 lb./sq. ft.

Thermal resistance
R-1.4

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. LR values are shown as averages.
4. For details, see Sustainability selector.
5. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Premier Hi-Lite™ *ClimaPlus*™

Premier Hi-Lite Twill Panels with *ClimaPlus* Performance/
Donn DX/DXL Suspension System

LEED Credits
Recycled Content: 31%
ClimaPlus No-Sag Warranty

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
	●	●			●	●

Features and Benefits
- Washable vinyl face for easy maintenance.
- Excellent noise reduction with NRC of .60 or .75 for greater sound control in open-plan spaces.
- *ClimaPlus*™ 30-year system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a Donn® brand suspension system.
- Lightweight fiberglass basemat makes installation fast and easy.

Applications
- Discount stores
- Grocery stores
- Mass merchandisers
- Retail stores

Substrate
- Fiberglass

Call 888 874.2450 for color samples
See individual items for color availability.

White Flat Black 205

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[2]	Color[3]	Grid Options	Anti-Mold & Mildew	Recycled Content[4]	Panel Cost
Premier Hi-Lite *ClimaPlus* Twill Panels	SQ	**2′x2′x5/8″** Perforated	Class A	**7050G**	.75	20	.76	White	A, B, C, D	○	31%	$
		2′x2′x5/8″ Unperforated	Class A	**7052G**	.60	20	.76	White	A, B, C, D	○	31%	$
		2′x4′x5/8″ Perforated	Class A	**7051G**	.75	20	.76	White	A, B, C, D	○	31%	$
		2′x4′x5/8″ Unperforated	Class A	**7053G**	.60	20	.76	White	A, B, C, D	○	31%	$
Premier Hi-Lite *ClimaPlus* Kapok Panels	SQ	**2′x2′x5/8″** Perforated	Class A	**7054G**	.75	20	.76	White and Black	A, B, C, D	○	31%	$
		2′x2′x5/8″ Unperforated	Class A	**7056G**	.60	20	.76	White and Black	A, B, C, D	○	31%	$
		2′x4′x5/8″ Perforated	Class A	**7055G**	.75	20	.76	White and Black	A, B, C, D	○	31%	$
		2′x4′x5/8″ Unperforated	Class A	**7057G**	.60	20	.76	White and Black	A, B, C, D	○	31%	$

Legend

○ ***ClimaPlus* Inherent Performance[5]**
Fiberglass substrate is inherently resistant to the growth of mold, mildew and bacteria.

	A	B	C	D
Grid Profile Options	DX®/DXL™	DXW™	ZXLA™	AX™

Physical Data/ Footnotes

Product literature
Data sheet: SC1838

ASTM E1264 classification
Type XII, Form 1, Pattern CE (Perforated), Pattern E (Unperforated)

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
.19-.33 lb./sq. ft.

Thermal resistance
R-2.7

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a damp sponge.

Footnotes
1. Dependent on location; see Sustainability selector.
2. LR values are shown as averages.
3. See Colors selector for more information.
4. For details, see Sustainability selector.
5. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Premier Nubby™ *ClimaPlus*™

PREMIER NUBBY Panels with *CLIMAPLUS* Performance/
DONN CENTRICITEE DXT Suspension System

LEED Credits
Recycled Content: 29% – 32%
CLIMAPLUS No-Sag Warranty

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
	●	●			●	●

Features and Benefits
- High-quality nubby cloth facing offers consistent, fine-textured appearance.
- Excellent noise reduction with NRC of .85 or .90 meets the demanding sound control needs of open-plan spaces.
- *CLIMAPLUS*™ 30-year system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a DONN® brand suspension system.
- Lightweight fiberglass basemat makes installation fast and easy.

Applications
- Conference rooms and executive areas
- Gymnasiums and auditoriums
- Open office plans
- Retail stores

Substrate
- Fiberglass

Fine-textured panel

Call 888 874.2450 for samples

White

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size	Class	Item No.	NRC	CAC Min.	LR[2]	Color	Grid Options	Anti-Mold & Mildew	Recycled Content[3]	Panel Cost
Premier Nubby *ClimaPlus* Panels	SQ	**2′x2′x3/4″**	Class A	**7000G**	.85	—	.87	White	A, B	○	29%	**$$$**
		2′x2′x1″	Class A	**7002G**	.90	—	.87	White	A, B	○	32%	**$$$**
		2′x2′x1″ Foil-Back	Class A	**7012G**	.90	25	.87	White	A, B	○	32%	**$$$**
		2′x4′x1″	Class A	**7003G**	.90	—	.87	White	A, B	○	32%	**$$$**
		2′x4′x1″ Foil-Back	Class A	**7013G**	.90	25	.87	White	A, B	○	32%	**$$$**

Legend

○ ***ClimaPlus* Inherent Performance[4]**
Fiberglass substrate is inherently resistant to the growth of mold, mildew and bacteria.

	A	**B**
Grid Profile Options	DX®/DXL™	DXW™

Physical Data/ Footnotes

Product literature
Data sheet: SC1839

ASTM E1264 classification
Type XII, Form 2, Pattern E

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
.38-.50 lb./sq. ft.

Minimum AC
170 for item #7003G.
190 for item #7013G.

Thermal resistance
R-3.3 (3/4″ panels)
R-4.4 (1″ panels)

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. Dependent on location; see Sustainability selector.
2. LR values are shown as averages.
3. For details, see Sustainability selector.
4. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Radar™

10

Year Availability
2110, 2120, 2310, 2742

RADAR Panels/
DONN DX/DXL Suspension System

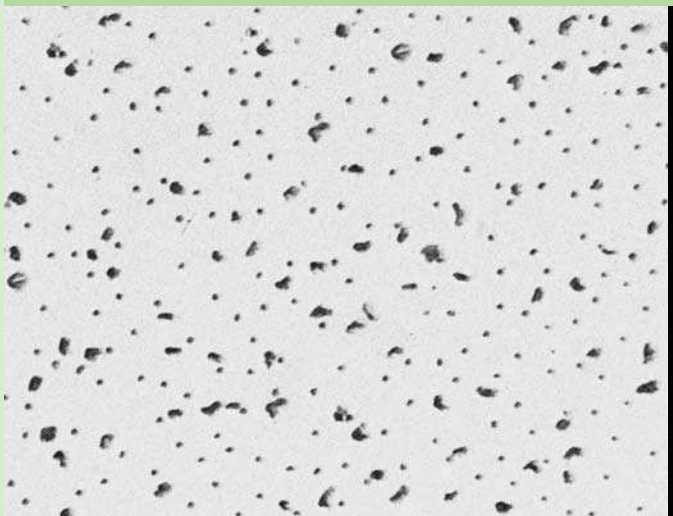
LEED Credits
Recycled Content: 25% – 50%

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
– Non-directional pattern with a fresh, clean appearance offers fast, efficient installation.
– Economical, all-purpose ceiling pattern offered in many sizes.
– Optional FIRECODE™ formulation designed to meet life safety codes.

Applications
– Schools
– Corridors
– Offices
– Retail stores

Substrate
– Water-felted mineral fiber



Medium-textured panel

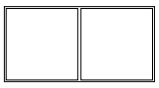
Call 888 874.2450 for samples

White

	Edge	Panel Size Imperial / Metric (mm)	Class[3]	Item No. Imperial / Metric	NRC	CAC Min.	LR[4]	Color	Grid Options	VOC Emissions	Recycled Content[5]	Panel Cost
					UL Classified							
Radar Panels	SQ	**2′x2′x5/8″** 600 x 600 x 15	Class A	**2110** ME2110	.55	33	.85	White	A, B, C	Low	25%	$
		2′x2′x5/8″		**2115**	.55	35	.85	White	A	Low	48 – 50%	$
		2′x4′x5/8″ 600x1200x15	Class A	**2310** ME2310	.55	35	.85	White	A, B	Low	25%	$
		2′x4′x5/8″		**2315**	.55	35	.85	White	A	Low	48 – 50%	$
		2′x5′x5/8″	Class A	**2619**	.55	35	.85	White	A, B	Low	25%	$
		20″x60″x5/8″	Class A	**2617**	.55	35	.85	White	A, B	Low	25%	$
		2′x4′x3/4″	Class A	**2311**	.60	35	.85	White	A, B	Low	25%	$
		30″x60″x3/4″	Class A	**2618**	.60	35	.85	White	A, B	Low	25%	$
	SLT	**2′x2′x5/8″** 600x600x15	Class A	**2120** ME2120	.55	33	.85	White	D	Low	25%	$
		2′x2′x5/8″		**2125**	.55	35	.85	White	D	Low	48 – 50%	$
		2′x4′x5/8″	Class A	**2320**	.55	35	.85	White	D	Low	25%	$
		2′x2′x3/4″	Class A	**2121**	.60	35	.85	White	D	Low	25%	$
	FLB	**2′x2′x5/8″**	Class A	**2130**	.55	33	.85	White	E, F, G	Low	25%	$
Radar Tile[6,7]	BESK	**12″x12″x5/8″**	Class A	**2990**	.50	40	.85	White	H	Low	25%	$$$
Radar Illusion Two/24 Panel The look of 2′x2′panels	SLT	**2′x4′x3/4″**	Class A	**2742**	.55	35	.89	White	D	Low	25%	$$

Pattern

Illusion Two/24

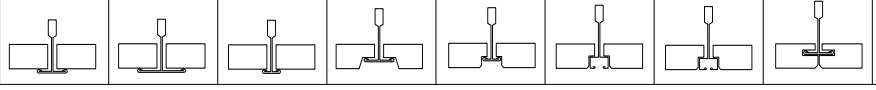


Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

Grid Profile Options

A	B	C	D	E	F	G	H
DX®/DXL™	DXW™	Centricitee™ DXT	DX/DXL	Centricitee DXT[8]	Fineline® DXF	Fineline® 1/8 DXFF	DX®/DXL™ Concealed



Physical Data/ Footnotes

Product literature
Data sheet: SC2288

ASTM E1264 classification
Type III, Form 2, Pattern C, D, E

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
.61-1.15 lb./sq. ft.

Thermal resistance
R-1.4 (Class A, 5/8″ panels and tile)
R-1.7 (Class A, 3/4″ panels)
R-1.4 (Class A,15 mm panels)
R-1.6 (Firecode, 5/8″ panels)

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Fire-rated items: see UL design details.
4. LR values are shown as averages.
5. For details, see the Sustainability selector.
6. Contact USG for adhesive recommendation for 12″x12″ glue-up applications.
7. Not UL Classified for acoustics.
8. Maximum 2′ x 2′ for square panels.

Radar™ *ClimaPlus*™

10

Year Availability
2210, 2215, 2220, 2225, 2230, 2410, 2415

RADAR Panels with *CLIMAPLUS* Superior Performance/
DONN DX/DXL Suspension System

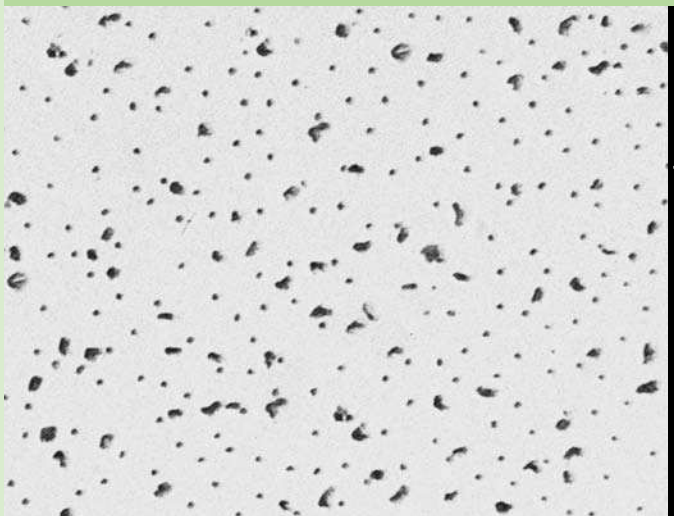
LEED Credits
Recycled Content: 28% – 50%
CLIMAPLUS Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
– Non-directional pattern.
– *CLIMAPLUS* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a DONN® brand suspension system.
– Optional FIRECODE™ formulation.
– High-durability panels are 55% more durable than standard panels.

Applications
– Schools
– Corridors
– Lobby areas
– Offices
– Retail stores

Substrate
– Water-felted mineral fiber



Medium-textured panel

Call 888 874.2450 for color samples
See individual items for color availability.

White

Standard Colors

Parchment 103 Manila 246 Beige 142 Straw 143 Sandstone 090 Taupe 107

Charcoal 534 Flat Black 205

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size Imperial Metric (mm)[3]	Class[4]	Item No. Imperial Metric	NRC	CAC Min.	LR[5]	Color[6]	Grid Options	VOC Emissions	Anti-Mold & Mildew	Abuse-Resistant	Recycled Content[7]	Panel Cost
Radar *ClimaPlus* Panels	SQ	**2′x2′x5/8″**	Class A	**2210**	.55	33	.84	White Standard	A, B	Low	●		28 – 44%	$
		2′x2′x5/8″		**2215**	.55	35	.84	White	A	Low	●		48– 50%	$
		2′x4′x5/8″ 600x1200x15	Class A	**2410** ME2410	.55	35	.84	White Standard	A	Low	●		28 – 44%	$
		2′x4′x5/8″		**2415**	.55	35	.84	White Flat Black Charcoal	A	Low	●		48– 50%	$
		2′x4′x5/8″	Class A	**2410P**[8]	.55	35	.85	White	A, B	Low	●		25%	$
	SLT	**2′x2′x5/8″** 600x600x15	Class A	**2220** ME2220	.55	33	.84	White Standard Flat Black/ Charcoal not available	C	Low	●		28 – 44%	$
		2′x2′x5/8″		**2225**	.55	35	.84	White	C	Low	●		48– 50%	$
		2′x4′x5/8″	Class A	**2420**	.55	35	.84	White	C	Low	●		28 – 44%	$
		2′x4′x5/8″		**2425**	.55	35	.84	White	C	Low	●		48– 50%	$
	FLB	**2′x2′x5/8″**	Class A	**2230**	.55	33	.84	White	D, F, G	Low	●		28 – 44%	$
		2′x2′x5/8″		**2235**	.55	35	.84	White	D, F, G	Low	●		48 – 50%	$
Radar *ClimaPlus* High-Durability Panels	SQ	**2′x2′x5/8″**	Class A	**2207**	.55	35	.84	White	A, B	Low	●	●	28 – 44%	$
		2′x4′x5/8″	Class A	**2407**	.55	35	.84	White	A, B	Low	●	●	28 – 44%	$
	SLT	**2′x2′x5/8″**	Class A	**2227**	.55	35	.84	White	C	Low	●	●	28 – 44%	$

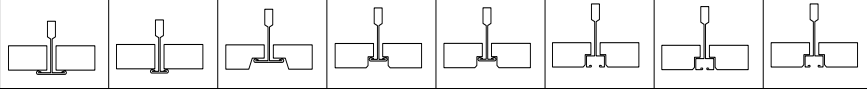
Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

● *ClimaPlus* Superior Performance[11]
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

Grid Profile Options

A	B	C	D	E	F	G	H
DX®/DXL™	Centricitee™ DXT	DX/DXL	Centricitee DXT	Centricitee DXLT	Fineline® DXF	Fineline® 1/8 DXFF	Fineline® DXLF



Physical Data/ Footnotes

Product literature
Data sheet: SC2127

ASTM E1264 classification
Type III, Form 2, Pattern C, D, E

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
.61-1.15 lb./sq. ft.

Thermal resistance
R-1.4 (5/8″ Class A panels and tile)
R-1.6 (Firecode panels)

Maximum backloading
See warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

High-Durability panels
ASTM D1037 – falling-ball impact test.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Metric available in White only.
4. Fire-rated items: see UL design details.
5. LR values are shown as averages.
6. See Colors selector for more information.
7. For details, see Sustainability selector.
8. Includes plastic coating, Gardner-Scrubbability tested to 3,000 cycles (ASTM D246).
9. SF = staple flange.
10. Not UL Classified for acoustics.
11. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Radar™ *ClimaPlus*™ Illusion

10
Year Availability
2842, 2852, 2862, 2882

RADAR Illusion Four/48 Panels with *CLIMAPLUS* Superior Performance/
DONN DX/DXL Suspension System

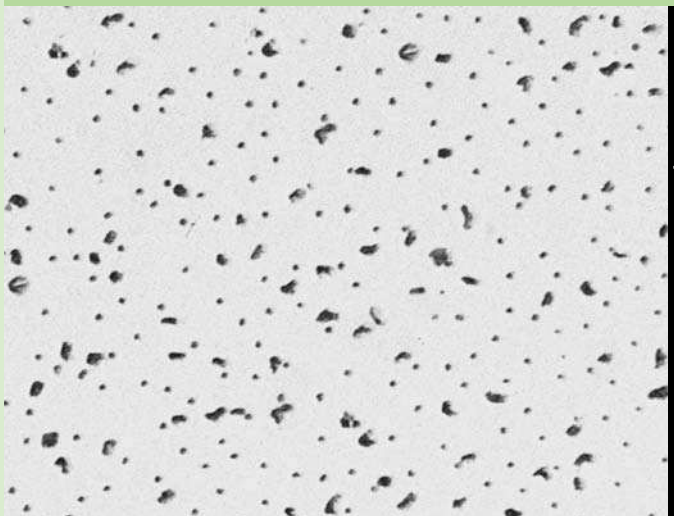
LEED Credits
Recycled Content: 28% – 50%
CLIMAPLUS Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
- Non-directional pattern offers fast, efficient installation.
- Face scores create illusion of a smaller-scaled ceiling system.
- *CLIMAPLUS* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a DONN® brand suspension system.
- Optional FIRECODE™ formulation designed to meet life safety codes.

Applications
- Schools
- Corridors
- General offices
- Retail stores

Substrate
- Water-felted mineral fiber



Medium-textured panel

Call 888 874.2450 for color samples
See individual items for color availability.

Standard Colors

White

Parchment 103 Manila 246 Beige 142 Straw 143 Sandstone 090

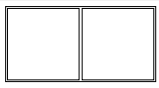
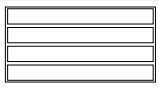
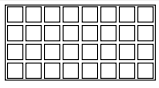
Taupe 107

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size	Class[3]	Item No.	NRC	CAC Min.	LR[4]	Color[5]	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content[6]	Panel Cost
Radar *ClimaPlus* Illusion Two/24 Panels The look of 2′x2′ panels	SLT[7]	**2′x4′x3/4″**	Class A	**2842**	.55	35	.84	White Standard Not available in Flat Black or Charcoal	A	Low	●	28 – 44%	**$$**
		2′x4′x3/4″		**2846**	.55	35	.84	White	A	Low	●	48 – 50%	**$$**
	ILT[8]	**2′x4′x3/4″**	Class A	**2844**	.55	35	.84	White	B	Low	●	28 – 44%	**$$**
Radar *ClimaPlus* Illusion Four/48 Panels The look of 48″x6″ linear strips	SLT[8]	**2′x4′x3/4″**	Class A	**2882**	.50	35	.84	White	A	Low	●	28 – 44%	**$$**
	ILT[8]	**2′x4′x3/4″**	Class A	**2884**	.50	35	.84	White	B	Low	●	28 – 44%	**$$**
Radar *ClimaPlus* Illusion Eight/12 Panels The look of 12″x12″ tile	SLT[7]	**2′x4′x3/4″**	Class A	**2852**	.55	35	.84	White	A	Low	●	28 – 44%	**$$**
	ILT[8]	**2′x4′x3/4″**	Class A	**2854**	.55	35	.84	White	B	Low	●	28 – 44%	**$$**
Radar *ClimaPlus* Illusion Thirty-Two/6 Panels The look of 6″x6″ tile	SLT[7]	**2′x4′x3/4″**	Class A	**2862**	.50	35	.84	White	A	Low	●	28 – 44%	**$$**
	ILT[8]	**2′x4′x3/4″**	Class A	**2864**	.50	35	.84	White	B	Low	●	28 – 44%	**$$**

Patterns

Illusion Two/24	Illusion Four/48	Illusion Eight/12	Illusion Thirty-Two/6
			

Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Superior Performance[9]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

Grid Profile Options

A	B
DX®/DXL™	Centricitee™ DXT

Physical Data/ Footnotes

Product literature
Data sheet: SC2126

ASTM E1264 classification
Type III, Form 2, Pattern CDEK

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
.87-1.2 lb./sq. ft.

Thermal resistance
R-1.7 (Class A)
R-1.9 (Firecode)

Maximum backloading
See warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Fire-rated items: see UL design details.
4. LR values are shown as averages.
5. See Colors selector for more information.
6. For details, see Sustainability selector.
7. Panels have a 15/16″ routing.
8. Panels have a 9/16″ routing.
9. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Radar™ *ClimaPlus*™ High-CAC, High-NRC

10
Year Availability
22111, 22121, 22127, 22311

RADAR High-NRC Panels with *CLIMAPLUS* Superior Performance/
DONN DX/DXL Suspension System

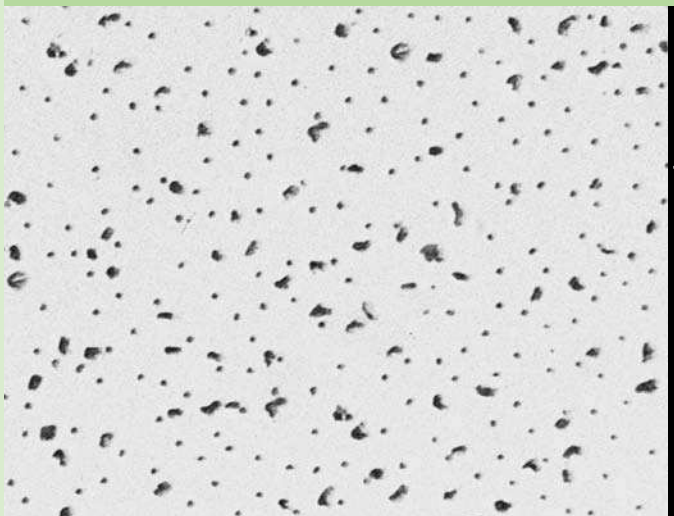
LEED Credits
Recycled Content: 56-58%
CLIMAPLUS Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
– Non-directional all-purpose ceiling pattern.
– Available with 40 CAC for increased room-to-room speech privacy and .70 NRC for greater sound control in open-plan areas.
– *CLIMAPLUS* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a DONN® brand suspension system.
– FIRECODE™ formulation designed to meet life safety codes.
– High-NRC/High-CAC – Formulation helps comply with ANSI S 12.60 classroom guidelines.

Applications
– Classrooms
– Conference rooms
– Open office plans
– Privacy rooms

Substrate
– Water-felted mineral fiber



Medium-textured panel

Call 888 874.2450 for samples

White

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size	Class[3]	Item No.	NRC	CAC Min.	LR[4]	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content[5]	Panel Cost
Radar *ClimaPlus* High-CAC Panel	SQ	**2′x4′x5/8″**		**22310**	.55	40	.84	White	A, C	Low	●	58%	$
Radar *ClimaPlus* High-NRC Panels	SQ	**2′x2′x3/4″**		**22111**	.70	35	.84	White	A, B, C	Low	●	58%	$
		2′x4′x3/4″		**22311**	.70	35	.84	White	A, C	Low	●	58%	$
	SLT	**2′x2′x3/4″**		**22121**	.70	35	.84	White	D	Low	●	58%	$
	FLB	**2′x2′x3/4″**		**22127**	.70	35	.84	White	E, F, G	Low	●	58%	$
	SQ	**2′x2′x3/4″**		**22421**	.70	35	.84	White	A,B,C	Low	●	58%	$
	SLT	**2′x2′x3/4″**		**22543**	.70	40	.84	White	D	Low	●	58%	$
Radar *ClimaPlus* High-NRC/CAC Panels	SQ	**2′x4′x3/4″**		**22441**[7]	.70	40	.84	White	A,C	Low	●	56%	$
		2′x4′x3/4″		**22541**[7]	.70	40	.84	White	A,C	Low	●	56%	$
	SLT	**2′x2′x3/4″**		**22523**[7]	.70	40	.84	White	D	Low	●	56%	$
	FLB	**2′x2′x3/4″**		**22527**[7]	.70	40	.84	White	E,F,G	Low	●	56%	$

Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

ClimaPlus Superior Performance[6]
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

	A	B	C	D	E	F	G
	DX®/DXL™	Centricitee™ DXLT	DXW™	DX/DXL	Centricitee DXLT	Fineline® DXF	Fineline® 1/8 DXFF
Grid Profile Options							

Physical Data/ Footnotes

Product literature
Data sheet: SC2290

ASTM E1264 classification
Type III, Form 2, Pattern CDE

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
1.15-1.36 lb./sq. ft.

Thermal resistance
R-1.6 (5/8″ panels)
R-1.9 (3/4″ panels)

Maximum backloading
See Warranty for details.

Maintenance
Panels can be cleaned easily with a soft brush or vacuum.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Fire-rated items: See UL design details.
4. LR values are shown as averages.
5. For details, see Sustainability selector.
6. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).
7. Helps comply with ANSI S 12.60 classroom guidelines.

Radar™ Ceramic *ClimaPlus*™

10
Year Availability
56644, 56645

RADAR Ceramic Panels with *CLIMAPLUS* Performance/
DONN ZXLA Suspension System

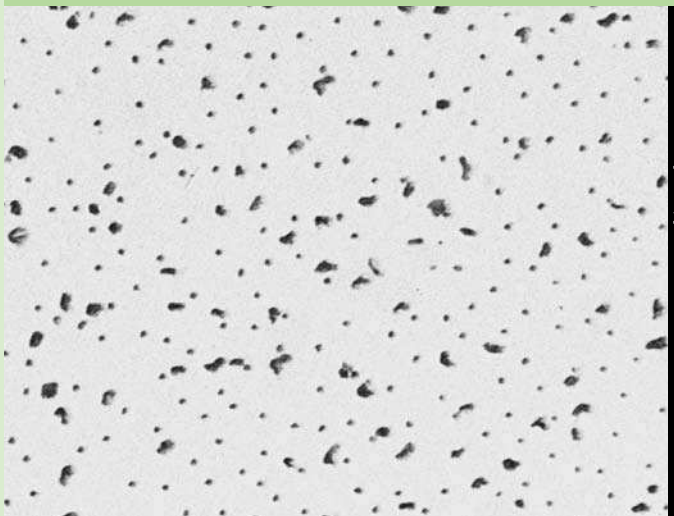
LEED Credits
Recycled Content: 45%
CLIMAPLUS No-Sag Warranty

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
	●	●	●	●	●	●

Features and Benefits
- 100% ceramic-bonded mineral fiber withstands high heat, high humidity, corrosive chemical fumes, and steam.
- Tested in live steam to withstand applications such as saunas and steam rooms.
- Meets U.S. Coast Guard standards and can be used in high-humidity marine applications.
- *CLIMAPLUS* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/100% relative humidity without visible sag when used with a DONN® brand suspension system.
- FIRECODE™ formulation.

Applications
- Exterior soffits
- Parking garages
- Pools and shower areas
- Saunas and steam rooms

Substrate
- Water-felted, ceramic-bonded mineral fiber



Medium-textured panel, perforated

Call 888 874.2450 for samples

White

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

	Edge	Panel Size	Class[2]	Item No.	NRC	CAC	LR[3] Min.	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Recycled Content[4]	Panel Cost
Radar Ceramic *ClimaPlus* Perforated Panels	SQ	**2′x2′x5/8″**		**56644**	.50	40	.82	White	A, B	Low	○	45%	**$$**
		2′x4′x5/8″		**56645**	.50	40	.82	White	A, B	Low	○	45%	**$$**

Legend

Zero Emissions (VOC Class)
Classified as zero-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Inherent Peformance[5]**
Totally inorganic product; resistant to the growth of mold, mildew and bacteria.

	A ZXLA™	**B** AX™
Grid Profile Options		

Physical Data/ Footnotes

Product literature
Data sheet: SC2293

ASTM E1264 classification
Perforated: Type XX, Pattern CEG

ASTM E84 surface burning characteristics
Class A
Flame spread: 0
Smoke developed: 0

Weight
1.6-1.7 lb./sq. ft.

Thermal resistance
R-1.3

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a damp sponge.

U.S. Coast Guard acceptance
Approved for use on merchant ships (No. 164.109/53/0).

Footnotes
1. Dependent on location; see Sustainability selector.
2. Fire-rated items: see UL design details.
3. LR values are shown as averages.
4. For details, see Sustainability selector.
5. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Renditions™ Animations

RENDITIONS Face-Routed Ceiling Panels with Paws Pattern/
DONN DX/DXL Suspension System

LEED Credits
Recycled Content: 70% – 77%

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
– Computer-generated, face-routed designs combined with the beautiful fine texture of ECLIPSE,™ FROST,™ or MILLENNIA® panels.
– Numbered ceiling panels match shop drawings for easy installation.
– Custom designs are available.
– All panels available in White. FROST panels available in Standard colors, Advantage colors and custom colors.

Applications
– Child care
– Educational
– Health care
– Theme and whimsical areas

Substrate
– X-Technology mineral fiber
– Cast mineral fiber (FROST)

Call 888.874.2450 for color samples

White

Standard Colors
Parchment 103, Manila 246, Beige 142, Straw 143, Sandstone 090, Taupe 107, Charcoal 534, Flat Black 205

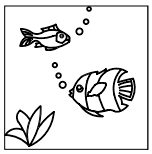
Advantage Colors
Silvertone 052, Breeze 2659, Blue Grey 564, Azure 2660, Slate 568, Spruce 567, Tuscany 2663, Sorbet 2658, Squash 2662, Safari 2662, Redwood 566, Sienna 565, Halo 206, Mist 053, Nectar 546, Quartz 082

Product Information

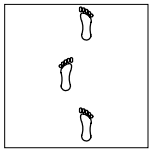
Materials	Finishes	Typical Sizes	Available Panels and Edges[3]						Sound Rating[4]	
				SQ	SLT	SLB	FL	FLB	NRC	CAC[5]
Mineral-fiber ceiling panels	All panels available in White. FROST panels available in Standard colors, Advantage colors and custom colors.	2′ x 2′	ECLIPSE	•	•		•		.70	35
			FROST			•	•	•		
			MILLENNIA	•	•			•		

Patterns[6]

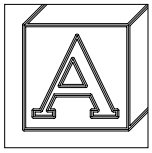
Aquarium
5-Panel Series



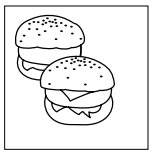
Barefootin'
12-Panel Series



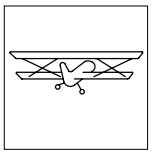
Blocks
13-Panel Series



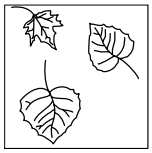
Fast Food
5-Panel Series



Flying Things
13-Panel Series

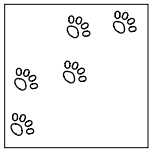


Leaves
13-Panel Series

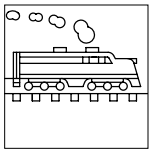


Night Sky
8-Panel Series

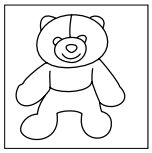
Paws
29-Panel Series



Railway
26-Panel Series



Stuffed Animals
4-Panel Series



Physical Data/ Footnotes

Product literature
Data sheet: IC327
Product guide: IC500

Recycled Content
See the Sustainability selector.

Footnote
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. RENDITIONS panels only available as Class A.
4. Non-face-routed panels.
5. CAC values will depend on edge and suspension system.
6. For all panels in each series, see IC500 or visit USGDesignStudio.com.

Note
Panels with RENDITIONS face routing do not carry USG's *CLIMAPLUS*™ non-sag warranty. Refer to standard commercial ceilings warranty.

Renditions™ Boundaries

RENDITIONS Face-Routed Ceiling Panels with Boundaries Pattern/
FROST Panels/DONN CENTRICITEE Suspension System

LEED Credits
Recycled Content: 70% – 77%

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
- Computer-generated, face-routed designs combined with the beautiful fine texture of ECLIPSE™, FROST™, or MILLENNIA® panels.
- Numbered ceiling panels match shop drawings for easy installation.
- Available in Square, Fineline, and Shadowline edges.
- Custom designs available.
- All panels available in White. FROST panels available in Standard colors, Advantage colors and custom colors.

Applications
- Educational
- Health care
- Retail space
- Theme and whimsical areas

Substrate
- X-Technology mineral fiber
- Cast mineral fiber (FROST)

Call 888.874.2450 for color samples

White

Standard Colors

Parchment 103 | Manila 246 | Beige 142 | Straw 143 | Sandstone 090 | Taupe 107 | Charcoal 534 | Flat Black 205

Advantage Colors

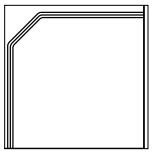
Silvertone 052 | Breeze 2659 | Blue Grey 564 | Azure 2660 | Slate 568 | Spruce 567 | Tuscany 2663 | Sorbet 2658 | Squash 2662 | Safari 2662 | Redwood 566 | Sienna 565 | Halo 206 | Mist 053 | Nectar 546 | Quartz 082

Product Information

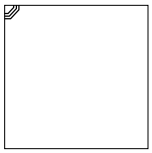
Materials[3]	Finishes	Typical Sizes	Available Panels and Edges						Sound Rating[4]	
				SQ	SLT	SLB	FL	FLB	NRC	CAC[5]
Mineral-fiber ceiling panels	All panels available in White. FROST panels available in Standard colors, Advantage colors and custom colors.	2′ x 2′	ECLIPSE	•	•		•		.70	35
			FROST			•	•	•		
			MILLENNIA	•	•			•		

Patterns

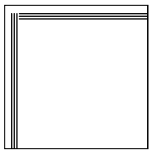
RENDITIONS I Outside Corner



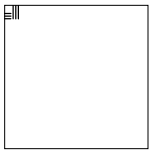
RENDITIONS I Inside Corner



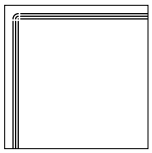
RENDITIONS II Outside Corner



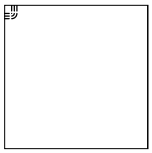
RENDITIONS II Inside Corner



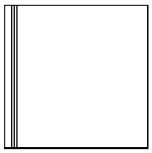
RENDITIONS III Outside Corner



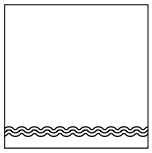
RENDITIONS III Inside Corner



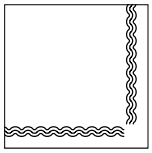
Straight Line



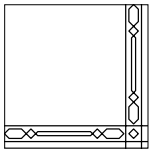
Curls-S



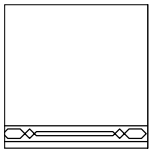
Curls-SE



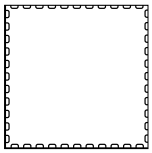
Deco-SE



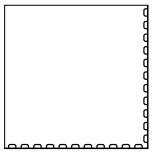
Deco-S



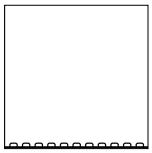
Dentil-2



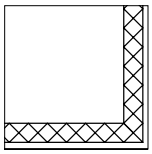
Dentil-SE



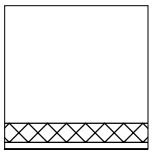
Dentil-S



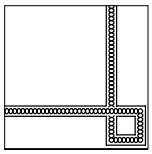
Diagonal-SE



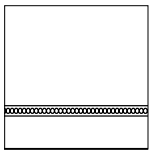
Diagonal-S



Tara-SE



Tara-S



Physical Data/ Footnotes

Product literature
Data sheet: IC327
Product guide: IC501

Recycled Content
See the Sustainability selector.

Footnote
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. RENDITIONS panels only available as Class A.
4. Non-face-routed panels.
5. CAC values will depend on edge and suspension system.

Note
Panels with RENDITIONS face routing do not carry USG's *CLIMAPLUS*™ non-sag warranty. Refer to standard commercial ceilings warranty.

Rock Face® *ClimaPlus*™

Rock Face Panels with *ClimaPlus* Superior Performance/
Donn DX/DXL Suspension System

LEED Credits

Recycled Content: 49%
ClimaPlus Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits

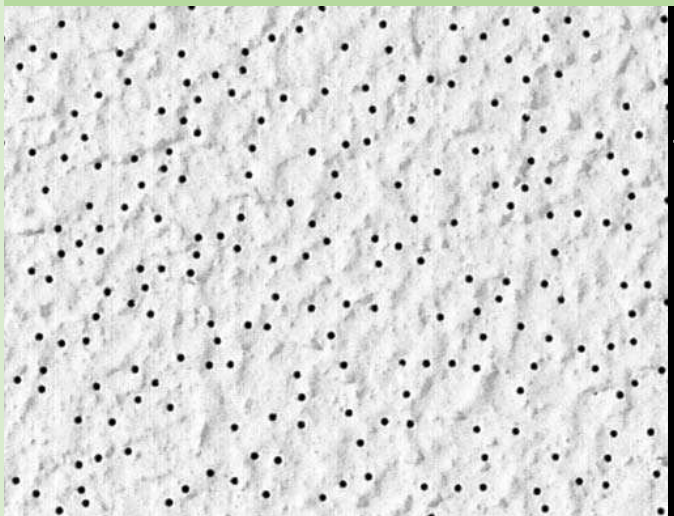
– Specially compounded textured surface with hard core.
– Perfect for increased abuse resistance and sag resistance.
– *ClimaPlus* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a Donn® brand suspension system.
– Firecode™ formulation designed to meet life safety codes.

Applications

– Athletic areas and exercise rooms
– Schools
– Corridors
– Dormitory rooms

Substrate

– Water-felted mineral fiber



Fine-textured panel

Call 888 874.2450 for samples

White

UL Classified

30 Year System Warranty – No visible sag – Mold/mildew protection	Edge	Panel Size	Class[3]	Item No.	NRC	CAC Min.	LR[4]	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Abuse-Resistant	Recycled Content[5]	Panel Cost
Rock Face *ClimaPlus* Panels	SQ	**2′x2′x5/8″**		**56335**	.55	35	.86	White	A, B, C	Low	●	●	49%	**$$**
		2′x4′x5/8″		**56380**	.55	35	.86	White	A, B, C	Low	●	●	49%	**$$**
	SLT	**2′x2′x3/4″**		**55483**	.55	35	.86	White	D, E, F	Low	●	●	49%	**$$**

Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Superior Performance[6]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

	A	B	C	D	E	F
	DX®/DXL™	DXLA™	ZXLA™	DX/DXL	DXLA	ZXLA
Grid Profile Options						

Physical Data/ Footnotes

Product literature
Data sheet: SC1840

ASTM E1264 classification
Type III, Form 2, Pattern CE

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
1.0-1.3 lb./sq. ft.

Thermal resistance
R-1.6 (5/8″ panels)
R-1.9 (3/4″ panels)

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Durability tests
ASTM D1037: Tested to 45 lbf. for a 1/4″ depression by a Janka ball.
ASTM D5420: Tested to 3.5 in./lbf. for impaction.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Fire-rated items: see UL design details.
4. LR values are shown as averages.
5. For details, see Sustainability selector.
6. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Sandrift™ *ClimaPlus*™

10
Year Availability
808, 809

SANDRIFT Panels with *CLIMAPLUS* Superior Performance/
DONN DX/DXL Suspension System

LEED Credits
Recycled Content: 70% – 71%
CLIMAPLUS Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits
- Uniquely textured cast product with durable surface that resists scrapes commonly caused by accessing the ceiling plenum.
- Integral color masks nicks and scratches.
- Optional FIRECODE™ formulation designed to meet life safety codes.
- *CLIMAPLUS* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a DONN® brand suspension system.

Applications
- Conference and lobby areas
- Department stores
- Entertainment and gaming
- Executive offices
- Restaurants

Substrate
- Cast mineral fiber

Fine-textured panel

Call 888 874.2450 for color samples

White

Standard Colors

Parchment 103 | Manila 246 | Beige 142 | Straw 143 | Sandstone 090 | Taupe 107 | Charcoal 534 | Flat Black 205

Advantage Colors

Silvertone 052 | Breeze 2659 | Blue Grey 564 | Azure 2660 | Slate 568 | Spruce 567 | Tuscany 2663 | Sorbet 2658 | Squash 2662 | Safari 2662 | Redwood 566 | Sienna 565 | Halo 206 | Mist 053 | Nectar 546 | Quartz 082

30 Year System Warranty
– No visible sag
– Mold/mildew protection

	Edge	Panel Size	Class	Item No.	UL Classified NRC	CAC Min.	LR[3]	Color[4]	Grid Options	VOC Emissions	Anti-Mold & Mildew	Abuse Resistant	Recycled Content[5]	Panel Cost
SANDRIFT *CLIMAPLUS* Panels	SL	**2′x2′x3/4″**	Class A	**808**	.70	38	.83	White Standard Advantage	A	Zero	●	●	71%	**$$**
	FL	**2′x2′x3/4″**	Class A	**809**	.70	38	.83	White Standard Advantage	B, C, D	Zero	●	●	71%	**$$**
SANDRIFT Non-*CLIMAPLUS* Panels	SL	**2′x2′x3/4″** Foil-Back		**815**	.55	35	.83	White	A	Zero	●	●	70%	**$$**

Legend

Zero Emissions (VOC Class)
Classified as zero-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***CLIMAPLUS* Superior Performance[6]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

	A	B	C	D
	DONN® DX®/DXL™	CENTRICITEE™ DXT	FINELINE® 1/8 DXFF	FINELINE DXF
Grid Profile Options				

Physical Data/ Footnotes

Product literature
Data sheet: SC1841

ASTM E1264 classification
Type III, Form 4, Pattern Z

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
1.65-1.70 lb./sq. ft. (Class A)
FIRECODE weight

Thermal resistance
R-1.7 (Class A)
R-1.3 (Firecode)

Maximum backloading
See Warranty for details.

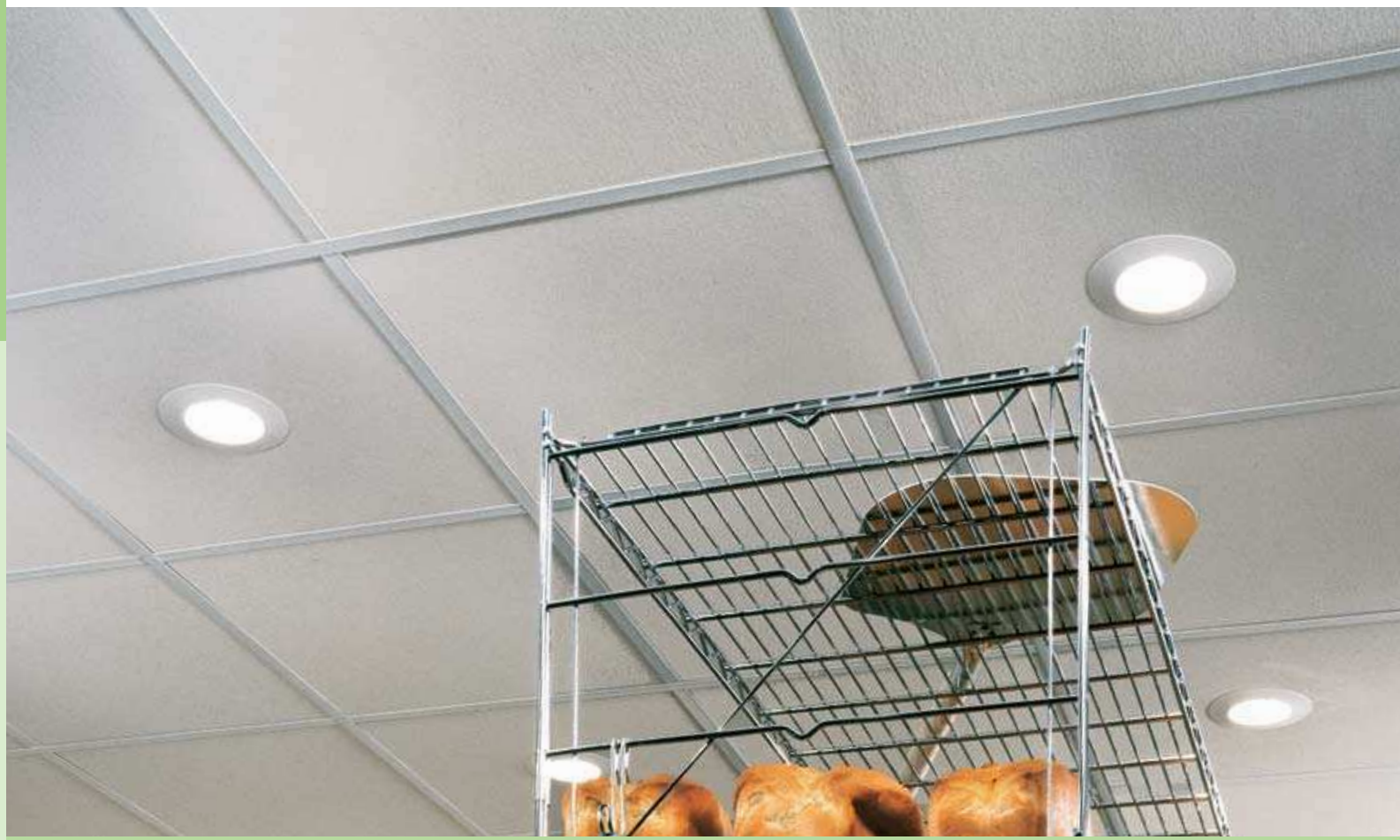
Maintenance
Can be cleaned easily with a soft brush or vacuum.

Texture
The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing feature of these products. Because of potential variances between production dates, we recommend ordering and installing cast products by production lot number.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. LR values are shown as averages.
4. To highlight the unique texture of SANDRIFT *CLIMAPLUS* panels, choose light colors. See Colors selector for more information.
5. For details, see Sustainability selector.
6. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *CLIMAPLUS Ceilings Certification of Performance* (SC2451).

Sheetrock® Lay-In Ceiling Panel *ClimaPlus*™

10
Year Availability
3270



Sheetrock Lay-In Ceiling Panel, Vinyl, with *ClimaPlus* Performance/
Donn ZXLA Suspension System

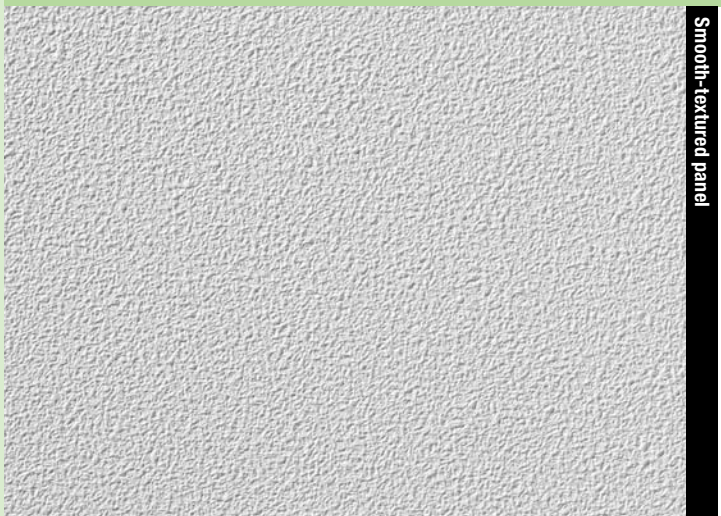
LEED Credits
Recycled Content: 23%
ClimaPlus No-Sag Warranty

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
	●	●	●		●	●

Features and Benefits
- Panels meet U. S. Dept. of Agriculture Food Safety Inspection Service requirements for food processing areas.
- Sheetrock® brand Clean Room™ lay-in ceiling panels can be used in cleanroom environments up to Class 100.
- *ClimaPlus*™ 30-year lifetime no-sag system warranty up to 104 °F (40 °C)/95% relative humidity when used with a Donn® brand suspension system.

Applications
- Exterior protected soffits
- Kitchens and food preparation areas
- Restrooms and utility areas
- Locker rooms
- Marine environments

Substrate
- Gypsum panel



Smooth-textured panel

Call 888 874.2450 for color samples

White

30 Year System Warranty – No visible sag

UL Classified

	Edge	Panel Size	Class[2]	Item No.	NRC[3]	CAC Min.	LR[4]	Color	Abuse-Resistant	Grid Options	Recycled Content[5]	Panel Cost
SHEETROCK Lay-In Ceiling Panel *CLIMAPLUS*, Vinyl	SQ	**2′x2′x1/2″**		**3260**	—	35	.77	White		A, B, C, D,	23%	**$**
		2′x4′x1/2″		**3270**	—	40	.77	White		A, B, C, D,	23%	**$**
SHEETROCK Lay-In Ceiling Panel *CLIMAPLUS*, CLEAN ROOM[6]	SQ	**2′x4′x1/2″**		**3200**	—	40	.77	White		A, B, C, D,	23%	**$$**

	A DONN® DX®/DXL™	**B** DONN® DXLA™	**C** ZXLA™	**D** DONN CE™[7]
Grid Profile Options				

Physical Data/ Footnotes

Product literature
Data sheet: SC1820

ASTM E1264 classification
Type XX, Pattern G

ASTM E84 surface burning characteristics
Class A
Vinyl
Flame spread: 25
Smoke developed: 50
CLEAN ROOM
Flame spread: 25
Smoke developed: 50

Weight
1/2″ = 2.00 lb./sq. ft.

Thermal resistance
1/2″ = up to R-0.45

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a damp sponge. Use mild detergent and water – do not use acetate, ammonia or high concentration of chlorine, bromide or other harsh chemicals.

U.S. Coast Guard acceptance
Approved for use on merchant ships.

Footnotes
1. Dependent on location; see Sustainability selector.
2. Fire-rated items: see UL design details.
3. NRC rating is .10. USG does not consider a ceiling panel to be acoustically rated if NRC is less than .50
4. LR values are shown as averages.
5. For details, see Sustainability selector.
6. Field-cut edges of CLEAN ROOM panels must be sealed with white latex paint.
7. Clean-room-rated applications require a suspension system with gasketed tee flanges such as DONN CE.

Summit™ *ClimaPlus*™

Summit Panels with *ClimaPlus* Superior Performance/
Donn Fineline 1/8 DXFF Suspension System

LEED Credits

Recycled Content: 63%
ClimaPlus Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits

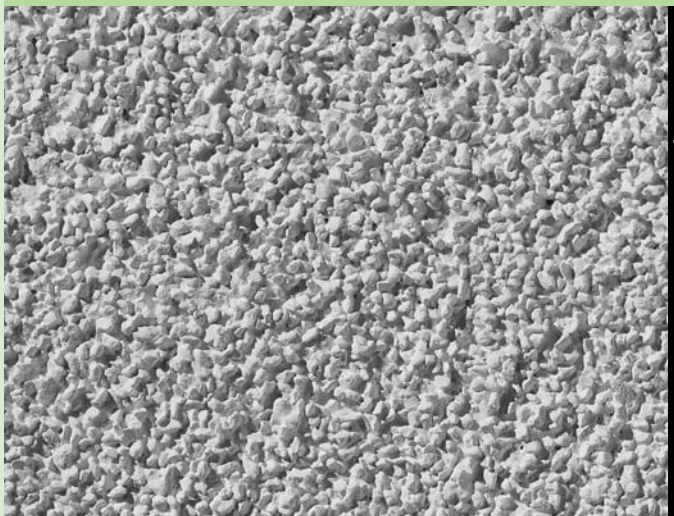
– Fine-textured cast product with an extremely durable, impact-resistant surface.
– Excellent combination of noise reduction (NRC) and sound attenuation (CAC).
– *ClimaPlus* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a Donn® brand suspension system.

Applications

– Open and closed office plans
– Schools
– Airports
– Convention centers
– Conference and lobby areas
– Healthcare

Substrate

– Cast mineral fiber



Fine-textured panel

Call 888 874.2450 for samples

White

30 Year System Warranty
– No visible sag
– Mold/mildew protection

	Edge	Panel Size	Class	Item No.	UL Classified NRC	UL Classified CAC Min.[3,4]	LR[5]	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Abuse-Resistant	Recycled Content[6]	Panel Cost
Summit *ClimaPlus*	SLB	**2′x2′x3/4″**	Class A	**990**	.70	38	.81	White	A	Free	●	●	63%	**$$$**
	FLB	**2′x2′x3/4″**	Class A	**991**	.70	38/40	.81	White	B, C, D	Free	●	●	63%	**$$$**

Legend

Zero Emissions (VOC Class)
Classified as zero-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Superior Performance[7]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

	A	B	C	D
	DX®/DXL™	Centricitee™ DXT	Fineline® 1/8 DXFF	Fineline® DXF
Grid Profile Options				

Physical Data/ Footnotes

Product literature
Data sheet: SC2432

ASTM E1264 classification
Type III, Form 4, Pattern E

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
1.95 lb./sq. ft.

Thermal resistance
R-1.7

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Durability Tests
ASTM C367 – tested to 260 lbf. for 1/4″ depression by a 2″ steel ball.
ASTM D1037 – tested to 60 lbf. for 1/4″ depression by Janka ball.

Impact resistance
ASTM D5420 – tested to 3.8 in./lbf. for impaction resistance.

Texture
The manufacturing process for cast ceiling panels creates natural, subtle texture variations, which is a distinguishing feature of these products. Because of potential variances between production dates, we recommend ordering and installing color cast products by production lot number.

Footnote
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Item No. 991 achieves 40 CAC when installed with Fineline DXF or Fineline 1/8 DXFF suspension system.
4. Adding sound masking can be as effective as using a ceiling panel with a higher CAC rating, providing increased privacy between enclosed office spaces.
5. LR values are shown as averages.
6. For details, see Sustainability selector.
7. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Touchstone™ *ClimaPlus*™

TOUCHSTONE Panels with *CLIMAPLUS* Superior Performance/
DONN DX/DXL Suspension System

LEED Credits

Recycled Content: 48%
CLIMAPLUS Superior Performance for Mold/Mildew

MR				EQ		
Waste Reduction[1]	Recycled Content	Regional Materials[2]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●	●	●	●	●

Features and Benefits

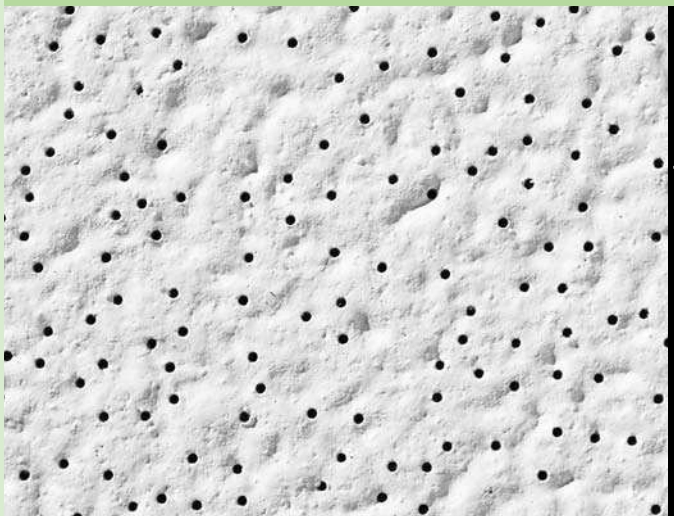
– Panels are scuff- and abuse-resistant and can withstand day-to-day activity in high traffic areas.
– *CLIMAPLUS* 30-year lifetime system warranty to withstand conditions up to 104 °F (40 °C)/95% relative humidity without visible sag when used with a DONN® brand suspension system.
– FIRECODE™ formulation designed to meet life safety codes.

Applications

– Schools
– General offices
– Retail stores

Substrate

– Water-felted mineral fiber



Medium-textured panel

Call 888 874.2450 for samples

White

30 Year System Warranty
– No visible sag
– Mold/mildew protection

UL Classified

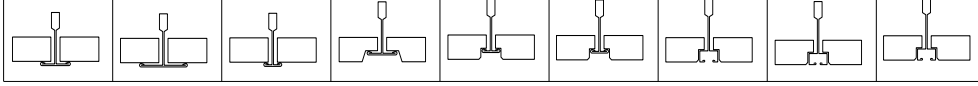
	Edge	Panel Size	Class[3]	Item No.	NRC	CAC Min.	LR[4]	Color	Grid Options	VOC Emissions	Anti-Mold & Mildew	Abuse-Resistant	Recycled Content[5]	Panel Cost
Touchstone *ClimaPlus* Panels	SQ	**2′x2′x5/8″**		**5893**	.55	35	.86	White	A, B, C	Low	●		48%	**$$**
		2′x4′x5/8″		**5894**	.55	35	.86	White	A, B	Low	●		48%	**$$**
	SLT	**2′x2′x5/8″**		**5896**	.55	35	.86	White	D	Low	●		48%	**$$**
	FLB	**2′x2′x5/8″**		**5899**	.55	35	.86	White	E, F, G, H, I	Low	●		48%	**$$**

Legend

Low Emissions (VOC Class)
Classified as low-emitting per standards established by the Collaborative for High-Performance Schools (CHPS), following California Specification 01350 testing methods.

***ClimaPlus* Superior Performance[6]**
Contains a broad-spectrum antimicrobial treatment on the face and back of the panel that provides guaranteed resistance against the growth of mold/mildew, fungi, yeast, algae, and Gram-positive and Gram-negative odor/stain-causing bacteria.

	A	B	C	D	E	F	G	H	I
Grid Profile Options	DX®/DXL™	DXW™	Centricitee™ DXT	DX/DXL	Centricitee[9]	Centricitee DXLT	Fineline® DXF	Fineline® 1/8 DXFF	Fineline® DXLF



Physical Data/ Footnotes

Product literature
Data sheet: SC2214

ASTM E1264 classification
Type III, Form 2, Pattern CEI

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
1.0-1.3 lb./sq. ft.

Thermal resistance
R-1.6

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Footnotes
1. Applies when USG acoustical ceilings recycling program is utilized.
2. Dependent on location; see Sustainability selector.
3. Fire-rated items: see UL design details.
4. LR values are shown as averages.
5. For details, see Sustainability selector.
6. Panel face and back surfaces treated with a patented, broad-spectrum antimicrobial standard formulation that inhibits and retards the growth of mold/mildew, fungi, yeast, and odor/stain-causing Gram-positive and Gram-negative bacteria. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *ClimaPlus Ceilings Certification of Performance* (SC2451).

Suspension Systems

Selectors

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218	DX/DXL Concealed 15/16″
220	DXLA Aluminum-Capped Fire-Rated 15/16″
222	DXSS Stainless Steel 15/16″
224	DXW 1-1/2″
226	Fineline DXF with 1/4″ Reveal
228	Fineline 1/8 DXFF with 1/8″ Reveal
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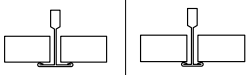
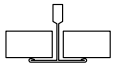
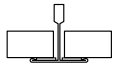
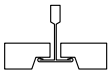
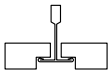
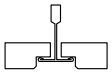
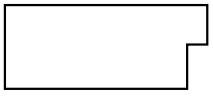
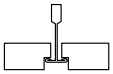
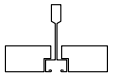
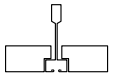
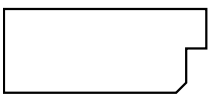
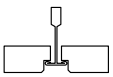
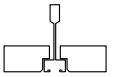
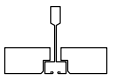
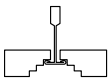
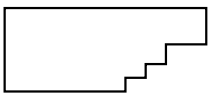
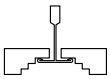
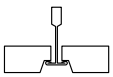
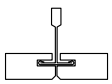
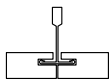
System Interface

Suspension System

Edge Detail	DX/DXL/ DXLA/ AX/ ZXLA/ DXSS[1,2]	Centricitee DXT[2,3]	Fineline DXF[2]	Fineline 1/8 DXFF	DXW (1-1/2″ wide)	CE (Controlled Environments)	DXL Concealed
Square Edge SQ							
Shadowline Tapered SLT							
Shadowline (SL)							
Shadowline Bevel SLB							
Fineline FL							
Fineline Bevel FLB							

1. AX, DXLA, ZXLA and DXSS Suspension Systems provide environmental resistance; they have the same profile as DX/DXL and can utilize the same edge details.
2. DX/DXL, DXLA, ZXLA, DXLF, and DXLT fire-rated suspension systems and FIRECODE formulation panels may have restrictions on size and application; refer to appropriate UL Design for acceptable components.
3. Square edge panels are not recommended with 2′x4′ modules using 9/16″ grid.
4. ILT edge is applicable only to Illusion and Pedestals face-cut products.

	Edge Detail	**DX/DXL/ DXLA/ AX/ ZXLA/ DXSS[1,2]**	**CENTRICITEE DXT[2, 3]**	**FINELINE DXF[2]**	**FINELINE 1/8 DXFF**	**DXW (1-1/2″ wide)**	**CE (Controlled Environments)**	**DXL Concealed**
Pedestals PE/ILT								
Pedestals PE/SLT								
Interline Tapered[4] ILT								
BESK								
SESK								

Standard and Advantage Colors

Standard Colors: Available for quick delivery, with one-carton minimum for suspension systems and ceiling panels.

Note: Suspension systems have color caps only.

Advantage Colors: Available within five weeks. One-carton minimum per component for suspension systems; minimum panel quantity applies. Suspension systems and panels also available in custom colors. Contact your USG sales representative for details.

	Product	Item No.	Color Options	Size	Page No.
Centricitee DXT		DXT24	Standard and Advantage colors, Bronze 774	9/16″	215
		DXT222	Standard and Advantage colors, Bronze 774	9/16″	215
		DXT424	Standard and Advantage colors, Bronze 774	9/16″	215
	Wall Molding	M9	Standard and Advantage colors	9/16″	215
		MS174	Standard and Advantage colors	9/16″	215
DX/DXL		DX/DXL24	Standard and Advantage colors, Plated Brass and Plated Chrome	15/16″	217
		DX/DXL216	Standard and Advantage colors, Plated Brass and Plated Chrome	15/16″	217
		DX/DXL424	Standard and Advantage colors, Plated Brass and Plated Chrome	15/16″	217
	Wall Molding	M7, M70L	Standard and Advantage colors	7/8″	217
		M20	Custom colors	2″	217
		MS274	Custom colors	2″	217
DXLA		DXLA24	Silver Satin and custom colors	15/16″	221
		DXLA26	Custom colors	15/16″	221
		DXLA216	Silver Satin and custom colors	15/16″	221
		DXLA424	Silver Satin and custom colors	15/16″	221
	Wall Molding	M7Z	Silver Satin and custom colors	7/8″	221
DXW		DXW26	Custom colors	1-1/2″	225
		DXW224	Custom colors	1-1/2″	225
		DXW424	Custom colors	1-1/2″	225
	Wall Molding	M7, M70L	Custom colors	7/8″	225
		M12	Custom colors	1-1/2″	225
		M20	Custom colors	2″	225
Fineline DXF/DXLF		DXF2924	Silver Satin and custom colors	9/16″	227
		DXF229	Silver Satin and custom colors	9/16″	227
		DXF429N	Silver Satin and custom colors	9/16″	227
	Wall Molding	M7, M70L	Custom colors	7/8″	227
		M9	Silver Satin	9/16″	227
		MS174	Silver Satin	9/16″	227
Fineline 1/8 DXFF		DXFF2924	Custom colors	9/16″	229
		DXFF2930	Custom colors	9/16″	229
		DXFF2948	Custom colors	9/16″	229
		DXFH2924	Custom colors	9/16″	229
		DXFF229	Custom colors	9/16″	229
		DXFF429	Custom colors	9/16″	229
		DXFF429N	Custom colors	9/16″	229
		DXFF429S	Custom colors	9/16″	229
	Wall Molding	M9	Custom colors	9/16″	229
		MS174	Custom colors	9/16″	229
ZXLA		ZXLA24	Custom colors and Silver Satin	15/16″	231
		ZXLA26	Custom colors and Silver Satin	15/16″	231
		ZXLA224	Custom colors and Silver Satin	15/16″	231
		ZXLA424	Custom colors and Silver Satin	15/16″	231
	Wall Molding	M7Z	Custom colors and Silver Satin	7/8″	231

Samples shown are representative of color.
Please request a sample for actual color by calling 888 874.2450.
Note: *ClimaPlus* Superior Performance and AntiMicrobial Treatment for mold/mildew available only with White panels.

	Parchment 103	Manila 246	Beige 142	Straw 143	Sandstone 090	Taupe 107
Standard Colors Ceiling Panels and Suspension Systems	Charcoal 534	Flat Black 205				
	Silvertone 052	Breeze 2659	Blue Grey 564	Azure 2660	Slate 568	Spruce 567
Advantage Colors Ceiling Panels and Suspension Systems	Tuscany 2663	Sorbet 2658	Squash 2661	Safari 2662	Redwood 566	Sienna 565
	Halo 206	Quartz 082	Nectar 546	Mist 053		
	Silver Satin 002	Plated Brass 065	Plated Chrome 066	Bronze 774		
Suspension Systems Only						

System Performance

Load Carrying

Only Donn suspension systems meet the ASTM C635 standard for load compliance. USG routinely tests Donn main tees to certify that they perform as stated, further strengthening Donn suspension systems as the industry leader in products and integrity.

The associated load ratings are:

Light Duty – 5 pounds per lineal foot.

Intermediate Duty – 12 pounds per lineal foot.

Heavy Duty – 16 pounds per lineal foot.

Per ASTM C635, a main tee is supported 48″ o.c. and subjected to the load for its duty classification; the tee may not deflect more than 0.133″, or L/360, where L equals the unsupported span.

Fire Resistance

Many Donn systems are designed for use in fire-rated applications, with available fire-notched main tees and heavier-gauge cross tees. USG also offers the industry's only all-fire-rated suspension system, DX/DXL. This system includes DX24 and DX26 main tees and DX216 and DX424 cross tees, which may be used in both Class A and fire-rated installations. These versatile components help our customers by reducing their inventories, streamlining the planning and ordering processes, and simplifying the product line.

Special Applications

Some applications present exceptional functional requirements or are subject to stringent criteria mandated by third parties such as USDA. USG offers several Donn systems that provide excellent design flexibility and meet the environmental demands found in some of the most challenging spaces:

Cleanrooms – contamination, humidity, pressure and airborne particles.

Indoor swimming pools – temperature and humidity.

Non-magnetic environments – standard suspension systems can interfere with the performance of MRI and other equipment that used or creates magnetic fields.

Food service areas – USDA Food Safety Inspection Service requirements.

Restrooms and shower areas – temperature, humidity and wet cleaning.

Parking garages and exterior soffits – temperature, humidity and wet cleaning.

Laboratories – corrosive agents.

Materials

All USG suspension systems – except those made from aluminum and stainless steel – feature a body and cap made of hot-dipped galvanized steel. To ensure that the cap remains attractive and rust-free for the long term, manufacturing includes an exclusive four-step coating process that outperforms the competition in paint adhesion and corrosion resistance, as proven by industry-standard salt spray tests conducted by an independent laboratory.

For extreme environments we offer the ZXLA system, with hot-dipped galvanized steel body and painted aluminum cap for additional corrosion and humidity resistance.

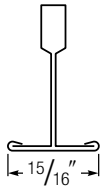
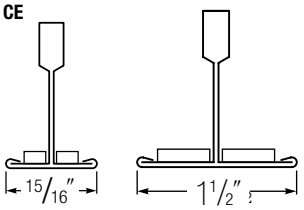
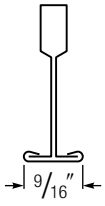
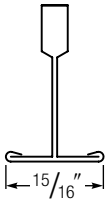
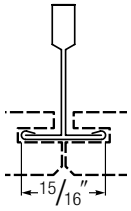
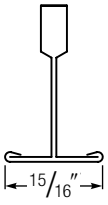
Aluminum is offered for wet-cleaned and non-magnetic applications such as food-processing areas, magnetic-free zones and MRI rooms.

Stainless Steel is non-magnetic and resists many corrosive agents, making it an ideal material for use in industrial and laboratory applications.

Suspension System	Hot-Dipped Galvanized Steel	Aluminum	Stainless Steel
AX		●	
CE	●		
Centricitee DXT/DXLT	●		
DX/DXL	●		
DX/DXL Concealed	●		
DXLA	● Body	● Cap	
DXSS			●
DXW	●		
Fineline DXF/DXLF	●		
Fineline 1/8 DXFF	●		
ZXLA	● Body	● Cap	
USG Drywall Suspension System	●		

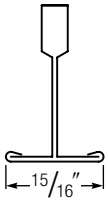
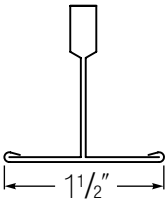
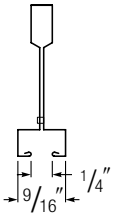
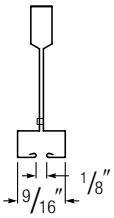
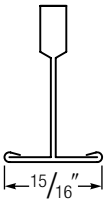
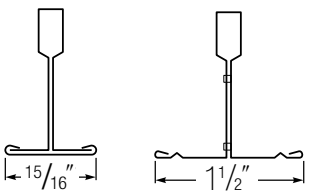
Applications

System meets or exceeds load compliance specifications per ASTM C635

Grid Profile	Load Ratings: Heavy Duty	Load Ratings: Intermediate Duty	Load Ratings: Light Duty	Fire Rating	Special Environments: Cleanrooms	Indoor Pools	Non-Magnetic Environments	Food Service	Restrooms	Shower Areas	Parking Garages	Exterior Soffits	Laboratories
	ⓜ	ⓜ		🔥									
AX 		ⓜ	●				●	●	●				
CE 	ⓜ	ⓜ			●								
Centricitee DXT/DXLT 	ⓜ	ⓜ		🔥									
DX/DXL 	ⓜ	ⓜ		🔥									
DX/DXL Concealed 	ⓜ	ⓜ		🔥									
DXLA 	ⓜ	ⓜ		🔥				●	●				

ⓜ **New Donn Seismic Solutions**
Because Donn Heavy Duty and Intermediate Duty main tees use the strongest-gauge steel and the most robust connection clips and splices—producing the tightest systems available with the greatest lateral and torsional stiffness—we can offer systems in both classes that meet IBC seismic design categories D, E, and F, including designs with 7/8-in. wall angle.

System meets or exceeds load compliance specifications per ASTM C635

Grid Profile	Load Ratings: Heavy Duty	Load Ratings: Intermediate Duty	Load Ratings: Light Duty	Fire Rating	Special Environments: Cleanrooms	Indoor Pools	Non-Magnetic Environments	Food Service	Restrooms	Shower Areas	Parking Garages	Exterior Soffits	Laboratories
DXSS 			●				●	●	●				●
DXW 	●												
Fineline DXF/DXLF 	●	●		●									
Fineline 1/8 DXFF 	●	●											
ZXLA 	●	●		●		●		●	●	●	●	●	
USG Drywall Suspension System 	●			●									

New Donn Seismic Solutions
Because Donn Heavy Duty and Intermediate Duty main tees use the strongest-gauge steel and the most robust connection clips and splices—producing the tightest systems available with the greatest lateral and torsional stiffness—we can offer systems in both classes that meet IBC seismic design categories D, E, and F, including designs with 7/8-in. wall angle.

AX™

USG

10
Year Availability

Donn AX Suspension System/
Eclipse Panels with *ClimaPlus* Performance

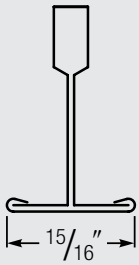
LEED Credits
Recycled Content: 25%

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

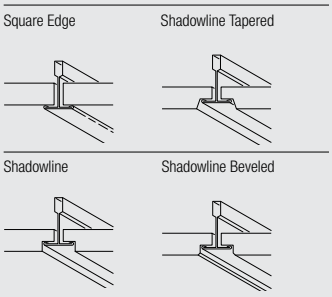
Features and Benefits
- Non-corrosive aluminum 15/16″ exposed grid system ideal for high-humidity or wet-cleaned areas.
- Aluminum components can be used in non-magnetic environments and meet USDA/FSIS requirements.
- Patented Quick-Release™ cross tees.
- Cross-tee override ends resist twisting and give a professionally finished look.

Applications
- Food processing areas
- High-humidity areas
- Light-duty applications
- Magnetic-free zones
- MRI rooms

Profile

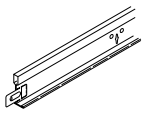
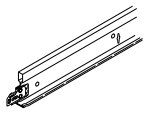


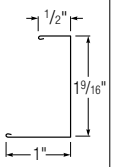
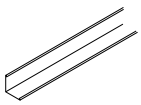
Edge Detail



Call 888 874.2450 for samples

Flat White

								Rated Load[2,3]	
		ASTM Class	Length	Height	Item No.	Class	Color	3′ Hanger Spacing	4′ Hanger Spacing
System meets or exceeds load compliance specifications per ASTM C635									
15/16″ Tee System	**Main Tee**	Light Duty	**12′**	**1-1/2″**	**AX26**	Class A	Flat White	12.0 lbs./LF	6.9 lbs./LF
	**Cross Tee**		**2′**	**1-1/2″**	**AX224**	Class A	Flat White		
			**4′**	**1-1/2″**	**AX424**	Class A	Flat White		

	Wall Angle	Length	Item No.	Color	Wall Angle	Length	Item No.	Color
Molding[4,5]		**12′**	**M7A**	Flat White		**10′**	**UA25**	Flat White
								

Physical Data/ Footnotes

Product literature
Data sheet: AC3041

Product Information
See usg.com for the most up-to-date product information.

Material
Double web aluminum tee with aluminum cap and stainless steel Quick- Release Clip.

Recycled content
25%. For details, see the Sustainability selector.

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.

Limitations
Severe Environmental Requirements: For exposed grids in non-fire-rated, extreme-humidity applications, this system is acceptable.

ICC Evaluation Service, Inc., Report Compliance
Suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in ICC-ES Evaluation Reports. Evaluation Reports are subject to reexamination, revision and possible cancellation. Please refer to usgdesignstudio.com or 800 USG.4YOU for current reports.

L.A. Research Report Compliance
Donn brand suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095.

The City of New York BSA and MEA Report Compliance
Donn suspension systems have been approved by listing in one or more of the following City of New York Board of Standards and Appeals, and Department of Building, Material and Equipment Acceptance reports: BSA 618-60-SM, BSA 184-77-SM, BSA 796-81-SM, MEA 366-93-M, MEA 133-95-M, MEA 312-99-M, MEA 123-00-M.

ASTM C635 Standard for Load Compliance
This sytem meets or exceeds load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or (L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Footnotes
1. Dependent on location; contact your USG representative.
2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
3. For detailing and module loading, request AC274QRC.
4. For more information on moldings, see Perimeter Interface selector.
5. Panels must be specified to be field-cut to size and field-revealed to provide as wide a lay-on edge as possible.

CE™

USG

DONN CE Suspension System/
CLEAN ROOM Panels with *CLIMAPLUS* Performance—Class 100

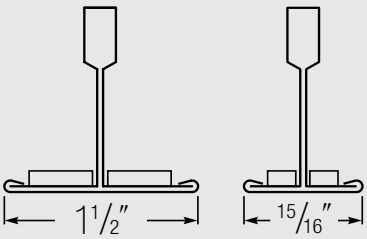
LEED Credits
Recycled Content: 25%

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

Features and Benefits
- Grid system with factory-applied closed-cell foam gaskets for controlled-environment rooms.
- Hot-dipped galvanized body provides unequaled corrosion protection.
- Certified for Class 100 cleanroom environment per Federal Standard 209(e).
- Meets or exceeds all national code requirements, including seismic.
- Supports cleanroom HEPA filters and lights.

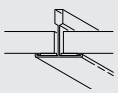
Applications
- Controlled environments
- Hospitals
- Food processing areas
- Cleanrooms to Class 100

Profile



Edge Detail

Square Edge



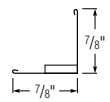
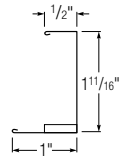
Call 888 874.2450 for color samples

Flat White

System meets or exceeds load compliance specifications per ASTM C635

		ASTM Class	Length	Height	Item No.	Class	Color	Seismic Zones UBC	Seismic Zones IBC	Seismic Solutions Categories D, E, F Alternate Method	Rated Load[2,3,4,5] 4′ Hanger Spacing	5′ Hanger Spacing	6′ Hanger Spacing
1-1/2″ Tee System	**Main Tee**	Heavy Duty	**12′**	**1-1/2″**	**DXWCE26**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	16 lbs./LF	7.3 lbs./LF	4.9 lbs./LF
	Cross Tee 1-1/2″		**2′**	**1-1/2″**	**DXWCE224**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	65.0 lbs./LF		
			4′	**1-1/2″**	**DXWCE424**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	13.8 lbs./LF		
15/16″ Tee System	**Main Tee**	Intermediate Duty	**12′**	**1.64″**	**DXCE24**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
	Cross Tee		**2′**	**1-1/2″**	**DXCE224**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip			
			4′	**1-1/2″**	**DXCE424**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip			

New Donn Seismic Solutions
– Meets or exceeds all national code requirements with 7/8″ wall molding.
– Fulfills requirements for IBC seismic design categories A-F.
– Certified with maximum sq. ft. weights, representing complete ceiling systems.
– Compliance with IBC seismic design categories D, E, and F with USG Intermediate Duty system without perimeter wires.

	Wall Angle	Length	Item No.	Color
Molding[6,7]		**12′**	**M7CE**	Flat White
		**10′**	**US28CE**	Flat White

Physical Data/ Footnotes

Product literature
Data sheet: AC3129

Material
Double-web hot-dipped galvanized steel body and hot-dipped galvanized steel cap.

Recycled content
25%. For details, see the Sustainability selector.

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.

Limitations
Severe Environmental Requirements: For exposed grids in non-fire-rated high-humidity applications, use aluminum or ZXLA™ suspension systems.

For exterior applications, suspension should be reviewed by a structural engineer.
Not recommended with metal panels. If metal panels are used, a gasket may be applied to the CE suspension system through special order.

ICC Evaluation Service, Inc., Report Compliance
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L.A. Research Report Compliance
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The City of New York BSA and MEA Report Compliance
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ASTM C635 Standard for Load Compliance
This system meets or exceeds load compliance specifi-cations per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or (L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Testing
Particulate Test and Ceiling Integrity Tests per Federal Standard 209(e) are available from Technical Service.

Footnotes
1. Dependent on location; contact your USG representative.
2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
3. Do not use standard lay-in light fixtures with this system.
4. HEPA filters must be supported at all four corners of grid module.
5. For detailing and module loading, please request AC3128.
6. For more information on moldings, see Perimeter Interface selector.
7. Panels must be field-cut to size at the perimeter.

Centricitee™ DXT/DXLT

USG

10
Year Availability

Donn Centricitee DXT Suspension System/
Eclipse Panels with *ClimaPlus* Performance

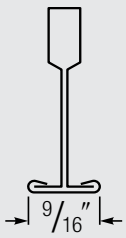
LEED Credits
Recycled Content: 25%

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

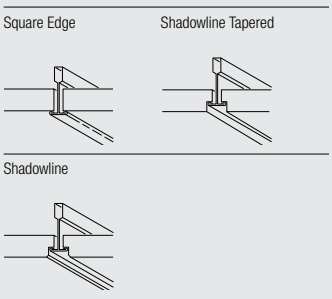
Features and Benefits
- 9/16″ exposed grid offers clean aesthetic.
- Patented panel-centering device allows use of standard square edge panels.
- Cross-tees override ends resist twisting and ensure a finished look.
- Meets or exceeds all national code requirements, including seismic and fire-rated assemblies up to 2 hours. Design flexibility helps meet life safety codes.
- Patented Quick-Release™ cross tees.
- Optional integrated air diffuser.
- Custom color available.

Applications
- Interior general-use areas.
- Fire-rated interior general-use areas.

Profile



Edge Detail



Call 888 874.2450 for color samples

White

Standard Colors

Parchment 103 | Manila 246 | Beige 142 | Straw 143 | Sandstone 090 | Taupe 107 | Charcoal 534 | Flat Black 205

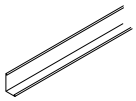
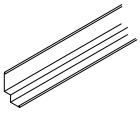
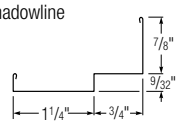
Advantage Colors

Silvertone 052 | Breeze 2659 | Blue Grey 564 | Azure 2660 | Slate 568 | Spruce 567 | Tuscany 2663 | Sorbet 2658 | Squash 2662 | Safari 2662 | Redwood 566 | Sienna 565 | Halo 206 | Mist 053 | Nectar 546 | Quartz 082

System meets or exceeds load compliance specifications per ASTM C635

		ASTM Class	Length	Height	Item No.[4]	Class	Color[5,6]	Seismic Zones UBC	Seismic Zones IBC	Seismic Solutions Categories D, E, F Alternate Method	Rated Load[2,3] 4′ Hanger Spacing	Rated Load[2,3] 5′ Hanger Spacing
9/16″ Tee System	**Main Tee**	Intermediate Duty	**10′**	**1-1/2″**	**DXT24-10**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	12 lbs./LF	6.6 lbs./LF
			12′	**1-1/2″**	**DXT24**	Class A	Flat White Standard Advantage	0-4	A-F	7/8″ Molding ACM7 Clip	12 lbs./LF	6.6 lbs./LF
					DXLT24		Flat White	0-4	A-F	7/8″ Molding ACM7 Clip		
		Heavy Duty	**12′**	**1-1/2″**	**DXT26**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	16 lbs./LF	7.3 lbs./LF
	Cross Tee 1-1/2″		**2′**	**1-1/2″**	**DXT222**	Class A	Flat White Standard Advantage	0-4	A-F	7/8″ Molding ACM7 Clip		
					DXLT222		Flat White	0-4	A-F	7/8″ Molding ACM7 Clip		
			4′	**1-1/2″**	**DXT422**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip		
					DXT424	Class A	Flat White Standard Advantage	0-4	A-F	7/8″ Molding ACM7 Clip		
					DXLT424		Flat White	0-4	A-F	7/8″ Molding ACM7 Clip		

New Donn Seismic Solutions
– Meets or exceeds all national code requirements with 7/8″ wall molding.
– Fulfills requirements for IBC seismic design categories A-F.
– Certified with maximum sq. ft. weights, representing complete ceiling systems.
– Compliance with IBC seismic design categories D, E, and F with USG Intermediate Duty system without perimeter wires.

	Wall Angle	Length	Item No.	Color	Wall Angle	Length	Item No.	Color
Molding[7]		**12′**	**M9**	Flat White Standard Advantage				
	Shadowline[8] 	**12′**	**MS174**	Flat White Standard Advantage	Shadowline 	**10′**	**MS274** 2″ shelf for seismic	Flat White

Physical Data/ Footnotes

Product literature
Data sheet: AC3040

Material
Double-web hot-dipped galvanized steel body; steel cap finished with four-step protective coating.

Recycled content
25%. For details see the Sustainability selector.

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.

Limitations
Severe Environmental Requirements: For exposed grids in non-fire-rated, extreme-humidity applications, use all-aluminum AX™ or ZXLA™ suspension systems. For exterior applications, suspension should be reviewed by a structural engineer.

ICC Evaluation Service, Inc., Report Compliance
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ASTM C635 Standard for Load Compliance
This system meets or exceeds load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Air diffusers
Request AC272-290.

Footnotes
1. Dependent on location; contact your USG representative.
2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
3. For detailing and module loading, request AC2308QRC.
4. For metric products, add "ME" to the product number.
5. Color options are for Class A imperial products.
6. Custom color available.
7. For more information on moldings, see the Perimeter Interface selector.
8. Panels must be specified to be field-cut to size and field-revealed to provide as wide a lay-on edge as possible.

DX®/DXL™

USG

10
Year Availability

DONN DX/DXL Suspension System/
ECLIPSE Panels with *CLIMAPLUS* Performance

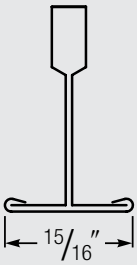
LEED Credits
Recycled Content: 25%

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

Features and Benefits
– 15/16″ exposed tee system. Components for use in general and fire-rated applications.
– Maximum economy and design simplicity.
– DXL system features more than 80 UL designs (up to 3 hours).
– Cross-tee override ends resist twisting and give a professionally finished look.
– Meets or exceeds all national code requirements, including seismic.
– Patented QUICK-RELEASE™ cross tees.
– Custom color available.

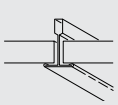
Applications
– Fire-rated, interior general use areas

Profile

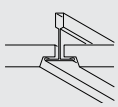


Edge Detail

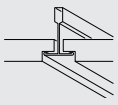
Square Edge



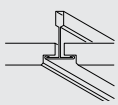
Shadowline Tapered



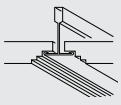
Shadowline



Shadowline Beveled



Pedestals



Call 888 874.2450 for color samples

White

Standard Colors

Parchment 103 | Manila 246 | Beige 142 | Straw 143 | Sandstone 090 | Taupe 107 | Charcoal 534 | Flat Black 205

Advantage Colors

Silvertone 052 | Breeze 2659 | Blue Grey 564 | Azure 2660 | Slate 568 | Spruce 567 | Tuscany 2663 | Sorbet 2658 | Squash 2662 | Safari 2662 | Redwood 566 | Sienna 565 | Halo 206 | Mist 053 | Nectar 546 | Quartz 082

System meets or exceeds load compliance specifications per ASTM C635

		ASTM Class	Length	Height	Item No.	Class[4]	Color[5]	Seismic Zones[2] UBC	Seismic Zones[2] IBC	Seismic Solutions Categories D, E, F Alternate Method	Rated Load[3] 4′ Hanger Spacing	Rated Load[3] 5′ Hanger Spacing	Rated Load[3] 6′ Hanger Spacing[6]
15/16″ Tee System	**Main Tee**	Intermediate Duty	**12′**	**1.64″**	**DX/ DXL24**[7,8]		Flat White Standard Advantage	0-4	A-F	7/8″ Molding ACM7 Clip	12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
		Heavy Duty	**12′**	**1-1/2″**	**DX/ DXL26**[7,8]		Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	16 lbs./LF	7.3 lbs./LF	4.9 lbs./LF
	Cross Tee 1″		**2′**	**1″**	**DX/ DXL216**[8]		Flat White Standard Advantage	0-4	A-F	7/8″ Molding ACM7 Clip			
	Cross Tee 1-1/2″		**4′**	**1-1/2″**	**DX/ DXL424**[8]		Flat White Standard Advantage	0-4	A-F	7/8″ Molding ACM7 Clip			
					DX422[9]	Class A	Flat White Standard Advantage	0-4	A-F	7/8″ Molding ACM7 Clip			
			5′	**1-1/2″**	**DX/ DXL524**[8]		Flat White Standard	0-4	A-F	7/8″ Molding ACM7 Clip			

New Donn Seismic Solutions

– Meets or exceeds all national code requirements with 7/8″ wall molding.
– Fulfills requirements for IBC seismic design categories A-F.
– Certified with maximum sq. ft. weights, representing complete ceiling systems.
– Compliance with IBC seismic design categories D, E, and F with USG Intermediate Duty system without perimeter wires.

	Wall Angle[12]	Length	Item No.	Color	Wall Angle[12]	Length	Item No.	Color
Molding[10]	2″ × 2″	**10′**	**M20SM-2**	Flat White	7/8″ × 7/8″	**12′**	**M7**[8]	Flat White Standard Advantage
	Shadowline[11] 7/8″, 9/32″, 1 1/4″, 3/4″	**10′**	**MS274**[5] 2″ shelf for seismic	Flat White Custom	1″ × 2″	**10′**	**M20**[5] **M20HD** Heavy Duty **M20SM** Seismic	Flat White Custom

Physical Data/ Footnotes

Product literature
Data sheet: AC3167

Material
Double-web hot-dipped galvanized steel body; steel cap finished with four-step protective coating.

Recycled content
25%. For details, see the Sustainability selector.

Installation
Must be installed in compliance with ASTM C636, CISCA or standard industry practices, within all applicable code requirements. See UL Fire Resistance Directory for rated assembly details.

Limitations
Severe Environmental Requirements: Panels in exposed grids in non-fire-rated, high-humidity applications: use all-aluminum AX™ or ZXLA™ painted HDG suspension systems with aluminum cap. Panels in exposed grids in fire-rated, high-humidity applications: use ZXLA suspension systems. For all exterior applications, suspension should be reviewed by a structural engineer.

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ASTM C635 Standard for Load Compliance
System meets or exceeds load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over 48″ span (or L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Footnotes
1. Dependent on location; contact your USG representative.
2. All DX/DXL main-tee and cross-tee connections meet IBC requirements for tension and compression strength.
3. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit of L/360. For detailing and module loading, request AC269QRC.
4. UL fire-rated listing, labeling and follow-up applies only to fire-rated components.
5. Color program for imperial only. Consult Customer Service for custom color and metric-tee colors.
6. Non-fire-rated only.
7. Cross-tee hole punch spacings also available for 20″ and 30″ modules.
8. Available in metric; add "ME" to Item No. Consult Customer Service for colors of metric tees.
9. DX cross tees available in additional sizes and lengths. Non-fire-rated applications may mix DX and DXL parts.
10. For moldings information, see Perimeter Interface selector.
11. Panels must be specified to be field-cut, field-revealed and to provide widest possible lay-on edge.
12. For DXL, channel moldings are also acceptable in some designs. Check UL Fire Resistance Directory for molding options.

DX®/DXL™ Concealed

Donn DX/DXL Concealed Suspension/
Radar Panels

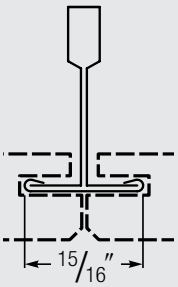
LEED Credits
Recycled Content: 25%

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

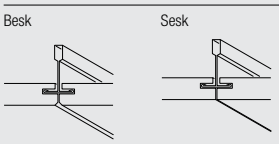
Features and Benefits
- Supporting grid is completely concealed, providing a monolithic, uninterrupted ceiling plane with up to 50% access to the plenum.
- Meets or exceeds all national code requirements, including seismic and fire-rated assemblies up to 3 hours. Design flexibility helps meet life safety codes.
- Hot-dipped galvanized steel body inhibits red rust.

Applications
- Interior general-use areas
- Fire-rated, interior general-use areas
- Retail stores

Profile



Edge Detail



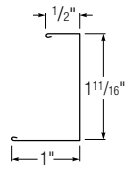
Call 888 874.2450 for samples

Flat White

System meets or exceeds load compliance specifications per ASTM C635

		ASTM Class	Length	Height	Item No.[4]	Class	Color[5]	Seismic Zones UBC	Seismic Zones IBC	Seismic Solutions Categories D, E, F Alternate Method	Rated Load[2,3] 4′ Hanger Spacing	5′ Hanger Spacing	6′ Hanger Spacing
15/16″ Tee System	**Main Tee**	Intermediate Duty	**12′**	**1.64″**	**DX/DXL24**		Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
		Heavy Duty	**12′**	**1-1/2″**	**DX/DXL26**		Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	16 lbs./LF	7.3 lbs./LF	4.9 lbs./LF
	Cross Tee 1-1/2″		**4′**	**1-1/2″**	**DX/DXL424**		Flat White	0-4	A-F	7/8″ Molding ACM7 Clip			
	Tee Spline 1″		**4′**	**1″**	**DT416**	Class A				7/8″ Molding ACM7 Clip			
					DE416	Class A				7/8″ Molding ACM7 Clip			

New Donn Seismic Solutions
– Meets or exceeds all national code requirements with 7/8″ wall molding.
– Fulfills requirements for IBC seismic design categories A-F.
– Certified with maximum sq. ft. weights, representing complete ceiling systems.
– Compliance with IBC seismic design categories D, E, and F with USG Intermediate Duty system without perimeter wires.

	Wall Angle	Length	Item No.	Color
Molding[5]		**10′**	**US28**	Flat White

Physical Data/ Footnotes

Product literature
Data sheet: AC3035

Material
Fire-rated, double-web hot-dipped galvanized steel body; steel cap finished with four-step protective coating.

Recycled content
25%. For details see the Sustainability selector.

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.

Limitations
Severe Environmental Requirements: For exposed grids in non-fire-rated, high-humidity applications, use all-aluminum AX™ or ZXLA™ painted HDG with aluminum cap suspension systems. For exterior appli-cations, suspension should be reviewed by a structural engineer.

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ASTM C635 Standard for Load Compliance
This system meets or exceeds load compliance specifi-cations per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or (L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Footnotes
1. Dependent on location; contact your USG representative.
2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
3. For detailing and module loading, please request AC273QRC.
4. Some products are available in metric. Call Customer Service for details.
5. For more information on moldings and complete section detail, see the Perimeter Interface selector.

DXLA™

10
Year Availability

Donn DXLA Suspension System/
Eclipse Firecode Formulation Panels with *ClimaPlus* Performance

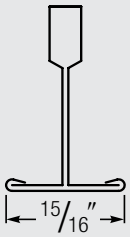
LEED Credits
Recycled Content: 25%

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

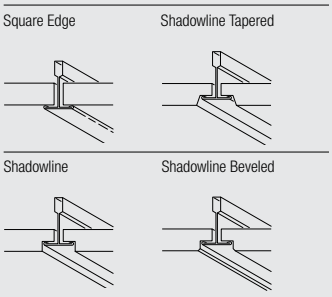
Features and Benefits
- 15/16″ exposed, fire-rated, system.
- Maximum economy and design simplicity with UL designs (up to 2 hours).
- Suitable for use in food processing areas and meets USDA/FSIS requirements.
- Cross-tee override ends resist twisting and give a professionally finished look.
- Patented Quick-Release™ cross tees.
- Custom color available.

Applications
- Fire-rated
- Food processing areas

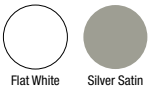
Profile



Edge Detail



Call 888 874.2450 for color samples

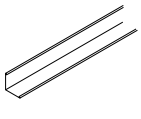


System meets or exceeds load compliance specifications per ASTM C635

		ASTM Class	Length	Height	Item No.[5]	Class	Color[6]	Seismic Zones UBC	Seismic Zones IBC	Seismic Solutions Categories D, E, F Alternate Method	Rated Load[2,3,4] 4′ Hanger Spacing	Rated Load[2,3,4] 5′ Hanger Spacing
15/16″ Tee System	**Main Tee**	Intermediate Duty	**12′**	**1.64″**	**DXLA24**		Flat White Silver Satin	0-4	A-F	7/8″ Molding ACM7 Clip	12 lbs./LF	6.1 lbs./LF
		Heavy Duty	**12′**	**1-1/2″**	**DXLA26**		Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	16 lbs./LF	7.3 lbs./LF
	Cross Tee 1″		**2′**	**1″**	**DXLA216**		Flat White Silver Satin	0-4	A-F	7/8″ Molding ACM7 Clip		
	Cross Tee 1-1/2″		**4′**	**1-1/2″**	**DXLA424**		Flat White Silver Satin	0-4	A-F	7/8″ Molding ACM7 Clip		

New Donn Seismic Solutions

– Meets or exceeds all national code requirements with 7/8″ wall molding.
– Fulfills requirements for IBC seismic design categories A-F.
– Certified with maximum sq. ft. weights, representing complete ceiling systems.
– Compliance with IBC seismic design categories D, E, and F with USG Intermediate Duty system without perimeter wires.

	Wall Angle	Length	Item No.	Color		Length	Item No.	Color[6]
Molding[7,8,9]		**10′**	**MC11A25**	Flat White		**12′**	M7Z	Flat White Silver Satin
	Non-Rated	**12′**	**M7A**	Flat White				

Physical Data/ Footnotes

Product literature
Data sheet: AC3036

Material
Fire-rated, double-web, hot-dipped galvanized steel body and aluminum cap.

Recycled content
25%. For details, see the Sustainability selector.

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.

Limitations
Severe Environmental Requirements: For panels in exposed grids in fire-rated and/or high-humidity applications, use ZXLA™ suspension systems. For exterior applications, suspension should be reviewed by a structural engineer.

ICC Evaluation Service, Inc., Report Compliance
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L.A. Research Report Compliance
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ASTM C635 Standard for Load Compliance
This system meets or exceeds load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Footnotes
1. Dependent on location; contact your USG representative.
2. Hanger wire spacing and locations must be per the UL design.
3. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
4. For detailing and module loading, request AC269QRC.
5. Some products are available in metric. Call Customer Service for details.
6. Custom color available.
7. Channel moldings also acceptable in some UL designs.
8. For more information on moldings, see Perimeter Interface selector.
9. Panels must be field-cut to size at the perimeter. For Shadowline detail, field-cut edge must be at least as wide as the factory cut.

DXSS™

DONN DXSS Suspension System/SHEETROCK Lay-In Ceiling Panels with *CLIMAPLUS* Performance

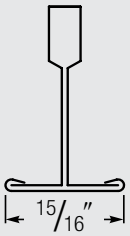
LEED Credits
Recycled Content: 25%

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

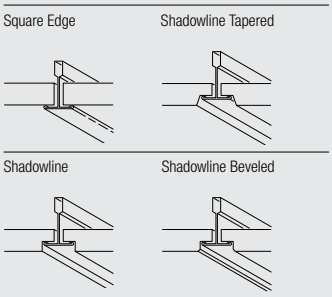
Features and Benefits
- 15/16" Type 316 stainless steel grid system.
- Resistant to direct and indirect contact with many corrosive agents. Superior to Type 304.
- Stainless steel QUICK-RELEASE™ clips on cross tees.
- Non-magnetic.
- Cross-tee override ends resist twisting and give a professionally finished appearance.
- Meets USDA/FSIS requirements.
- Cap material is protected with removable PVC coating, reducing post-construction cleaning.
- Lifetime limited warranty.

Applications
- Food processing areas
- Industrial applications
- Laboratories

Profile



Edge Detail



Call 888 874.2450 for samples

Stainless Steel

System meets or exceeds load compliance specifications per ASTM C635

		ASTM Class	Length	Height	Item No.	Class	Color	Minimum Load Carrying Capabilities—Main tee[2] 4′ Hanger Spacing
15/16″ Tee System	**Main Tee 1-1/2″**[3]	Light Duty	**12′**	**1-1/2″**	**DXSS24**	Class A	Stainless Steel	5.0 lbs./LF
	Cross Tee 1-1/2″		**2′**	**1-1/2″**	**DXSS224**	Class A	Stainless Steel	
			4′	**1-1/2″**	**DXSS424**	Class A	Stainless Steel	
	Wall Angle	**Length**	**Item No.**		**Color**			
Molding[4]		**12′**	**M7SS**		Natural			

Physical Data/ Footnotes

Product literature
Data sheet: AC3068

Material
Double-web-type 316 stainless steel body and cap. This cap material is protected by PVC, which should be removed after installation.

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices

Limitations
Conforms to ASTM C635 for severe environmental performance. Consult a chemist/metallurgist for specific applications and use of this product.

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ASTM C635 Standard for Load Compliance
This system meets or exceeds load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or (L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Footnotes
1. Dependent on location; contact your USG representative.
2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
3. Cross-tee hole-punch spacings available for 24″ and 48″ modules.
4. Where needed, perimeter panels are field-cut to fit.

DXW™

10
Year Availability

Donn DXW Suspension System/
Eclipse Panels with *ClimaPlus* Performance

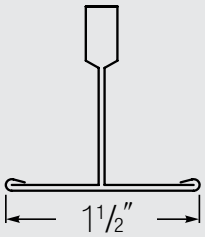
LEED Credits
Recycled Content: 25%

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

Features and Benefits
- 1-1/2″ exposed grid system. Design alternative for high-bay areas and large panel modules.
- Cross-tee override ends resist twisting and give a professionally finished look.
- Meets or exceeds all national code requirements, including seismic. Design flexibility helps meet life safety codes.
- Patented Quick-Release™ cross tees.
- Custom color available.

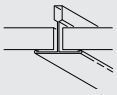
Applications
- Interior general-use areas
- High-bay areas
- Large-module ceilings

Profile



Edge Detail

Square Edge



Call 888 874.2450 for samples

Flat White

System meets or exceeds load compliance specifications per ASTM C635

		ASTM Class	Length	Height	Item No.	Class	Color[4]	Seismic Zones UBC	Seismic Zones IBC	Seismic Solutions Categories D, E, F Alternate Method	Rated Load[2,3] 4′ Hanger Spacing	5′ Hanger Spacing	6′ Hanger Spacing
1-1/2″ Tee System	**Main Tee**	Heavy Duty	**12′**	**1-1/2″**	**DXW26**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	16 lbs./LF	7.3 lbs./LF	4.9 lbs./LF
	Cross Tee 1-1/2″		**2′**	**1-1/2″**	**DXW224**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	65.0 lbs./LF		
			4′	**1-1/2″**	**DXW424**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	13.8 lbs./LF		

New Donn Seismic Solutions
– Meets or exceeds all national code requirements with 7/8″ wall molding.
– Fulfills requirements for IBC seismic design categories A-F.
– Certified with maximum sq. ft. weights, representing complete ceiling systems.
– Compliance with IBC seismic design categories D, E, and F with USG Intermediate Duty system without perimeter wires.

	Wall Angle	Length	Item No.	Color[4]	Wall Angle	Length	Item No.	Color[4]
Molding[5,6]	7/8" × 7/8"	**12′**	**M7**	Flat White				
	1" × 1 1/2"	**12′**	**M12**	Flat White	1" × 2"	**10′**	**M20**	Flat White

Physical Data/ Footnotes

Product literature
Data sheet: AC3037

Material
Double-web hot-dipped galvanized steel body; steel cap finished with four-step protective coating.

Recycled content
25%. For details, see the Sustainability selector.

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.

Limitations
Severe Environmental Requirements: For exposed grids in non-fire-rated, high-humidity applications, use aluminum or ZXLA™ suspension systems. For exterior applications, suspension should be reviewed by a structural engineer.

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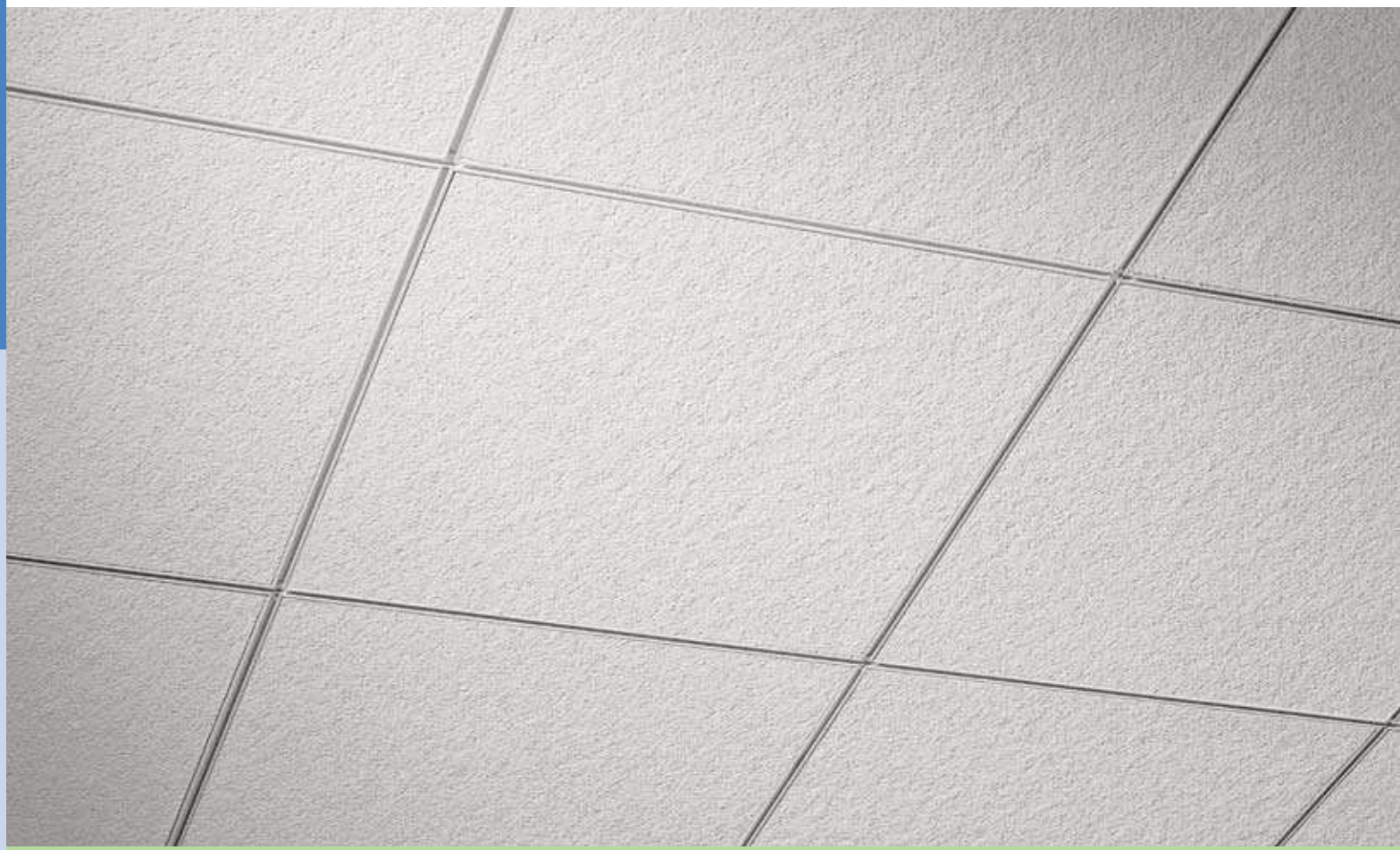
ASTM C635 Standard for Load Compliance
This system meets or exceeds load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or (L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Footnotes
1. Dependent on location; contact your USG representative.
2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
3. For detailing and module loading, request AC3002QRC.
4. Custom color available.
5. For more information on moldings, see Perimeter Interface selector.
6. Panels must be field-cut to size at the perimeter.

Fineline® DXF/DXLF

10
Year Availability



Donn Fineline DXF Suspension System/
Eclipse Panels with *ClimaPlus* Performance

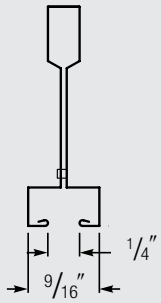
LEED Credits
Recycled Content: 25%

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

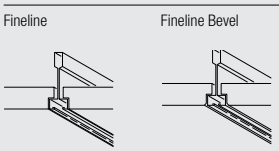
Features and Benefits
- Narrow-profile, slotted grid system with 1/4″ reveal provides streamlined appearance.
- Reveal accommodates partition attachments and pendant-mounted light fixtures.
- Mitered intersections offer a clean, tailored appearance.
- Meets or exceeds all national code requirements, including seismic and fire-rated assemblies up to 1 hour.
- Optional integrated air diffuser.
- Accepts metal ceiling panels for ceiling-area accents without changing grid system.
- Custom color available.

Applications
- All interior general use areas
- Fire-rated, interior general-use areas

Profile



Edge Detail



Call 888 874.2450 for color samples

Flat White

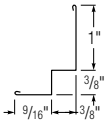
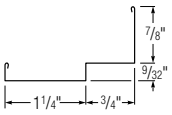
Silver Satin 002

System meets or exceeds load compliance specifications per ASTM C635

		ASTM Class	Length	Height	Item No.[5]	Class	Color[6]	Seismic Zones UBC	Seismic Zones IBC	Seismic Solutions Categories D, E, F Alternate Method	Rated Load[2,3,4] 4′ Hanger Spacing	5′ Hanger Spacing	6′ Hanger Spacing
9/16″ Tee System	**Main Tee[7,8]**	Intermediate Duty	**10′**	**1-25/32″**	**DXF2924-10**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	12 lbs./LF	6.6 lbs./LF	3.6 lbs./LF
					DXF2930[9]		Flat White Silver Satin			7/8″ Molding ACM7 Clip			
		Intermediate Duty	**12′**	**1-25/32″**	**DXF2924**	Class A		0-4	A-F	7/8″ Molding ACM7 Clip	12 lbs./LF	6.6 lbs./LF	3.6 lbs./LF
					DXF2948[10]					7/8″ Molding ACM7 Clip			
					DXLF2924		Flat White	0-4	A-F	7/8″ Molding ACM7 Clip			
		Heavy Duty	**12′**	**1-25/32″**	**DXFH2924**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	16 lbs./LF	8.3 lbs./LF	4.9 lbs./LF
	Cross Tee[11]		**2′**	**1-25/32″**	**DXF229**	Class A	Flat White Silver Satin	0-4	A-F	7/8″ Molding ACM7 Clip			
					DXLF229		Flat White	0-4	A-F	7/8″ Molding ACM7 Clip			
			4′	**1-25/32″**	**DXF429**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip			
			4′	**1-25/32″**	**DXF429N[12]**	Class A	Flat White Silver Satin	0-4	A-F	7/8″ Molding ACM7 Clip			
					DXF429S[13]					7/8″ Molding ACM7 Clip			
					DXLF429N[12]		Flat White	0-4	A-F	7/8″ Molding ACM7 Clip			
			5′	**1-25/32″**	**DXF529N[12]**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip			

New Donn Seismic Solutions
- Meets or exceeds all national code requirements with 7/8″ wall molding.
- Fulfills requirements for IBC seismic design categories A-F.
- Certified with maximum sq. ft. weights, representing complete ceiling systems.
- Compliance with IBC seismic design categories D, E, and F with USG Intermediate Duty system without perimeter wires.

	Wall Angle	Length	Item No.	Color
Molding[14,15]		**12′**	**M7**	Flat White
		12′	**M9**	Flat White Silver Satin

	Wall Angle	Length	Item No.	Color
Molding	Shadowline[14] 	**12′**	**MS174**	Flat White Silver Satin
	Shadowline 	**108**	**MS274** 2″ shelf for seismic	Flat White

Physical Data/ Footnotes

Product literature
Data sheet: AC3034

Material
Double-web hot-dipped galvanized steel tee.

Recycled content
25%. For details, see the Sustainability selector.

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.

Limitations
Severe Environmental Requirements: For exposed grids in non-fire-rated, high-humidity applications, use AX™ or ZXLA™ painted suspension systems. For exterior applications, suspension should be reviewed by a structural engineer.

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ASTM C635 Standard for Load Compliance
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Air diffusers
Request AC272-290.

Footnotes
1. Dependent on location; contact your USG representative.
2. Hanger wire spacing and locations must be per the UL design.
3. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
4. For detailing and module loading request AC3003QRC.
5. Some products are available in metric. Call Customer Service for details.
6. Custom color available.
7. Standard main tee is notched 24″ o.c. but has cross-tee holes 12″ o.c.
8. Cross-tee hole spacings available for 24″, 30″, and 48″ modules except DXLF.
9. Notched 30″ o.c.
10. Notched 48″ o.c.
11. Cross tees also available in 1′ and 30″ lengths.
12. N = Notch at midpoint.
13. Midpoint notch on one side only to accommodate light fixtures.
14. For more information about moldings, see Perimeter Interface selector.
15. Panels must be field-cut to size at the perimeter.

Fineline® 1/8 DXFF

10
Year Availability

Donn Fineline DXF Suspension System/
Eclipse Panels with *ClimaPlus* Performance

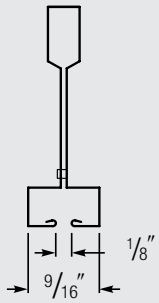
LEED Credits
Recycled Content: 25%

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

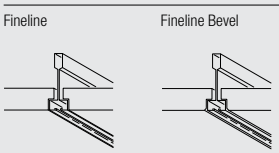
Features and Benefits
- Narrow-profile, slotted grid system with 1/8″ reveal provides streamlined appearance.
- Reveal accommodates partition attachments and pendant-mounted light fixtures.
- Mitered intersections offer a clean, tailored appearance.
- Meets or exceeds all national code requirements, including seismic and fire-rated assemblies up to 1 hour.
- Optional integrated air diffuser.
- Accepts metal ceiling panels for ceiling-area accents without changing grid system.
- Custom color available.

Applications
- All interior general use areas
- Fire-rated, interior general use areas

Profile



Edge Detail



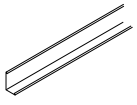
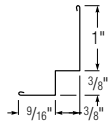
Call 888 874.2450 for samples

Flat White

System meets or exceeds load compliance specifications per ASTM C635

		ASTM Class	Length	Height	Item No.	Class	Color[4]	Seismic Zones UBC	Seismic Zones IBC	Seismic Solutions Categories D, E, F Alternate Method	Rated Load[2,3] 4′ Hanger Spacing	5′ Hanger Spacing	6′ Hanger Spacing
9-16″ Tee System	**Main Tee[5]**	Intermediate Duty	**10′**	**1-25/32″**	**DXFF2930[6]**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	12 lbs./LF	6.5 lbs./LF	3.6 lbs./LF
			12′	**1-25/32″**	**DXFF2924[7]** **DXFF2948**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	12 lbs./LF	6.5 lbs./LF	3.6 lbs./LF
		Heavy Duty	**12′**	**1-25/32″**	**DXFFH2924**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	16 lbs./LF	8.3 lbs./LF	4.9 lbs./LF
	Cross Tee[8]		**2′**	**1-25/32″**	**DXFF229**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip			
			4′	**1-25/32″**	**DXFF429[9]** **DXFF429N** **DXFF429S[10]**	Class A	Flat White	0-4	A-F	7/8″ Molding ACM7 Clip			

New Donn Seismic Solutions
– Meets or exceeds all national code requirements with 7/8″ wall molding.
– Fulfills requirements for IBC seismic design categories A-F.
– Certified with maximum sq. ft. weights, representing complete ceiling systems.
– Compliance with IBC seismic design categories D, E, and F with USG Intermediate Duty system without perimeter wires.

	Wall Angle	Length	Item No.	Color[4]
Molding[11,12]		**12′**	**M9**	Flat White
	Shadowline[10] 	**12′**	**MS174**	Flat White

Physical Data/ Footnotes

Product literature
Data sheet: AC3035

Material
Double-web hot-dipped galvanized steel tee.

Recycled content
25%. For details, see the Sustainability selector.

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.

Limitations
Severe Environmental Requirements: For exposed grids in non-fire-rated, high-humidity applications, use AX™ or ZXLA™ suspension systems. For exterior applications, suspension should be reviewed by a structural engineer.

ICC Evaluation Service, Inc., Report Compliance
Suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in ICC-ES Evaluation Reports. Evaluation Reports are subject to reexamination, revision and possible cancellation. Please refer to USGDesignStudio.com or 800 USG.4YOU for current reports.

L.A. Research Report Compliance
Donn brand suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095.

The City of New York BSA and MEA Report Compliance
Donn suspension systems have been approved by listing in one or more of the following City of New York Board of Standards and Appeals, and Department of Building, Material and Equipment Acceptance reports: BSA 618-60-SM, BSA 184-77-SM, BSA 796-81-SM, MEA 366-93-M, MEA 133-95-M, MEA 312-99-M, MEA 123-00-M.

ASTM C635 Standard for Load Compliance
This system meets or exceeds load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or (L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Air diffusers
Request AC272-290.

Footnotes
1. Dependent on location; contact your USG representative.
2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
3. For detailing and module loading request AC3011.
4. Custom color available.
5. Cross-tee notches available in 24″, 30″, and 48″ modules. Standard is 24″ o.c.
6. Notched 30″ o.c.
7. Notched 48″ o.c.
8. Cross tees also available in 30″, 1′, and 5′ lengths.
9. N = Notch at midpoint.
10. Midpoint notch on one side only to accommodate light fixtures.
11. For more information on moldings, see Perimeter Interface selector.
12. Panels must be field-cut to size at the perimeter.

ZXLA™

USG

10
Year Availability

DONN ZXLA Suspension System/
ECLIPSE Panels with *CLIMAPLUS* Performance

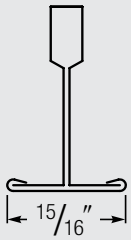
LEED Credits
Recycled Content: 25%

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

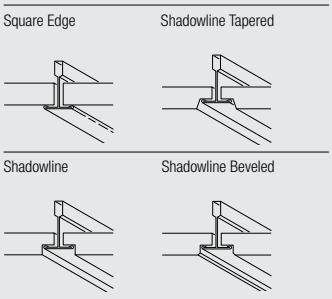
Features and Benefits
- 15/16″ exposed, hot-dipped galvanized grid system with aluminum cap, ideal for use in extreme environments.
- Polyester paint finish and stainless steel clip provide unequaled corrosion protection.
- Meets or exceeds all national code requirements, including seismic and fire-rated assemblies up to 2 hours. Design flexibility helps meet life safety codes.
- Aluminum-capped grid system, suitable for use in food processing areas, meets USDA/FSIS requirements.
- Patented QUICK-RELEASE™ cross tees.
- Custom color available.

Applications
- Exterior soffits
- Fire-rated service environments
- Industrial applications

Profile



Edge Detail



Call 888 874.2450 for samples

Flat White

System meets or exceeds load compliance specifications per ASTM C635

		ASTM Class	Length	Height	Item No.	Class	Color[5]	Seismic Zones UBC	Seismic Zones IBC	Seismic Solutions Categories D, E, F Alternate Method	Rated Load[2,3,4] 4′ Hanger Spacing	5′ Hanger Spacing	6′ Hanger Spacing
15/16″ Tee System	**Main Tee**	Intermediate Duty[3]	**12′**	**1.64″**	**ZXLA24**		Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
		Heavy Duty	**12′**	**1-1/2″**	**ZXLA26**		Flat White	0-4	A-F	7/8″ Molding ACM7 Clip	16 lbs./LF	7.3 lbs./LF	4.9 lbs./LF
	Cross Tee 1-1/2″ (38 mm)		**2′**	**1-1/2″**	**ZXLA224**		Flat White	0-4	A-F	7/8″ Molding ACM7 Clip			
			4′	**1-1/2″**	**ZXLA424**		Flat White	0-4	A-F	7/8″ Molding ACM7 Clip			

New Donn Seismic Solutions
– Meets or exceeds all national code requirements with 7/8″ wall molding.
– Fulfills requirements for IBC seismic design categories A-F.
– Certified with maximum sq. ft. weights, representing complete ceiling systems.
– Compliance with IBC seismic design categories D, E, and F with USG Intermediate Duty system without perimeter wires.

	Wall Angle	Length	Item No.	Color[5]
Molding[6,7]		**12′**	**M7Z**	Flat White

Physical Data/ Footnotes

Product literature
Data sheet: AC3029

Material
Double-web, hot-dipped galvanized, painted steel tee with painted aluminum cap.

Recycled content
25%. For details, see the Sustainability selector.

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.

Limitations
Severe Environmental Requirements: For exterior applications, suspension should be reviewed by a structural engineer.

ICC Evaluation Service, Inc., Report Compliance
Suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in ICC-ES Evaluation Reports. Evaluation Reports are subject to reexamination, revision and possible cancellation. Please refer to USGDesignStudio.com or 800 USG.4YOU for current reports.

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ASTM C635 Standard for Load Compliance
This system meets or exceeds load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or (L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Footnotes
1. Dependent on location; contact your USG representative.
2. Hanger wire spacing and locations must be per the UL design.
3. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
4. For detailing and module loading request AC274QRC.
5. Custom color available.
6. For more information on moldings, see Perimeter Interface selector.
7. Panels must be specified to be field-cut to size and field-revealed to provide as wide a lay-on edge as possible.

USG™ Drywall Suspension System – Flat Ceilings

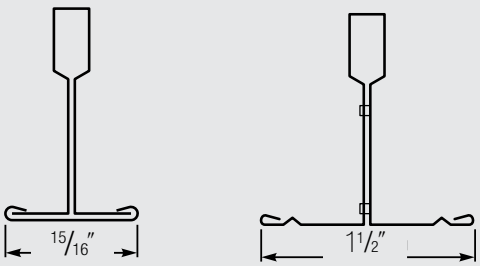
USG Drywall Suspension System/
SHEETROCK Gypsum Panels

LEED Credits
Recycled Content: 25%

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

Features and Benefits
- Pre-engineered, hot-dipped galvanized system eliminates labor-intensive superstructure and allows easy transitions.
- More than 60 UL fire-resistive designs. Assemblies available to meet STC and IIC requirements.
- Accepts Type F and Type G light fixtures.
- Assembly selector with downloadable revit files available at www.usgdesignstudio.com.

Applications
- Exterior soffits
- Fire-rated, interior general use areas
- All interior general use areas
- Corridors



Profiles

System meets or exceeds load compliance specifications per ASTM C635

			ASTM Class	Length	Height	Item No.	Class	Seismic Zones UBC	Seismic Zones IBC	Rated Load[2,3] Hanger Spacing – lbs./LF 24" L/240	24" L/360	36" L/240	36" L/360	48" L/240	48" L/360
System Components	**Straight Main Tees**	**DGL**	Heavy Duty	12'	1-1/2"	**DGL26**		0-4	A-F	192	128	57	38	24	16
		DGLW	Heavy Duty	12'	1.617"	**DGLW26[4]**		0-4	A-F	192	128	57	38	24	16
	Wall-to-Wall System Straight Tee**	**DGW**	Heavy Duty	6' to 14'	1.617"	**DGLW26s**	Class A	0-4	A-F	239	159	71	47	30	20

										Span L/360 lbs./LF Span	Value
	Cross Tees	**DGL**	—	2'	1-1/2"	**DGL224**		0-4	A-F	24"	81.3
			—	4'	1-1/2"	**DGL424**		0-4	A-F	48"	13
		DGLW	—	2'	1-1/2"	**DGLW224**		0-4	A-F	24"	73.2
			—	26"	1-1/2"	**DGLW2624[4]**		0-4	A-F	26"	57
			—	4'	1-1/2"	**DGLW424**		0-4	A-F	48"	12.1
			—	50"	1-1/2"	**DGLW50[4]**		0-4	A-F	50"	11
		DGW	—	72"	1-1/2"	**DGW624**	Class A	0-4	A-F	72"	4.45
	Cross Channel			4'	7/8"	**DGCL4**		0-4	A-F	48"	6.9
	Moldings			12'	—	**DGWM24**	—	0-4	A-F	—	—
				12'	—	**DGCM27**	—	0-4	A-F	—	—

Accessories

DGSC180 Splice Clip*	DGTC90 Transition Clip	DGC4, DGC6, DGC8 CompÀsso™ Drywall Clip	DGWC Wall Attachment Clip	DGSP180 Splice Plate

* See AC3152 for alternative splice details

** See AC3230 for expanded wall-to-wall data

Physical Data/ Footnotes

Product Literature
System Brochure: AC3152
Data Sheet: AC3117
Data Sheet Wall-to-Wall: AC3230

Finishes
Hot dipped galvanized.

Material
Double-web tee, hot-dipped galvanized steel.

Recycled content
25%

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices

IC80 Evaluation Report Compliance
Suspension systems manufactured by USG Interiors, Inc. have been reviewed and are approved by listing ICC-ES Evaluation Reports. Evaluation Reports are subject to reexamination, revision and possible cancellation. Please refer to USG.com, usgdesignstudio.com or 800 USG.4YOU for current reports

Footnotes
1. Dependent on location, contact your USG representative.
2. Products tested and in compliance with ASTM C635 L/360 deflection limits
3. Load data shown based on L/240 deflection limits
4. for detailing and module loading, request AC3152 or visit USGDesignStudio.com
5. DGLW26 main tees and DGLW2624 and DGLW50 cross tees feature special punching and cross-tee lengths to accommodate Type F fixtures.

USG™ Drywall Suspension System – Wall-to-Wall

USG Wall-to-Wall Drywall Suspension System/
SHEETROCK Gypsum Panels

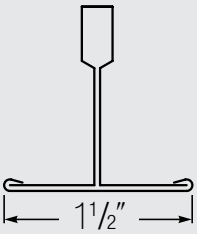
LEED Credits
Recycled Content: 25%

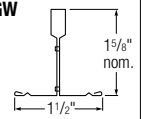
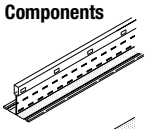
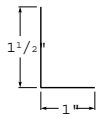
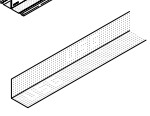
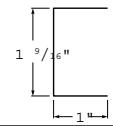
MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

Features and Benefits
- Simplifies design and construction for corridors and small rooms.
- Eliminates hanger wires and cross tees for unsupported spans up to 8′ with 1/2″ drywall and 7′ -6″ with 5/8″ drywall.
- Lowest installed cost system for corridors and small rooms.
- Pre-engineered components allow easy transition between ceiling types and elevations.
- Hot dipped galvanized system suitable for interior and exterior applications.
- Standard and custom lengths available.
- Manufactured in accordance with ASTM C645.

Applications
- Condominiums & Apartments
- Healthcare
- Education
- Hotels
- Dormitories
- Office

Profile



			Length	Height	Face Width	Item No.	Class	Load Test Data[2] Simple Span L/240 Uniform Load (lbs./LF) 4′	5′	6′	7′	7′-6″	8′
System Components	**Straight Tee**	**DGW** 	6′, 8′, 10′, 12′, 14′, Custom	1.617″	1-1/2″	**DGW26s**	Class A	29.84	15.28	8.84	5.57	4.53	3.73
	**Moldings[3]**		12′	1-1/2″	1″	**DGWM24**	—	—					
			12′	1-9/16″	1″	**DGCM25**	—	—					

Accessory

DGSC180 Splice Clip

* See AC3152 for additional main tee splice options.

Membrane Loads

Span	O.C. Spacing (in.)	Maximum Load (lbs./SF)
2′	16	179.04
	24	119.36
4′	16	22.38
	24	14.92
5′	16	11.46
	24	7.64
6′	16	6.63
	24	4.42
7′	16	4.18
	24	2.78
7′-6″	16	3.40
	24	2.26
8′	16	2.80
	24	1.86
	24	*14.92
10′	16	*11.46
	24	*7.64
12′	16	*6.63
	24	*4.42
***16′	16	*2.8
	24	*1.86
	24	**4.42

Notes:
– *Vertical support at mid-span
– **Two vertical supports at 1/3 point
– ***Spans greater than 14′ require Main-tee splice, refer to the AC3152 for splice details

Vertical Support

Tee Spacing	Drywall	Span	Support Requirement
16″o.c.	1/2″	up to 8′	None
		***8′ 1″–16′	Mid-span
		***16′ 1″–24′	Two supports at 1/3 points
16″ o.c.	5/8″	up to 7′–6″	None
		***7′–7″ to 15′	Mid-span
		***15′–1″ to 22′–6″	Two supports at 1/3 points
24″ o.c.	5/8″	up to 6′–6″	None
		6′–7″ to 13′	Mid-span
		***13′–1″ to 19′–6″	Two supports at 1/3 points

Notes:

– ***Spans greater than 14′ require Main-tee splice, use DGSC180 splice clip or alternative splicing options described in system brochure – AC3152

Physical Data/ Footnotes

Product literature
System brochure: AC3152
Data sheet: AC3230

Finishes
Galvanized.

Material
Double-web tee, hot-dipped, galvanized steel.

Recycled content
25%.

Installation
Must be installed in compliance with ASTM C754 and standard industry practices.

Footnotes
1. Dependent on location; contact your USG representative.
2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM deflection limit on L/240.
3. Attachment to wall structure is critical.

USG™ Drywall Suspension System – Wall-to-Wall

USG Wall-to-Wall Drywall Suspension System/ SHEETROCK Gypsum Panels

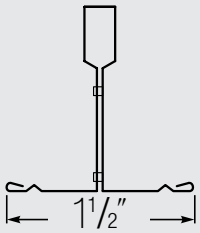
LEED Credits
Recycled Content: 25%

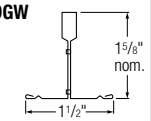
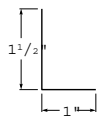
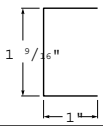
MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

Features and Benefits
- Simplifies design and installation of flat drywall ceilings for corridors and small rooms.
- Pre-engineered components allow easy transitions between ceiling elevations and types.
- Hot-dipped galvanized system suitable for interior and exterior applications.
- Eliminates hanger wires and cross tees, reducing material and labor costs.
- Standard and custom lengths available.
- Manufactured and galvanized in accordance with ASTM C645.

Applications
- Condominiums
- Apartments
- Hotels
- Motels
- Dormitories

Profile



			Length	Height	Face Width	Item No.	Class	Load Test Data[2] Simple Span L/240 Uniform Load (lbs./LF) 4′	5′	6′
System Components	**Straight Tee** **DGW**		6′, 8′, 10′, 12′, 14′, Custom	1.617″	1-1/2″	**DGW26s**	Class A	24.0	12.3	7.1
	Moldings[3]		12′	1-1/2″	1″	**DGWM24**	—	—		
			12′	1-9/16″	1″	**DGCM25**	—	—		

Accessory

DGSC180 Splice Clip

Maximum Loads

Span	Tee Length	O.C. Spacing (in.)	Maximum Load (lbs./SF)
4′	8′	16	18.0
		24	12.0
5′	10′	16	9.2
		24	6.1
6′	12′	16	5.3
		24	3.6
7′	14′	16	3.4
			26.9[4]
		24	17.9[4]
8′	8′	16	18.0[4]
		24	12.0[4]
10′	10′	16	9.2[4]
		24	6.1[4]
12′	12′	16	5.3[4]
		24	3.6[4]
14′	14′	16	3.4[4]
			11.3[5]
		24	7.5[5]

Vertical Support

Tee Spacing	Drywall	Span	Support Requirement
16′ or 24′ o.c.	5/8″	up to 6′	None
		6′ 1″–12′	Mid-span
		12′ 1″–14′	Two supports at 1/3 points (max. 14′ span)
16′ o.c.	1/2″	up to 7′	None
		7′ 1″–14′	Mid-span

Physical Data/ Footnotes

Product literature
System brochure: AC3152
Data sheet: AC3230

Finishes
Galvanized.

Material
Double-web tee, hot-dipped, galvanized steel.

Recycled content
25%.

Installation
Must be installed in compliance with ASTM C754 and standard industry practices.

Footnotes
1. Dependent on location; contact your USG representative.
2. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM deflection limit on L/240.
3. Attachment to wall structure is critical.
4. Mid-span support.
5. Two vertical supports at 1/3 points.

M7 Overlapping Wall Angle

10
Year Availability

DONN M7 Overlapping Wall Angle

LEED Credits
Recycled Content: 25%

MR				EQ		
Waste Reduction	Recycled Content	Regional Materials[1]	Rapidly Renewable Materials	Low-Emitting Materials	Daylight and Views	Acoustical Performance
●	●	●				

Features and Benefits
– Patented overlap detail provides an "extra hand" for easier, more accurate installation.
– Ensures that trim faces are level.
– Eliminates an unsightly gap at butt joints.
– Installs faster than standard perimeter trim.

Applications
– All interior general use

Call 888 874.2450 for color samples

White

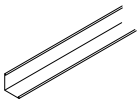
Standard Colors

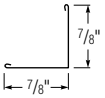
Parchment 103 | Manila 246 | Beige 142 | Straw 143 | Sandstone 090 | Taupe 107 | Charcoal 534 | Flat Black 205

Advantage Colors

Silvertone 052 | Breeze 2659 | Blue Grey 564 | Azure 2660 | Slate 568 | Spruce 567 | Tuscany 2663 | Sorbet 2658 | Squash 2662 | Safari 2662 | Redwood 566 | Sienna 565 | Halo 206 | Mist 053 | Nectar 546 | Quartz 082

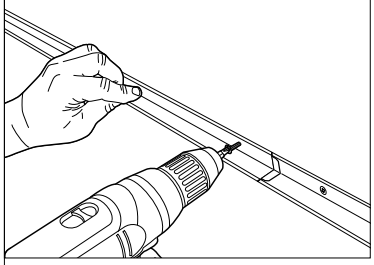
		Length	Item No.	Color
Molding[2]	**Wall Angle**[3]	12′	**M7**	Flat White Standard Advantage





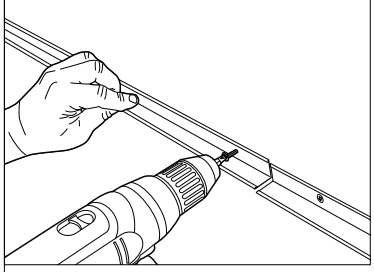
Performance Comparison

DONN M7 Overlapping Wall Angle



Overlap detail sits on adjacent trim, providing extra support for quicker, easier installation. The overlap ensures that trim faces are level, and it eliminates the unsightly gap created by traditional butt joints.

Traditional Wall Angle



With no support between lengths of trim, traditional wall angle is more difficult to install. Butt-cut wall angle is also subject to misalignment of trim faces and gaps at joints.

Physical Data/ Footnotes

Product literature
Sell sheet: AC3232

Material
Hot-dipped galvanized steel body.

Recycled content
25%. For details, see the Sustainability selector.

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.

ICC Evaluation Service, Inc., Report Compliance
Suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in ICC-ES Evaluation Reports. Evaluation Reports are subject to reexamination, revision and possible cancellation. Please refer to USGDesignStudio.com or 800 USG.4YOU for current reports.

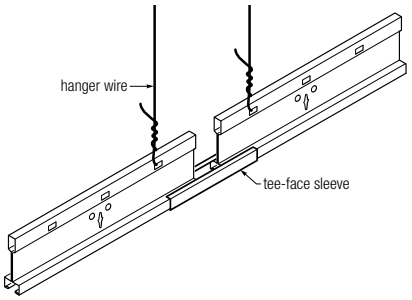
L.A. Research Report Compliance
DONN brand suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095.

Footnotes
1. Dependent on location; contact your USG representative.
2. For more information about moldings, see the Perimeter Interface selector.
3. Panels must be field-cut to size and field-revealed, where necessary, at the perimeter.

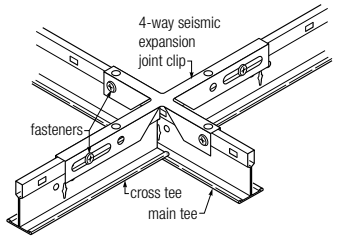
Seismic Accessories

Since 1957 DONN suspension systems have set the standard worldwide for the ceiling suspension industry. DONN systems are readily available in all markets, and they install faster and maintain modularity (squareness) better than any other system. The following pages present seismic accessory items available from USG, which are engineered and tested to help you design and install code-compliant ceilings with minimum effort and complete peace of mind.

Tee-face sleeves



Seismic expansion clip



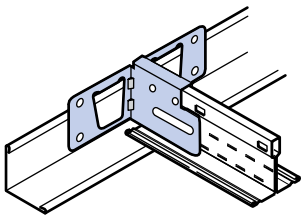
Seismic Accessories	Catalog Number	Description
	ACM7	Seismic Attachment Clip-to-Wall Angle
	DH4	4-Way Seismic Expansion Joint Clip
	TFS-1	Tee-Face Sleeve (3″ long) for 15/16″ DX/DXL Systems
	TFS-2	Tee-Face Sleeve (3″ long) for 9/16″ CENTRICITEE DXT Systems
	TFS-3	Tee-Face Sleeve (3″ long) for FINELINE DXF Systems with 1/4″ Reveal
	TFS-4	Tee-Face Sleeve (3″ long) for FINELINE 1/8 DXFF Systems with 1/8″ Reveal

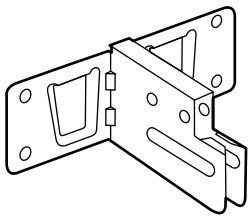
Donn ACM7 Seismic Clip

7/8″ Molding

The Donn ACM7 seismic clip is designed to provide a more robust hold than traditional L-shaped seismic clips by other manufacturers. The ACM7 clip features a saddle that fits securely over the tee bulb and fastens to the tee web. The clip has two tow wings that connect to the wall molding on each side of the tee with screws and friction-fit tabs. Either wing can be snipped off to fit corners or tight spaces. And, the clip adjusts easily to accommodate tees that intersect the wall at an angle other than 90 degrees. The ACM7 clip sustained tremendous forces in tension and compression testing, far greater than would be experienced in a seismic event.

ACM7 Seismic Clip



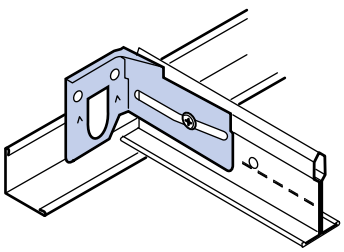


ACM7 Seismic Clip Performance

Test	Failure Criteria	Result
Tension Test	Tee fallout/ separation from clip.	> 500.45 load (lbs.). Test stopped at this load, with clip still attached to tee; failure load will exceed this level.
Compression Test	Tee fallout/ separation from clip.	> 324.75 load (lbs.). Test stopped at this load, with clip still attached to tee, maintaining 3/4″ clearance from wall; failure load will exceed this level.

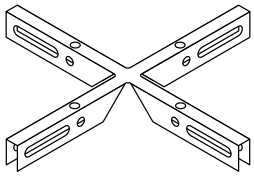
Traditional L-shaped clips attach to only one side of the tee web and do not fit over the tee bulb. And, they attach to the molding with only a friction fit, not fasteners, which are required in IBC seismic design categories D, E, and F. With so few contact points and no fasteners on the molding, tees may shift during installation, causing misalignments that can prolong the inspection process, delay approvals and risk system failure in a seismic event.

Traditional L-Clip (By Others)



Suspension Systems

Description

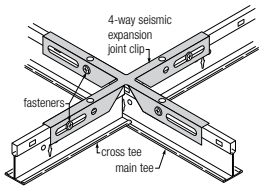


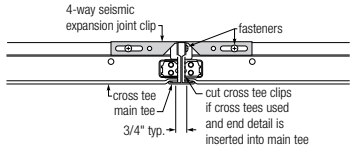
The DONN® brand DH4 seismic expansion joint clip is designed to provide the most robust hold in the most stringent seismic design categories.

Construction

4-Way Seismic Expansion Joint Clip

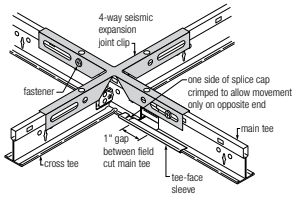
A one-piece, multidirectional fastener with a slot that secures the tee while allowing expansion-joint movement. This clip sits on top of the bulb, avoiding interference with light fixtures and ceiling panels.

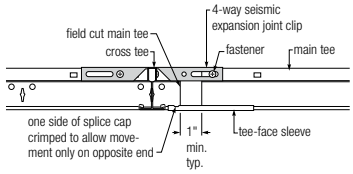




For additional clearance 1½" DXW may be used.

4-Way Seismic Expansion Joint Clip Alt.





Features & Benefits

- Meets or exceeds all national code requirements.
- Fulfills requirements for IBC Seismic Design Categories A, B, C, D, E and F.
- Provides evidence of compliance (and greatly exceeds) ICC Evaluation Service, Inc. (ICC-ES) AC156 and AC368 requirements.
- Clip placement is over the bulb of the tee and does not interfere with light fixtures.
- Fastener holes and expansion slots enable fail-safe installation.
- Nondirectional and can be used on either main tees or cross tees.
- No special fasteners are required.
- Maintains squareness and strength of suspension system.
- One-piece, solid construction.
- Laboratory certified to greatly exceed all structural and seismic requirements including tension, compression and tee fallout.
- Offers an aesthetically attractive option to traditional control joints. Maintains clean, uninterrupted look.
- Can be used with both heavy-duty and intermediate-duty systems in IBC Seismic Design Categories A, B, C, D, E and F.
- Lifetime limited warranty.

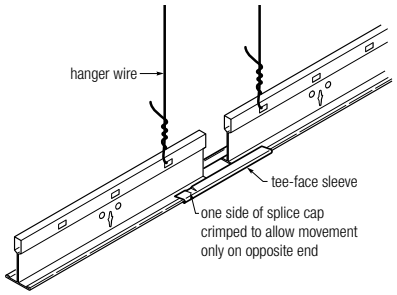
Applications

- All interior general use areas.
- With intermediate and heavy-duty DONN suspension systems, AX, DX®/DXL™, FINELINE® (DXF), FINELINE® 1/8 (DXFF), CENTRICITEE™ (DXT), CE (Controlled Environment), DXSS, DXW, DXLA™ and ZXLA™ (Environmental). DONN ACM7 seismic clip solutions include the code-compliant heavy-duty and intermediate-duty main tee required for Seismic Design Categories A, B, C, D, E and F.

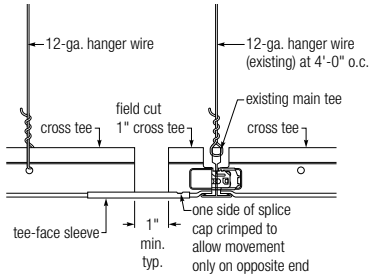
Seismic Separation Joints

When a seismic separation joint is required, USG offers several options that satisfy requirements for installations in IBC seismic design categories A, B, C, D, E, and F. USG conducted full-scale testing and evaluation to qualify the performance of these systems. Practical, easy to install, and designed for minimal visibility, DONN seismic separation joints represent the best and greatest range of options to satisfy the stringent requirements for all seismic installations. For more information, please refer to certification of performance AC3235.

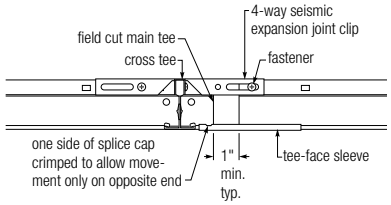
Tee-Face (Main Tee or Cross Tee) Sleeve
Available for DX/DXL, DXT, and DXF/DXFF.



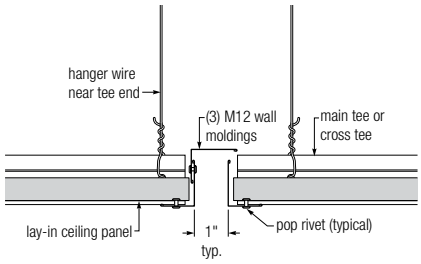
Tee-Face (Cross Tee) Sleeve



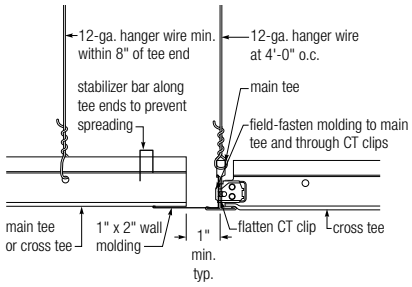
4-Way Seismic Expansion Joint Clip



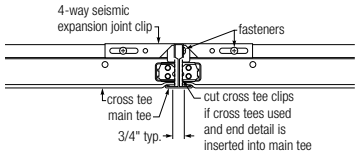
Expansion Joint – M12 Molding



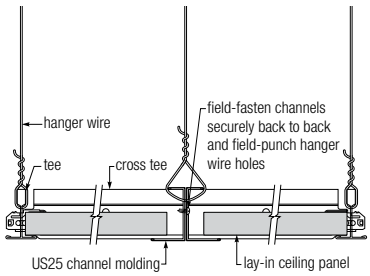
Expansion Joint – M20 Molding



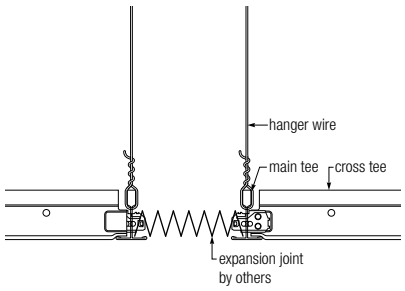
4-Way Seismic Expansion Joint Clip



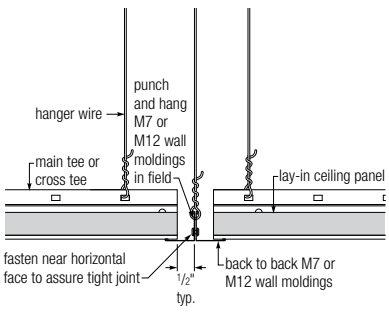
Expansion Joint – US28 Molding



Expansion Joint – Accordion-Style

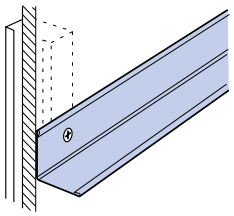
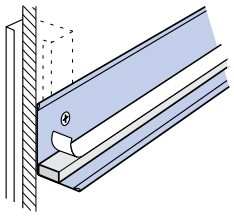
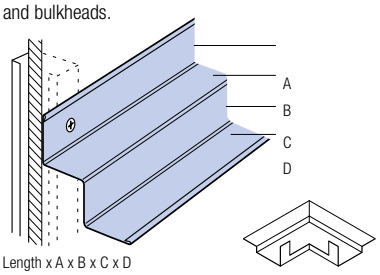


Expansion Joint – M7 Molding



Suspension Systems Accessories

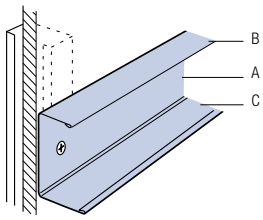
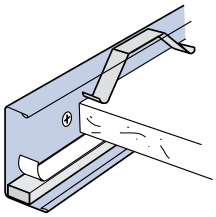
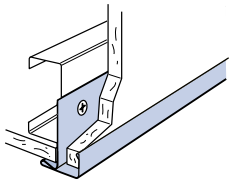
1. M7 and M9 available in color. For colors other than Flat White and Flat Black, packaging is 240 LF per carton.
2. MS154 and MS174 available in color. Packaging remains 300 LF per carton. With colors, only the exposed horizontal leg is painted the special color.

Moldings	Angle Molding	Angle Molding w/Gasket M12CE	Shadow Molding
	Use for standard ceiling perimeters.	Use in clean room applications with DONN® brand CE suspension system.	Useful for creating reveals at ceiling perimeters. Also helps to hide imperfections in drywall partitions and bulkheads.
			 Length x A x B x C x D

	Catalog Number	Description	Packaging/Ctn.		
			LF	Pcs.	Wt. (lbs.)
Angle Molding	M7[1]	12′ x 7/8″ x 7/8″ Wall Molding	480	40	63
	M7A	12′ x 7/8″ x 7/8″ Aluminum Wall Molding	480	40	26
	M7-10	10′ x 7/8″ x 7/8″ Wall Molding	400	40	26
	M7SS	12′ x 7/8″ x 7/8″ Stainless Steel Wall Molding	240	20	31
	M7Z	12′ x 7/8″ x 7/8″ Hot-Dipped Galvanized Steel Wall Molding	480	40	58
	M9[1]	12′ x 9/16″ x 15/16″ Wall Molding	480	40	55
	M9-10	10′ x 9/16″ x 15/16″ Wall Molding	400	40	23
	M12	10′ x 1″ x 1 1/2″ Wall Molding	250	25	63
	MC11A25	10′ x 1″ x 1″ Aluminum Cap Wall Molding	250	25	39
	M12CE	12′ x 1″ x 1 1/2″ Wall Molding w/ Gaskets, Flat White	240	20	59
	M20	10′ x 1″ x 2″ Wall Molding	250	25	55
	M20HD	10′ x 1″ x 2″ Wall Molding (Heavy-Duty)	250	25	95
	M20SM	10′ x 2″ x 2″ Wall Molding (Seismic Molding)	250	25	80
Shadow Molding	MS124	12′ x 15/16″ x 1/4″ x 5/16″ x 15/16″ Shadow Molding	300	25	46
	MS134	12′ x 9/16″ x 1/4″ x 5/16″ x 3/4″ Shadow Molding	300	25	37
	MS144	12′ x 3/4″ x 3/8″ x 1/2″ x 3/4″ Shadow Molding	300	25	48
	MS154[2]	12′ x 7/8″ x 3/4″ x 3/4″ x 7/8″ Shadow Molding	300	25	67
	MS164	12′ x 3/4″ x 3/4″ x 3/4″ x 3/4″ Shadow Molding	300	25	62
	MS174[2]	12′ x 1″ x 3/8″ x 3/8″ x 9/16″ Shadow Molding	300	25	43
	MS274	10′ x 7/8″ x 3/4″ x 9/32″ x 1-1/4″ Seismic Shadow Molding	200	20	54

Inside and outside corner moldings available. See page 246.

Suspension Systems Accessories

	US Channel Wall Molding	US Channel Wall Molding w/Gasket US28CE	F-Molding
	Use with C-8 clip to hold down perimeter ceiling panels.	Use with C-8 clip in cleanroom application with DONN CE suspension system.	Use F-molding to create ceiling "breaks," soffits; changes in elevation.
	 Length x A x B x C		

	Catalog Number	Description	Packaging/Ctn.		
			LF	Pcs.	Wt. (lbs.)
US Channel Wall Molding	US12	10′ x 3/4″ x 1/2″ x 1″ U-Molding	500	50	44
	US20	10′ x 1-1/4″ x 1/2″ x 1″ U-Molding	300	30	57
	US28	10′ x 1-11/16″ x 1/2″ x 1″ U-Molding	300	30	63
	US31	10′ 1-15/16″ x 1/2″ x 1″ U-Molding	300	30	70
	UA25	10′ x 1-9/16″ x 1/2″ x 1″ Aluminum U-Molding	300	30	33
	US28CE	10′ x 1-11/16″ x 1/2″ x 1″ U-Molding w/ gaskets, Flat White	300	30	63
F-Molding	MF8	10′ x 1/2″ F-Molding (for 1/2″ panels)	100	10	28
	MF10	10′ x 5/8″ F-Molding (for 5/8″ panels)	100	10	29

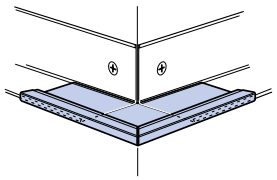
For information about the C-8 clip, see page 250.

Suspension Systems Accessories

Molding Accessories

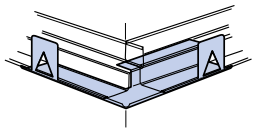
Square-Molding Corner Clip
JS

Use with angle molding.



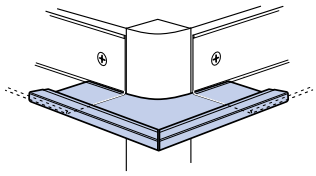
Outside Corner
JS174

Use with MS174 shadow molding.



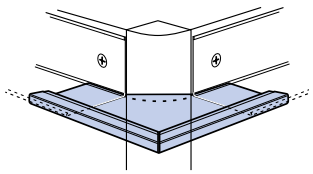
Radius-Molding Corner Clip
JH, JB

Use for radius or "bullnose" corners.



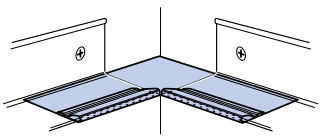
Field-Modified Corner
JM16

Cut clip to fit field condition.

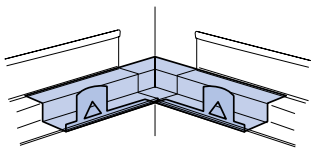


Inside-Corner Angle Mold
A2

Use with angle molding.



Prefabricated Shadowline Corners



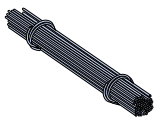
	Catalog Number	Description	Packaging/Ctn.	
			Pcs.	Wt. (lbs.)
Flat Corners	JS9	Square 90° Outside Corner Cap for 9/16″ Molding	100	3
	JS14	Square 90° Outside Corner Cap for 7/8″ Molding	100	3
	JS16	Square 90° Outside Corner Cap for 1″ Molding	100	3
	JS174	Square 90° Outside Corner Cap for MS174 Shadow Molding	50	1.5
	JH9	1″ Radius 90° Outside Corner Cap for 9/16″ Molding	100	3
	JH12	1″ Radius 90° Outside Corner Cap for 3/4″ Molding	100	3
	JH14	1″ Radius 90° Outside Corner Cap for 7/8″ Molding	100	3
	JH15	1″ Radius 90° Outside Corner Cap for 15/16″ Molding	100	3
	JH16	1″ Radius 90° Outside Corner Cap for 1″ Molding	100	3
	JB14	3/4″ Radius 90° Outside Corner Cap for 7/8″ Molding	100	3
	JB16	3/4″ Radius 90° Outside Corner Cap for 1″ Molding	100	3
	JM16	Field-Modified Corner for 1″ Molding	100	3
	A2	Inside Corner Cap for 7/8″ Molding	200	4
Shadowline	A134-7	Inside Corner Cap for MS134 Shadow Molding (3/4″ Leg)	50	1.5
	JS134-7	Square 90° Outside Corner Cap for MS134 Shadow Molding (3/4″ Leg)	50	1.5
	A134-9	Inside Corner Cap for MS134 Shadow Molding (9/16″ Leg)	50	1.5
	JS134-9	Square 90° Outside Corner Cap for MS134 Shadow Molding (9/16″ Leg)	50	1.5
	A174	Inside Corner Cap for MS174 Shadow Molding	50	1.5
	A274	Inside Corner Cap for MS274 Shadow Molding	50	1.5
	JS274	Square 90° Outside Corner Cap for MS274 Shadow Molding	50	1.5

For special lengths, contact your Customer Service representative. Hanger wire complies with Federal Specification QA-W-461H.

Grid Installation Accessories

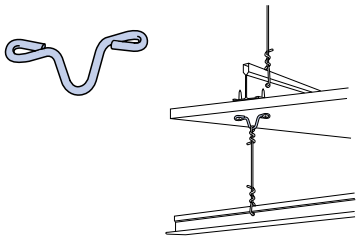
Galvanized Hanger Wire
A

Use to suspend acoustical ceilings. Also use for flat and curved USG drywall suspension system.



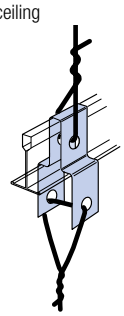
Drywall Grid Hanger Clip
B

Use to suspend secondary ceiling.



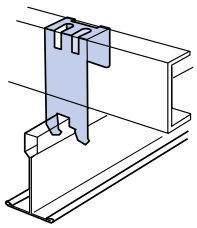
Grid Load Transfer Bracket
C

Use to suspend secondary ceiling



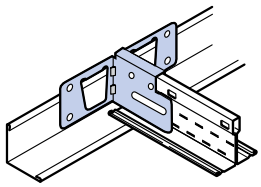
Furring Clip for Grid to Channel
D

Use to connect grid to 1-1/2″ channel.

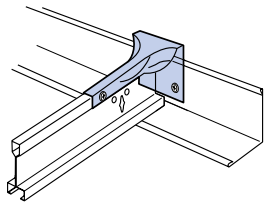


Seismic Attachment Clip for DX to Wall Angle
E

Use to attach grid at perimeter to avoid the use of pop rivets.



Molding Attachment Clip
F



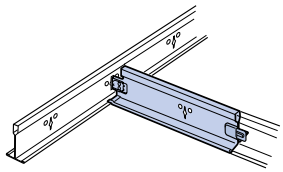
	Catalog Number	Description	Packaging/Ctn.		Detail Key
			Pcs.	Wt. (lbs.)	
Galvanized Hanger Wire Consult Customer Service for available lengths in your area.	215109	12-Gauge Wrapped 12 ft.; 50 lb. bundle	140	50	A
	217128	12-Gauge Wrapped 12 ft.; 36 lb. bundle	100	36	A
	217268	12-Gauge Wrapped 16 ft.	100	48	A
Grid to Primary Support	DGHC	Drywall Grid Hanger Clip	100	1.5	B
	256860	Grid Load Transfer Bracket, 15/16″ grid	250	13	C
	256861	Grid Load Transfer Bracket, 9/16″ grid	250	13	C
	256862	Grid Load Transfer Bracket, 1-1/2″ grid	250	13	C
	V14	Furring Clip for Grid to Channel	500	45	D
Grid to Molding	ACM7	Seismic Attachment Clip to Wall Angle	100	7	E
	MAC2	Molding Attachment Clip	100	3	F

Suspension Systems Accessories

Grid Installation Accessories

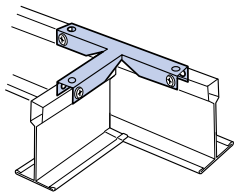
MT/CT Converter
G

Converter changes main-tee direction 90° from adjacent main tee.



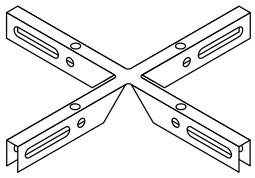
3-Way Off-Module Connector
H

Use with cross tees and main tees that are the same height.



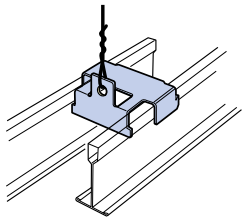
4-Way Seismic Expansion Joint Clip
I

Use with cross tees and main tees that are the same height.



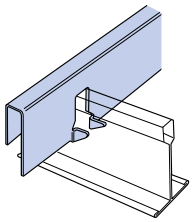
Paired Main-Tee Clip
J

Use for linear air diffusers; use only with DX®/DXL™, DXLA™, DXT, ZXLA™, FINELINE® (DXF), FINELINE® 1/8 (DXFF), and CENTRICITEE™ (DXT/DXLT).



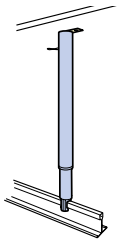
Stabilizer Bar
K

Use to stabilize grid installation without cross tees.



Seismic Compression Post
L

See Compression Post Technical Data Sheet #AC275. Listed with ICBO Report #2244.

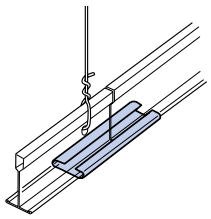


	Catalog Number	Description	Packaging/Ctn.			Detail Key
			LF	Pcs.	Wt. (lbs.)	
Tee-to-Tee	DXMT/CT	9″ x 1-1/2″ MT/CT Converter, changes MT direction	45	60	13	G
	DH3	3-Way Off-Module Connector	-	100	3	H
	DH4	4-Way Seismic Expansion Joint Connector	-	100	4	I
	V-32	Paired Main-Tee Clip (2″ separation center to center)	-	100	3	J
Stabilizer Bars	SB12	18″ Stabilizer Bar	200	200	27	K
	SB24	2′ Stabilizer Bar	400	200	52	K
	SB36	3′ Stabilizer Bar	300	100	40	K
	SB48	4′ Stabilizer Bar	400	100	50	K
	SB48-24	4′ Stabilizer Bar notched 2′ on center	400	100	50	K
	SB60	5′ Stabilizer Bar	500	100	64	K
	CC15-4-2	4′ Stabilizer Bar notched 2′ on center	200	50	27	K
Seismic Compression Posts	VSA18/30	Adjustable 18″ to 30″	-	1	2.0	L
	VSA30/48	Adjustable 30″ to 48″	-	1	2.5	L
	VSA48/84	Adjustable 48″ to 84″	-	1	4.5	L
	VSA84/102	Adjustable 84″ to 102″	-	1	7.5	L

Grid Installation Accessories

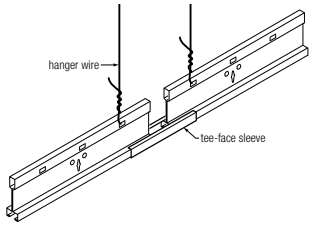
Standard-Face Tee-Face Sleeve
M

Use to cut in tees to existing system.
Available for 15/16″ and 9/16″ systems.



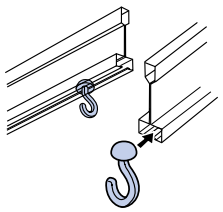
FINELINE Tee-Face Sleeve
N

Use to cut in tees to existing system.
Available for 1/4″- and 1/8″- reveal systems.



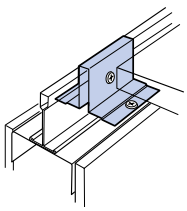
Accessory Hanger Hook
P

Remove top clip for use with standard 1/4″ FINELINE suspension system.



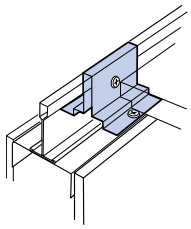
Partition Attachment Clip
Q1

Use for square-edge panels.



Partition Attachment Clip
Q2

Use with reveal-edge panels.



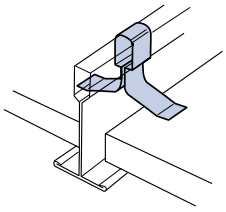
	Catalog Number	Description	Packaging/Ctn.		Detail Key
			Pcs.	Wt. (lbs.)	
Tee Accessories	TFS-1	Tee-Face Sleeve (3” long) for 15/16” DX/DXL Systems	250	10	M
	TFS-2	Tee-Face Sleeve (3” long) for 9/16” DXT Systems	250	10	M
	TFS-3	Tee-Face Sleeve (3” long) for DXF Systems with 1/4” Reveal	250	10	N
	TFS-4	Tee-Face Sleeve (3” long) for DXFF Systems with 1/8” Reveal	250	10	N
	TFC-1	Tee-Face Cover (2” long)	100	1	O
	AH1	Accessory Hanger Hook (white injection molded)	50	1	P
Partition Attachment	PAC15-SQ	Partition Clip for 15/16″ or 9/16″ SQ panels (245339)	100	8	Q1
	PAC15-SL	Partition Clip for 15/16″ SL panels (254340)	100	8	Q2
	PAC 9-FL	Partition Clip for 9/16″ FL panels (254341)	100	8	Q2

Suspension Systems Accessories

Grid Installation Accessories

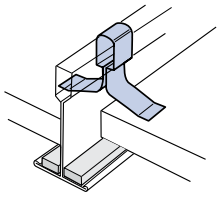
Hold-Down Clip—Fire-Rated Grid
Q1

Use when required in some fire-rated assemblies.



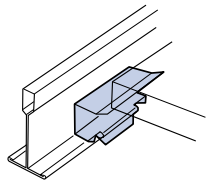
Hold-Down Clip
Q2

Use to maintain a cleanroom seal with DONN CE suspension system.



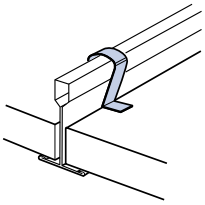
Accessible Hold-Down Clip
R

Use as a hold-down clip for 5/8″ panels. Provides ready accessibility.



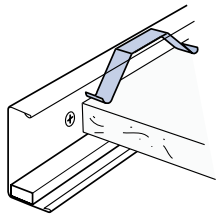
Variable Hold-Down Clip
S

Use for 5/16″ to 3/4″ panels.



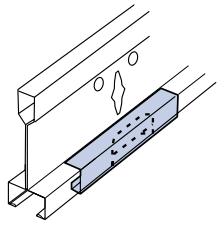
Wall Spring Clip
T

Use to hold down perimeter ceiling panels. Useful for maintaining cleanroom seal with US28CE molding.



Miter Closure Clip for FINELINE system
U

For closing off unused miters.



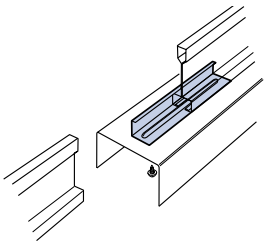
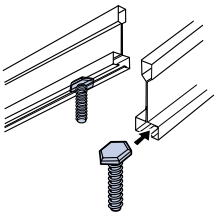
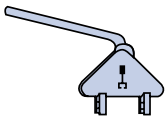
Hold-Down Clips

Catalog Number	Description	Packaging/Ctn.		Detail Key
		Pcs.	Wt. (lbs.)	
L15	Hold-Down Clip—for 5/8″ fire-rated panels	1000	7	Q1
L15CE	Hold-Down Clip—for panels in cleanroom applications	500	3.5	Q2
L45	Accessible Hold-Down Clip for 5/8″ panels	1000	15	R
V15	Variable Hold-Down Clip	1000	8	S
C-8	Wall Spring Clip	2000	29	T
C-8CE	Wall Spring Clip (same clip as C-8; smaller quantity)	500	8	T
MCC3	2″ Miter Closure Clip for 1/8″ FINELINE suspension system	50	1	U
MCC2	2″ Miter Closure Clip for standard FINELINE suspension system	50	1	U

Suspension Systems Accessories

Notes
C-8CE is the same clip in smaller quantity.

Grid Installation Accessories

Partition Attachment Clip V	**T-Bolt** W	**FINELINE Cut-Off Die** X
Use for closing off unused miters.	Use to bolt-attach partitions, signage or pendant-mounted indirect lighting.	Use to field-cut FINELINE tees.
		

FINELINE Accessories

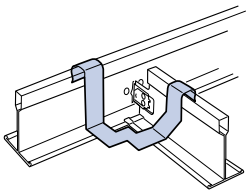
Catalog Number	**Description**	**Packaging/Ctn.**		**Detail Key**
		Pcs.	**Wt. (lbs.)**	
MCC3	2″ Miter Closure Clip for 1/8″ FINELINE suspension system	50	1	V
MCC2	2″ Miter Closure Clip for standard FINELINE suspension system	50	1	V
MAC2	Molding Attachment Clip for FINELINE suspension system	100	3	W
PAC1	3″ Partition Attachment Clip	50	1	V
TB1	1″ x 1/4″ - 20 T-Bolt	100	1	W
FC1	FINELINE Suspension System Cut-Off Die (scaffold mount)	1	10	X

Suspension Systems Accessories

Light-Fixture Accessories

Light-Fixture Clip

For CENTRICITEE suspension system; use black clips with parabolic fixtures. Cross tee must be connected to main tee.



	Catalog Number	Description	Packaging/Ctn.	
			Pcs.	Wt. (lbs.)
Light-Fixture Clip	LFC	Light-fixture Clip (specify Flat White or Flat Black)	100	2

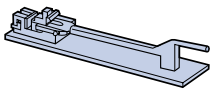
Suspension Systems Accessories

Notes
* One carton contains six 12-oz. cans. Paints will not be shipped air freight.
** Specify color number from price list.

Miscellaneous Accessories

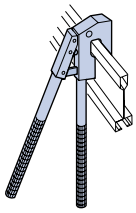
Universal Field Cross-Tee Hole Tool

For all DONN suspension systems.



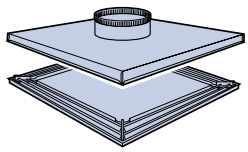
Hand-Held Field Cross-Tee Hold Tool

For all DONN suspension systems.



Air Diffuser

Field-cut foil-backed ceiling panel to fit diffuser face. Use with FINELINE and CENTRICITEE suspension systems.



	Catalog Number	Description	Packaging/Ctn.	
			Pcs.	Wt. (lbs.)
Cross-Tee Hole Punches	215738	Universal Field Cross-Tee Hole Tool	1	30
	200308	Hand-Held Cross-Tee Hole Tool	1	5
	204755	Replacement Die Block for Universal Cross-Tee Tool	1	1
	276759	Replacement Die Block for Hand-Held Cross-Tee Tool	1	1
	214418	Replacement Punch for Universal Cross-Tee Tool	1	1
	276760	Replacement Punch for Hand-Held Cross-Tee Tool	1	1
Touch-Up Paint	B14	Flat Black Spray Paint (205)*	6	7
	B13	Flat White Spray Paint (050)*	6	7
	PC15 GAL	Standard Gallon**	1	12
	PC16 QT	Standard Quart**	1	3
	PC19 GAL	Custom Gallon	1	12
	PC20 QT	Custom Quart	1	3
Air Diffusers Recommended for use with 9/16″ systems	AD16	2′ x 2′ 1 Slot with 6″ Collar	1	7
	AD18	2′ x 2′ 1 Slot with 8″ Collar	1	7
	AD26	2′ x 2′ 2 Slot with 6″ Collar	1	8
	AD28	2′ x 2′ 2 Slot with 8″ Collar	1	8
	AD38	2′ x 2′ 3 Slot with 8″ Collar	1	8
	AD310	2′ x 2′ 3 Slot with 10″ Collar	1	9
	AD410	2′ x 2′ 4 Slot with 10″ Collar	1	10
	AD412	2′ x 2′ 4 Slot with 12″ Collar	1	10

Logix™ Integrated Ceiling Systems

Selectors

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Product Information

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Put Everything on the Line

2′ x 6′ Halcyon *ClimaPlus* field panels, 6″ x 48″ Halcyon *ClimaPlus* channel panels, Fineline DXF suspension system

Logix Integrated Ceiling Systems

Transform lighting, air vents and other utilities from visual distractions to dramatic design elements by concentrating these fixtures on narrow bands running the length of a ceiling. Suddenly, the ceiling is neat and orderly, allowing wide-open spaces uninterrupted by mechanical components.

Logix integrated ceiling systems are designed to work with light fixtures available from many manufacturers. Visit USGDesignStudio.com for details.

Accolade 5 fixture by alight

Avenue 6 fixture by Focal Point

2′ x 6′ Halcyon *ClimaPlus* field panels, 6″ x 48″ Halcyon *ClimaPlus* channel panels, Fineline DXF suspension system

Logix™ Basic

Channels Intersect Tees

The Logix™ Basic system positions channels perpendicular to main tees. Sleek 6″ Halcyon *Climaplus* fiberglass lay-in panels or Panz metal ceiling panels are positioned adjacent to cross tees and may also be used between fixtures, creating a more integrated appearance.

Avenue 6 fixture by Focal Point

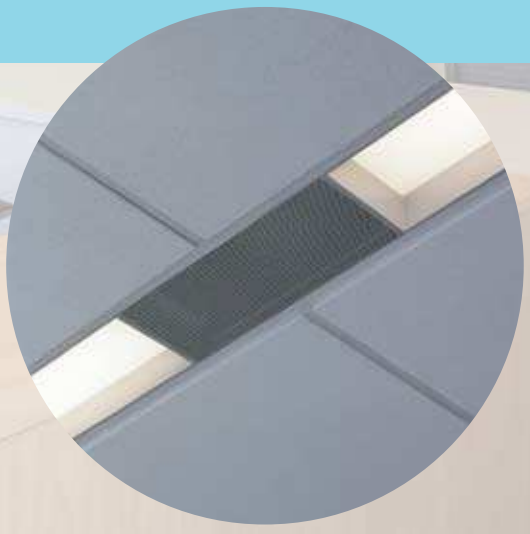
6″ x 48″ Panz utility panel with C116D perforation

30″ x 60″ Halcyon *ClimaPlus* field panels, 6″ x 12″ perforated Logix connector panels, Centricitee DXT suspension system

Logix™ Linear

Channels Uninterrupted by Tees

The Logix™ Linear system positions channels between main tees, allowing you to enliven your design with continuous, functional bands. Main tees on each side of a channel are joined with attractive metal Logix connector panels, perforated or solid, that introduce additional visual interest and provide a great location for sprinkler heads, PA speakers and air return.



When perforated, metal connector brackets provide an ideal location for air return.

30″ x 60″ Halcyon *ClimaPlus* field panels, 6″ x 12″ perforated Logix connector panels, Centricitee DXT suspension system

Logix Integrated Ceiling Systems

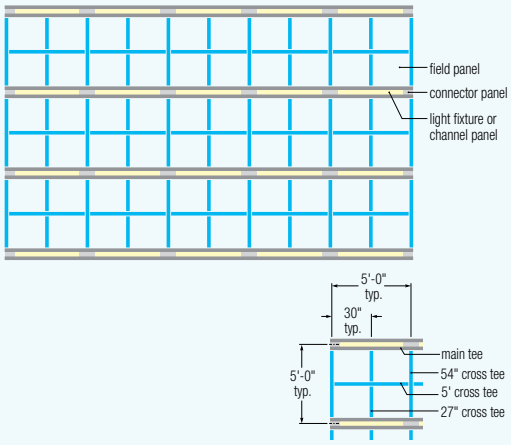
The field is fitted with fine-textured Halcyon *ClimaPlus* fiberglass panels in a range of standard and large sizes. Choose from three suspension systems including Fineline DXF. Several manufacturers offer light fixtures, HVAC diffusers and sprinkler solutions designed to integrate with Logix ceilings. Visit USGDesignStudio.com for details.

Logix Linear Channels Transform Utilities into a Dramatic Design Element.

Logix Linear Modules

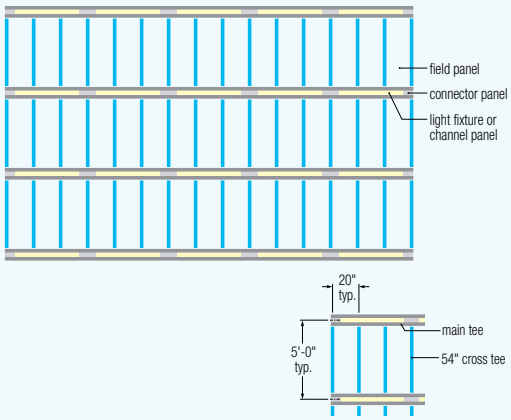
Channels Uninterrupted by Tees

30″ x 27″ Field Panel
6″ x 12″ Logix Connector Panel



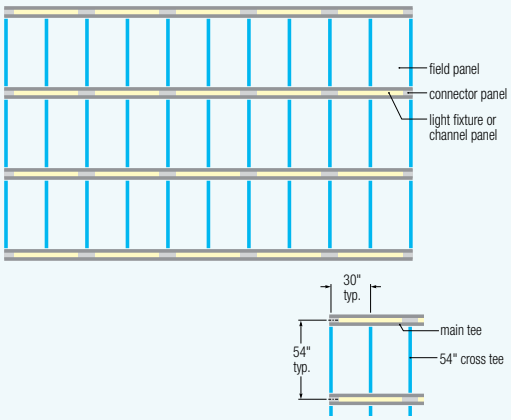
	Logix Linear Selector		
	Centricitee DXT FL Edge	Fineline DXF FL Edge	Fineline DXF CEL Edge
System with Halcyon Field Panel	LL06H030027DXT	LL06H030027DXF	
System with Panz Field Panel	LL06P030027DXT	LL06P030027DXF	
System with Celebration Field Panel			LL06C030027DXF

20″ x 54″ Field Panel
6″ x 12″ Logix Connector Panel



	Logix Linear Selector		
	Centricitee DXT FL Edge	Fineline DXF FL Edge	Fineline DXF CEL Edge
System with Halcyon Field Panel	LL06H020054DXT	LL06H020054DXF	
System with Panz Field Panel	LL06P020054DXT	LL06P020054DXF	
System with Celebration Field Panel			LL06C020054DXF

30″ x 54″ Field Panel
6″ x 12″ Logix Connector Panel



	Logix Linear Selector		
	Centricitee DXT FL Edge	Fineline DXF FL Edge	Fineline DXF CEL Edge
System with Halcyon Field Panel	LL06H030054DXT	LL06H030054DXF	
System with Panz Field Panel	LL06P030054DXT	LL06P030054DXF	
System with Celebration Field Panel			LL06C030054DXF

Logix Basic Modules

Channels Intersect Tees

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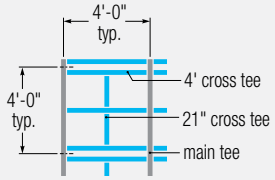
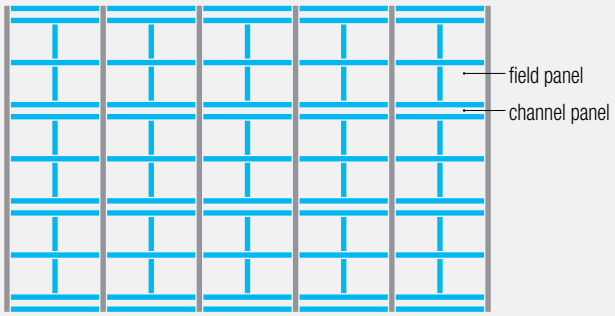
Listed by Module Size

4′ x 4′ Module	**21″ x 24″ Field Panel** **6″ x 48″ Utility Panel**	Centricitee DXT FL Edge	DX/DXL SQ Edge	SL Edge	Fineline DXF FL Edge
	Halcyon Field Panel	98195			98195
	Halcyon Channel Panel	98198			98198
	Panz Channel Panel (Smooth)	256820			256820
	Panz Channel Panel (C116 Perf.)	257176			257176
	Panz Channel Panel (C116D Perf.)	256471			256471
	Main Tee	DXT24/26			DXF144/21
	Cross Tee 1	DXT422/424			DXF21
	Cross Tee 2	DXT21			DXF429N
	Cross Tee 3	—			DXF429S

Ceiling Schematic

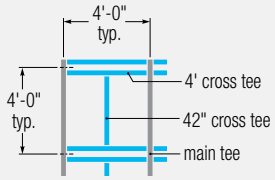


Ceiling Plan

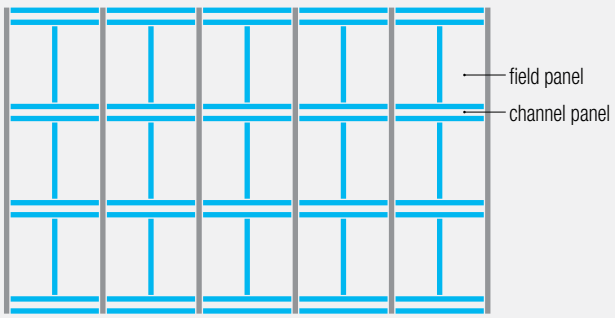


4′ x 4′ Module	**24″ x 42″ Field Panel** **6″ x 48″ Utility Panel**	Centricitee DXT FL Edge	DX/DXL SQ Edge	SL Edge	Fineline DXF FL Edge
	Halcyon Field Panel	98196			98196
	Halcyon Channel Panel	98198			98198
	Panz Channel Panel (Smooth)	256820			256820
	Panz Channel Panel (C116 Perf.)	257176			257176
	Panz Channel Panel (C116D Perf.)	256471			256471
	Main Tee	DXT24/26			DXF144/42
	Cross Tee 1	DXT422/424			DXF42
	Cross Tee 2	DXT42			DXF429S

Ceiling Schematic



Ceiling Plan

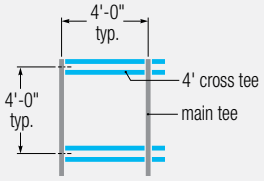


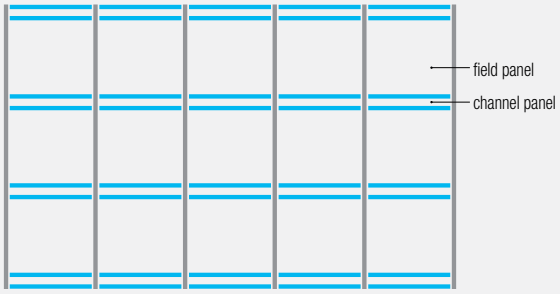
Logix Basic Modules

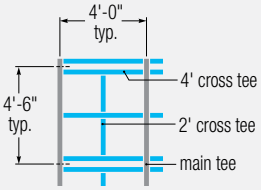
Channels Intersect Tees

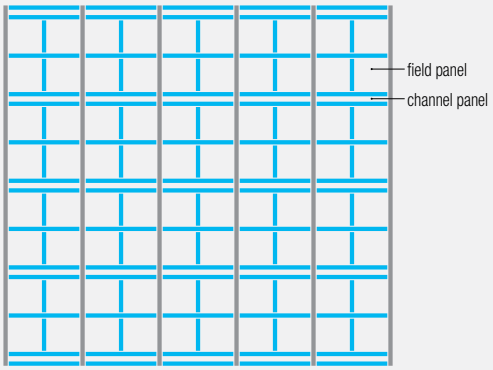
Listed by Module Size

4′ x 4′ Module	**42″ x 48″ Field Panel** **6″ x 48″ Utility Panel**	Centricitee DXT FL Edge	DX/DXL SQ Edge	SL Edge	Fineline DXF FL Edge
	Halcyon Field Panel	98343			98343
	Halcyon Channel Panel	98198			98198
	Panz Channel Panel (Smooth)	256820			256820
	Panz Channel Panel (C116 Perf.)	257176			257176
	Panz Channel Panel (C116D Perf.)	256471			256471
	Main Tee	DXT24/26			DXF144/42
	Cross Tee 1	DXT422/424			DXF429
	Ceiling Schematic	Ceiling Plan			
4′6″ x 4′ Module	**24″ x 24″ Field Panel** **6″ x 48″ Utility Panel**	Centricitee DXT FL Edge	DX/DXL SQ Edge	SL Edge	Fineline DXF FL Edge
	Halcyon Field Panel	98225	98221	98223	98225
	Halcyon Channel Panel	98198	97227	99271	98198
	Panz Channel Panel (Smooth)	256820	256768	256819	256820
	Panz Channel Panel (C116 Perf.)	257176	256821	257175	257176
	Panz Channel Panel (C116D Perf.)	256471	256546	256545	256471
	Main Tee	DXT24/26	DX/DXL24/26	DX/DXL24/26	DXF108/24
	Cross Tee 1	DXT422/424	DX/DXL422/424	DX/DXL422/424	DXF229
	Cross Tee 2	DXT222	DX/DXL216	DX/DXL216	DXF429N
	Cross Tee 3	—	—	—	DXF429S
	Ceiling Schematic	Ceiling Plan			









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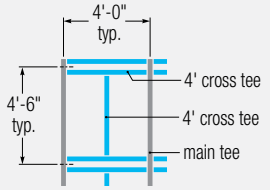
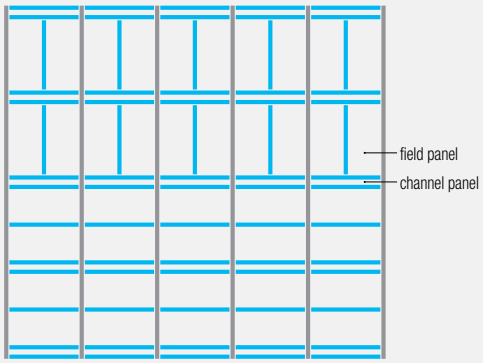
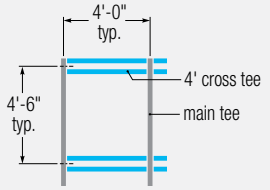
Listed by Module Size

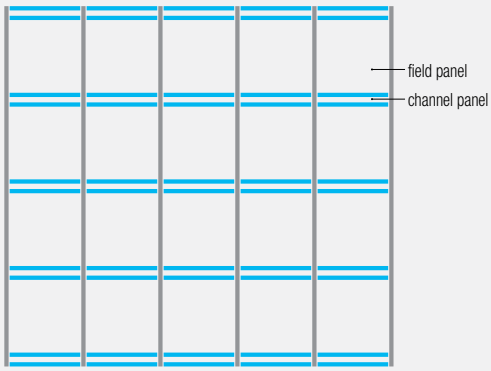
4′6″ x 4′ Module	**24″ x 48″ Field Panel** **6″ x 48″ Utility Panel**	CENTRICITEE DXT FL Edge	DX/DXL SQ Edge	SL Edge	FINELINE DXF FL Edge
	HALCYON Field Panel	98245	98241	98243	98245
	HALCYON Channel Panel	98198	97227	99271	98198
	PANZ Channel Panel (Smooth)	256820	256768	256819	256820
	PANZ Channel Panel (C116 Perf.)	257176	256821	257175	257176
	PANZ Channel Panel (C116D Perf.)	256471	256546	256545	256471
	Main Tee	DXT24/26	DX/DXL24/26	DX/DXL24/26	DXF108/48
	Cross Tee 1	DXT422/424	DX/DXL422/424	DX/DXL422/424	DXF429
	Cross Tee 2	—	—	—	DXF429S*
	Ceiling Schematic	Ceiling Plan			





4′6″ x 4′ Module	**48″ x 48″ Field Panel** **6″ x 48″ Utility Panel**	CENTRICITEE DXT FL Edge	DX/DXL SQ Edge	SL Edge	FINELINE DXF FL Edge
	HALCYON Field Panel	98445	98441	98443	98445
	HALCYON Channel Panel	98198	97227	99271	98198
	PANZ Channel Panel (Smooth)	256820	256768	256819	256820
	PANZ Channel Panel (C116 Perf.)	257176	256821	257175	257176
	PANZ Channel Panel (C116D Perf.)	256471	256546	256545	256471
	Main Tee	DXT24/26	DX/DXL24/26	DX/DXL24/26	DXF108/48
	Cross Tee 1	DXT422/424	DX/DXL422/424	DX/DXL422/424	DXF429
	Ceiling Schematic	Ceiling Plan			





Logix Basic Modules

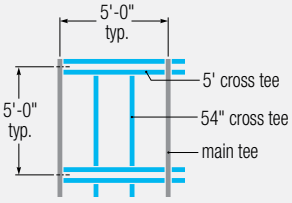
Channels Intersect Tees

Listed by Module Size

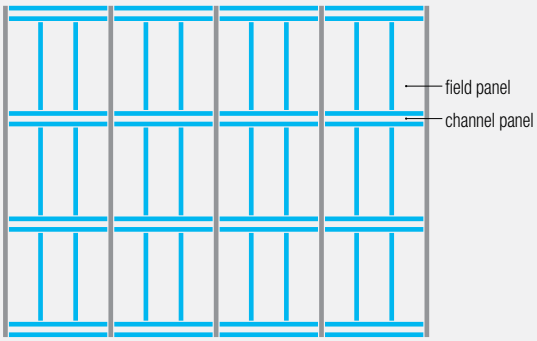
HALCYON *CLIMAPLUS* field and channel panel with FINELINE DXF suspension and Amerlux light fixture

5′ x 5′ Module	**20″ x 54″ Field Panel** **6″ x 60″ Utility Panel**	CENTRICITEE DXT FL Edge	DX/DXL SQ Edge	SL Edge	FINELINE DXF FL Edge
	HALCYON Field Panel	98360			98340
	HALCYON Channel Panel	98199			98199
	PANZ Channel Panel (Smooth)	258036			258036
	PANZ Channel Panel (C116 Perf.)	258894			258894
	PANZ Channel Panel (C116D Perf.)	259008			259008
	Main Tee	DXT24/26			DXF120/54
	Cross Tee 1	DXT524			DXF54
	Cross Tee 2	DXT54			DXF529SS
	Cross Tee 3	—			
	Stabilizer Bar	CC 15 20			CC 15 20

Ceiling Schematic



Ceiling Plan



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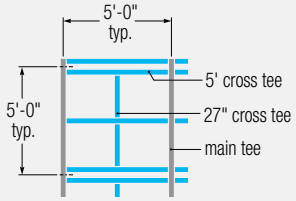
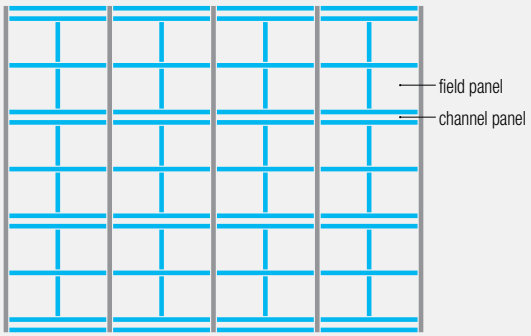
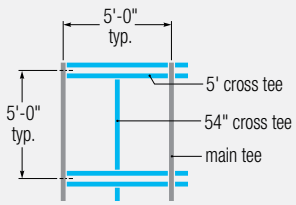
Listed by Module Size

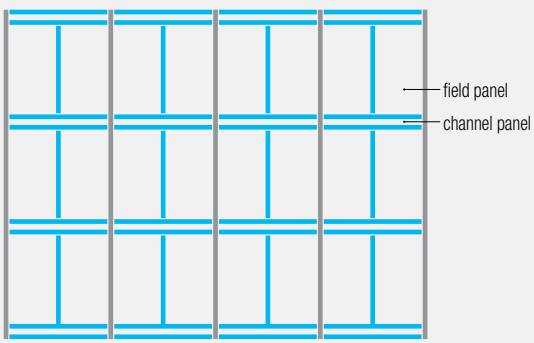
5′ x 5′ Module	**27″ x 30″ Field Panel** **6″ x 60″ Utility Panel**	CENTRICITEE DXT FL Edge	DX/DXL SQ Edge	SL Edge	FINELINE DXF FL Edge
	HALCYON Field Panel	97333			97333
	HALCYON Channel Panel	98199			98199
	PANZ Channel Panel (Smooth)	258036			258036
	PANZ Channel Panel (C116 Perf.)	258894			258894
	PANZ Channel Panel (C116D Perf.)	259008			259008
	Main Tee	DXT24/26			DXF120/27
	Cross Tee 1	DXT524			DXF27
	Cross Tee 2	DXT27			DXF529N
	Cross Tee 3	—			DXF529S
	Ceiling Schematic	Ceiling Plan			





5′ x 5′ Module	**30″ x 54″ Field Panel** **6″ x 60″ Utility Panel**	CENTRICITEE DXT FL Edge	DX/DXL SQ Edge	SL Edge	FINELINE DXF FL Edge
	HALCYON Field Panel	98359			98359
	HALCYON Channel Panel	98199			98199
	PANZ Channel Panel (Smooth)	258036			258036
	PANZ Channel Panel (C116 Perf.)	258894			258894
	PANZ Channel Panel (C116D Perf.)	259008			259008
	Main Tee	DXT24/26			DXF120/54
	Cross Tee 1	DXT524			DXF54
	Cross Tee 2	DXT54			DXF529S
	Stabilizer Bar	CC 15 30			CC 15 30
	Ceiling Schematic	Ceiling Plan			





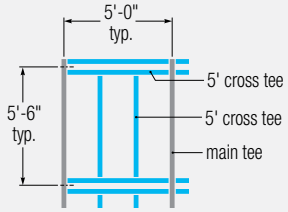
Logix Basic Modules

Channels Intersect Tees

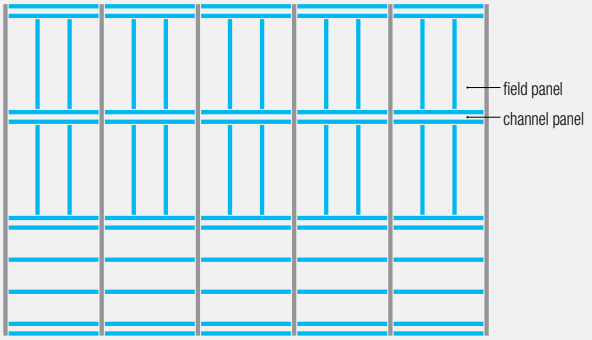
Listed by Module Size

5′6″ x 5′ Module	**20″ x 60″ Field Panel** **6″ x 60″ Utility Panel**	Centricitee DXT FL Edge	DX/DXL SQ Edge	SL Edge	Fineline DXF FL Edge
	Halcyon Field Panel	98194	98261	99267	98194
	Halcyon Channel Panel	98198	97228	99272	98198
	Panz Channel Panel (Smooth)	258036	257586	257972	258036
	Panz Channel Panel (C116 Perf.)	258894	258037	258845	258894
	Panz Channel Panel (C116D Perf.)	259008	258929	259007	259008
	Main Tee	DXT24/26	DX/DXL24/26	DX/DXL24/26	DXF132/60
	Cross Tee 1	DXT524	DX/DXL524	DX/DXL524	DXF529
	Cross Tee 2	—	—	—	DXF529SS
	Stabilizer Bar	CC 15 20	—	—	CC 15 20

Ceiling Schematic

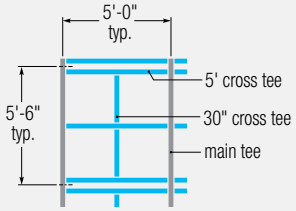


Ceiling Plan

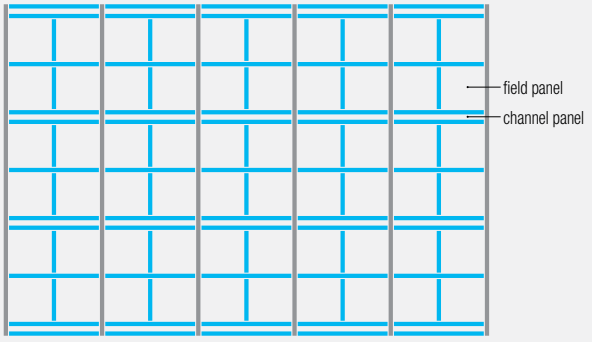


5′6″ x 5′ Module	**30″ x 30″ Field Panel** **6″ x 60″ Utility Panel**	Centricitee DXT FL Edge	DX/DXL SQ Edge	SL Edge	Fineline DXF FL Edge
	Halcyon Field Panel	98335	98331	98333	98335
	Halcyon Channel Panel	98199	97228	99272	98199
	Panz Channel Panel (Smooth)	258036	257586	257972	258036
	Panz Channel Panel (C116 Perf.)	258894	258037	258845	258894
	Panz Channel Panel (C116D Perf.)	259008	258929	259007	259008
	Main Tee	DXT24/26	DX/DXL24/26	DX/DXL24/26	DXF132/30
	Cross Tee 1	DXT524	DX/DXL524	DX/DXL524	DXF30
	Cross Tee 2	DXT30	DX30	DX30	DXF529S

Ceiling Schematic



Ceiling Plan



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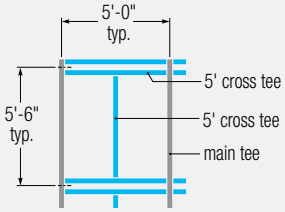
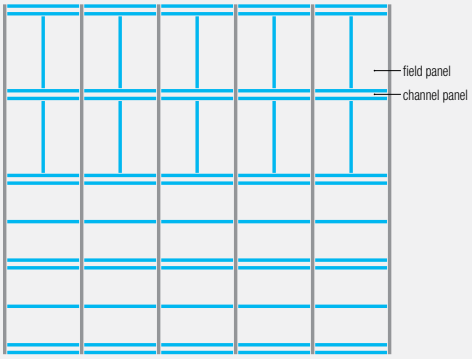
Listed by Module Size

5′6″ x 5′ Module	**30″ x 60″ Field Panel** **6″ x 60″ Utility Panel**	CENTRICITEE DXT FL Edge	DX/DXL SQ Edge	SL Edge	FINELINE DXF FL Edge
	HALCYON Field Panel	98336	97266	99270	98336
	HALCYON Channel Panel	98199	97228	99272	98199
	PANZ Channel Panel (Smooth)	258036	257586	257972	258036
	PANZ Channel Panel (C116 Perf.)	258894	258037	258845	258894
	PANZ Channel Panel (C116D Perf.)	259008	258929	259007	259008
	Main Tee	DXT24/26	DX/DXL24/26	DX/DXL24/26	DXF132/60
	Cross Tee 1	DXT524	DX/DXL524	DX/DXL524	DXF529
	Cross Tee 2	—	—	—	DXF529S
	Stabilizer Bar	CC 15 30	—	—	CC 15 30

Ceiling Schematic

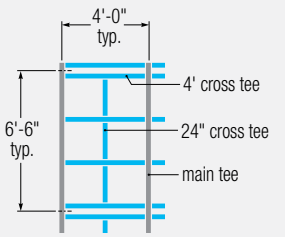


Ceiling Plan

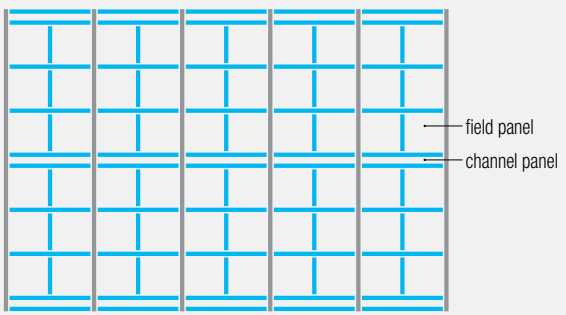


6′6″ x 4′ Module	**24″ x 24″ Field Panel** **6″ x 48″ Utility Panel**	CENTRICITEE DXT FL Edge	DX/DXL SQ Edge	SL Edge	FINELINE DXF FL Edge
	HALCYON Field Panel	98225	98221	98223	98225
	HALCYON Channel Panel	98198	97227	99271	98198
	PANZ Channel Panel (Smooth)	256820	256768	256819	256820
	PANZ Channel Panel (C116 Perf.)	257176	256821	257175	257176
	PANZ Channel Panel (C116D Perf.)	256471	256546	256545	256471
	Main Tee	DXT24/26	DX/DXL24/26	DX/DXL24/26	DXF78/24
	Cross Tee 1	DXT422/424	DX/DXL422/424	DX/DXL422/424	DXF229
	Cross Tee 2	DXT222	DX/DXL216	DX/DXL216	DXF429N
	Cross Tee 3	—	—	—	DXF429S

Ceiling Schematic



Ceiling Plan



Logix Basic Modules

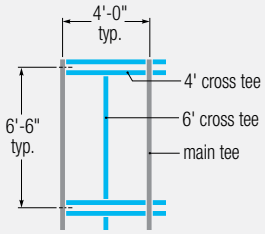
Channels Intersect Tees

Listed by Module Size

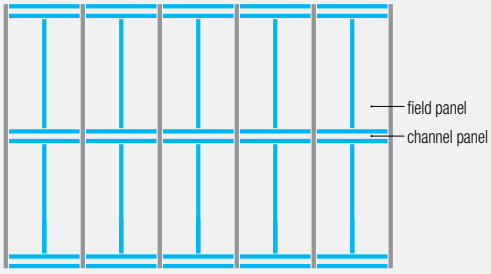
6′6″ x 4′ Module

24″ x 72″ Field Panel **6″ x 48″ Utility Panel**	Centricitee DXT FL Edge	DX/DXL SQ Edge	SL Edge	Fineline DXF FL Edge
Halcyon Field Panel	98348	97262	99268	98348
Halcyon Channel Panel	98198	97227	99271	98198
Panz Channel Panel (Smooth)	256820	256768	256819	256820
Panz Channel Panel (C116 Perf.)	257176	256821	257175	257176
Panz Channel Panel (C116D Perf.)	256471	256546	256545	256471
Main Tee	DXT24/26	DX/DXL24/26	DX/DXL24/26	DXF78/72
Cross Tee 1	DXT424	DX/DXL424	DX/DXL424	DXF629
Cross Tee 2	DXT624	DX624	DX624	DXF429S
Stabilizer Bar	CC 15 24	—	—	CC 15 24

Ceiling Schematic



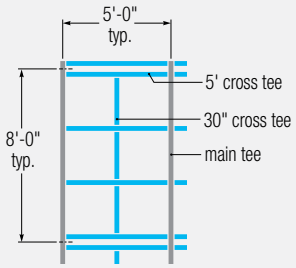
Ceiling Plan



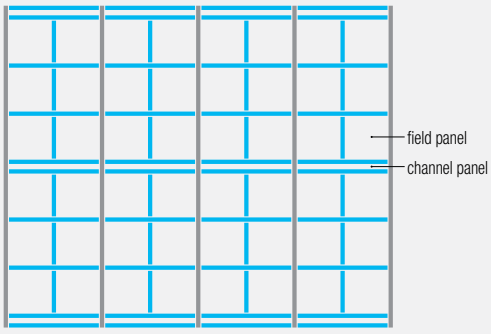
8′ x 5′ Module

30″ x 30″ Field Panel **6″ x 60″ Utility Panel**	Centricitee DXT FL Edge	DX/DXL SQ Edge	SL Edge	Fineline DXF FL Edge
Halcyon Field Panel	98335	98331	98333	98335
Halcyon Channel Panel	98199	97228	99272	98199
Panz Channel Panel (Smooth)	258036	257586	257972	258036
Panz Channel Panel (C116 Perf.)	258894	258037	258845	258894
Panz Channel Panel (C116D Perf.)	259008	258929	259007	259008
Main Tee	DXT24/26	DX/DXL24/26	DX/DXL24/26	DXF96/30
Cross Tee 1	DXT524	DX/DXL524	DX/DXL524	DXF30
Cross Tee 2	DXT30	DX30	DX30	DXF529N
Cross Tee 3	—	—	—	DXF529S

Ceiling Schematic



Ceiling Plan



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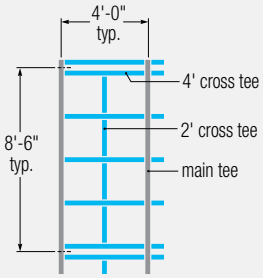
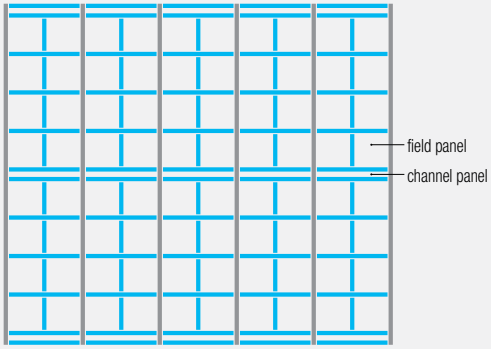
Listed by Module Size

8′6″ x 4′ Module	**24″ x 24″ Field Panel** **6″ x 48″ Utility Panel**	CENTRICITEE DXT FL Edge	DX/DXL SQ Edge	SL Edge	FINELINE DXF FL Edge
	HALCYON Field Panel	98225	98221	98223	98225
	HALCYON Channel Panel	98198	97227	99271	98198
	PANZ Channel Panel (Smooth)	256820	256768	256819	256820
	PANZ Channel Panel (C116 Perf.)	257176	256821	257175	257176
	PANZ Channel Panel (C116D Perf.)	256471	256546	256545	256471
	Main Tee	DXT24/26	DX/DXL24/26	DX/DXL24/26	DXF102/24
	Cross Tee 1	DXT422/424	DX/DXL422/424	DX/DXL422/424	DXF229
	Cross Tee 2	DXT222	DX/DXL216	DX/DXL216	DXF429N
	Cross Tee 3	—	—	—	DXF429S

Ceiling Schematic

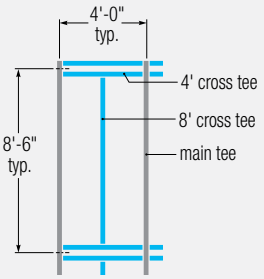


Ceiling Plan

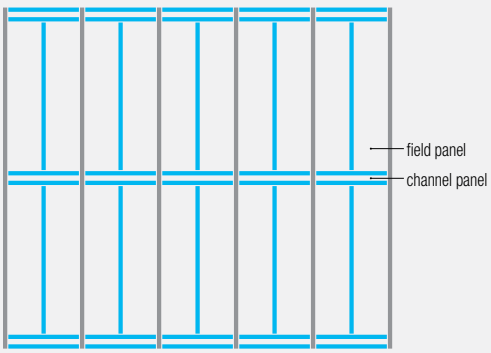


8′6″ x 4′ Module	**24″ x 96″ Field Panel** **6″ x 48″ Utility Panel**	CENTRICITEE DXT FL Edge	DX/DXL SQ Edge	SL Edge	FINELINE DXF FL Edge
	HALCYON Field Panel	98197	97263	99269	98197
	HALCYON Channel Panel	98198	97227	99271	98198
	PANZ Channel Panel (Smooth)	256820	256768	256819	256820
	PANZ Channel Panel (C116 Perf.)	257176	256821	257175	257176
	PANZ Channel Panel (C116D Perf.)	256471	256546	256545	256471
	Main Tee	DXT24/26	DX/DXL24/26	DX/DXL24/26	DXF102/96
	Cross Tee 1	DXT422/424	DX/DXL422/424	DX/DXL422/424	DXF829
	Cross Tee 2	DXT824	DX824	DX824	DXF429S
	Stabilizer Bar				CC1524

Ceiling Schematic



Ceiling Plan



Logix Basic Modules

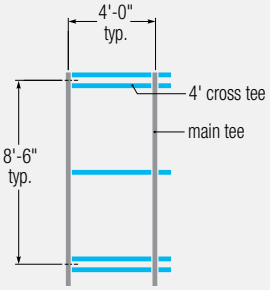
Channels Intersect Tees

Listed by Module Size

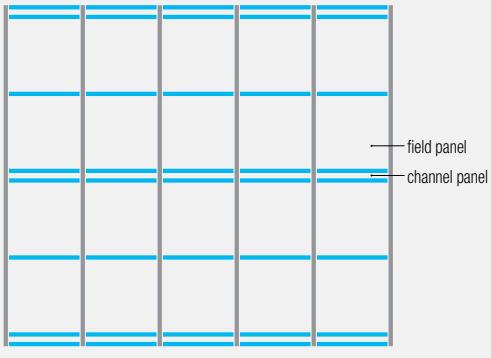
HALCYON *CLIMAPLUS* field and PANZ solid channel panel with FINELINE DXF suspension and Focal Point avenue 6 light fixture

8′6″ x 4′ Module	**48″ x 48″ Field Panel** **6″ x 48″ Utility Panel**	CENTRICITEE DXT FL Edge	DX/DXL SQ Edge	 SL Edge	FINELINE DXF FL Edge
	HALCYON Field Panel	98445	98441	98443	98445
	HALCYON Channel Panel	98198	97227	99271	98198
	PANZ Channel Panel (Smooth)	256820	256768	256819	256820
	PANZ Channel Panel (C116 Perf.)	257176	256821	257175	257176
	PANZ Channel Panel (C116D Perf.)	256471	256546	256545	256471
	Main Tee	DXT24/26	DX/DXL24/26	DX/DXL24/26	DXF102/48
	Cross Tee 1	DXT422/424	DX/DXL422/424	DX/DXL422/424	DXF429
	Cross Tee 2	—	—	—	

Ceiling Schematic



Ceiling Plan



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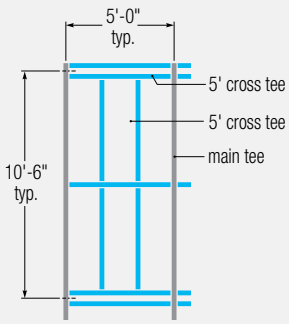
Listed by Module Size

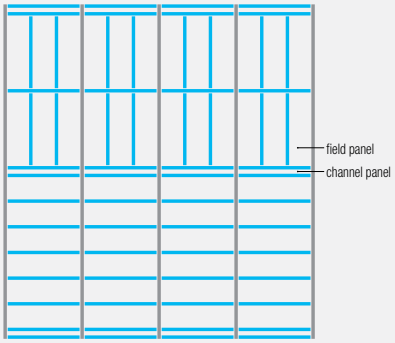
10′6″ x 5′ Module

20″ x 60″ Field Panel **6″ x 60″ Utility Panel**	CENTRICITEE DXT FL Edge	DX/DXL SQ Edge	SL Edge	FINELINE DXF FL Edge
HALCYON Field Panel	98194	98261	99267	98194
HALCYON Channel Panel	98199	97228	99272	98199
PANZ Channel Panel (Smooth)	258036	257586	257972	258036
PANZ Channel Panel (C116 Perf.)	258894	258037	258845	258894
PANZ Channel Panel (C116D Perf.)	259008	258929	259007	259008
Main Tee	DXT24/26	DX/DXL24/26	DX/DXL24/26	DXF126/60
Cross Tee 1	DXT524	DX/DXL524	DX/DXL524	DXF529
Cross Tee 2	—	—	—	DXF529NN
Cross Tee 3	—	—	—	DXF529SS
Stabilizer Bar	CC 15 20			CC 15 20

Ceiling Schematic



Ceiling Plan



Logix Panels

30 Year System Warranty
– No visible sag
– Mold/mildew protection

	Edge	Panel Size[1]	Class	Item No.	UL Classified NRC Min.	CAC	LR[2]	Color	Grid Options	Anti-Mold & Mildew	Recycled Content[3]	Panel Cost
Halcyon *ClimaPlus* Field Panels	SQ	**20″ x 60″ x 1″**	Class A	**98261**	.95	20	.88	White	A	○	41%	**$$**
		2′ x 2′ x 1″	Class A	**98221**	.95	20	.88	White	A	○	41%	**$$**
		2′ x 4′ x 1″	Class A	**98241**	.95	20	.88	White	A	○	41%	**$$**
		30″ x 30″ x 1″	Class A	**98331**	.95	20	.88	White	A	○	41%	**$$$**
		30″ x 60″ x 1″	Class A	**97266**	.95	20	.88	White	A	○	41%	**$$$**
		4′ x 4′ x 1″	Class A	**98441**	.95	20	.88	White	A	○	41%	**$$$**
	SL	**20″ x 60″ x 1″**	Class A	**99267**	.95	20	.88	White	B	○	41%	**$$**
		2′ x 2′ x 1″	Class A	**98223**	.95	20	.88	White	B	○	41%	**$$**
		2′ x 4′ x 1″	Class A	**98243**	.95	20	.88	White	B	○	41%	**$$**
		30″ x 30″ x 1″	Class A	**98333**	.95	20	.88	White	B	○	41%	**$$$**
		30″ x 60″ x 1″	Class A	**99270**	.95	20	.88	White	B	○	41%	**$$$**
		4′ x 4′ x 1″	Class A	**98443**	.95	20	.88	White	B	○	41%	**$$$**
	FL	**20″ x 54″ x 1″**	Class A	**98360**	.95	20	.88	White	C,D	○	41%	**$$$**
		20″ x 60″ x 1″	Class A	**98194**	.95	20	.88	White	C,D	○	41%	**$$**
		21″ x 24″ x 1″	Class A	**98195**	.95	20	.88	White	C,D	○	41%	**$$$**
		2′ x 2′ x 1″	Class A	**98225**	.95	20	.88	White	C,D	○	41%	**$$**
		24″ x 42″ x 1″	Class A	**98196**	.95	20	.88	White	C,D	○	41%	**$$$**
		2′ x 4′ x 1″	Class A	**98245**	.95	20	.88	White	C,D	○	41%	**$$**
		27″ x 30″ x 1″	Class A	**97333**	.95	20	.88	White	C,D	○	41%	**$$$**
		30″ x 30″ x 1″	Class A	**98335**	.95	20	.88	White	C,D	○	41%	**$$$**
		30″ x 54″ x 1″	Class A	**98359**	.95	20	.88	White	C,D	○	41%	**$$$**
		30″ x 60″ x 1″	Class A	**98336**	.95	20	.88	White	C,D	○	41%	**$$$**
		42″ x 48″ x 1″	Class A	**98343**	.95	20	.88	White	C,D	○	41%	**$$$**
		4′ x 4′ x 1″	Class A	**98445**	.95	20	.88	White	C,D	○	41%	**$$$**

	A DX®/DXL™	**B** DX/DXL	**C** Centricitee™ DXT	**D** Fineline® DXF
Grid Profile Options				

30 Year System Warranty
– No visible sag
– Mold/mildew protection

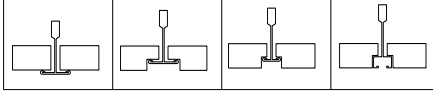
	Edge	Panel Size[1]	Class	Item No.	UL Classified NRC Min.	CAC	LR[2]	Color	Grid Options	Anti-Mold & Mildew	Recycled Content[3]	Panel Cost
HALCYON *CLIMAPLUS* Planks	SQ	**2′ x 6′ x 3/4″**	Class A	**97262**	.90	20	.88	White	A	○	40%	**$$$**
		2′ x 8′ x 3/4″	Class A	**97263**	.90	20	.88	White	A	○	40%	**$$$**
	SL	**2′ x 6′ x 1″**	Class A	**99268**	.95	20	.88	White	B	○	41%	**$$$**
		2′ x 8′ x 1″	Class A	**99269**	.95	20	.88	White	B	○	41%	**$$$**
	FL	**2′ x 6′ x 1″**	Class A	**98348**	.95	20	.88	White	C,D	○	41%	**$$$**
		2′ x 8′ x 1″	Class A	**98197**	.95	20	.88	White	C,D	○	41%	**$$$**
HALCYON *CLIMAPLUS* Channel Panels	SQ	**6″ x 48″ x 1″**	Class A	**97227**	.95	20	.88	White	A	○	41%	**$$$$**
		6″ x 60″ x 1″	Class A	**97228**	.95	20	.88	White	A	○	41%	**$$$$**
	SL	**6″ x 48″ x 1″**	Class A	**99271**	.95	20	.88	White	B	○	41%	**$$$$**
		6″ x 60″ x 1″	Class A	**99272**	.95	20	.88	White	B	○	41%	**$$$$**
	FL	**6″ x 48″ x 1″**	Class A	**98198**	.95	20	.88	White	C,D	○	41%	**$$$$**
		6″ x 60″ x 1″	Class A	**98199**	.95	20	.88	White	C,D	○	41%	**$$$$**

Legend

○ ***CLIMAPLUS* Inherent Performance[4]**
Fiberglass substrate is inherently resistant to the growth of mold and mildew.

Grid Profile Options

A	B	C	D
DX/DXL	DX/DXL	CENTRICITEE DXT	FINELINE DXF



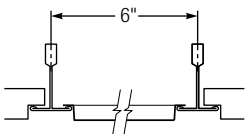
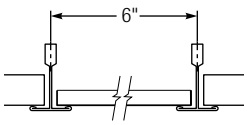
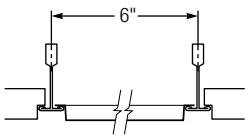
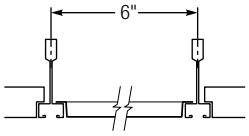
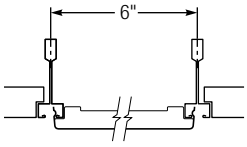
Logix Channel Interface Options

Channel Section

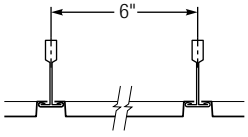
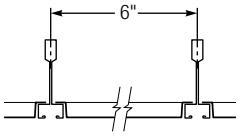
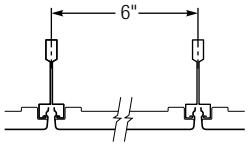
Visit USGDesignStudio.com
for complete details on compatible
utility options and documentation

Logix Basic

Acoustical Field Panel: Halcyon *ClimaPlus*
Metal Utility Panel: Panz or Celebration Panel, 6″ Wide x 48″ or 60″ Long

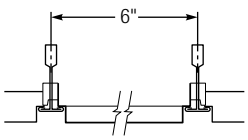
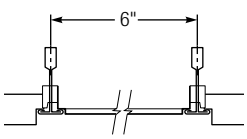
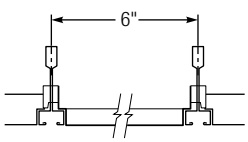
Channel Panel: Panz Suspension DX/DXL Edge: USL	Channel Panel: Panz Suspension: DX/DXL Edge: USQ	Channel Panel: Panz Suspension: Fineline DXF Edge: UFL
		
Channel Panel: Panz Suspension: Fineline DXF Edge: UFL	Channel Panel: Celebration Suspension: Fineline DXF Edge: CEL	
		

Metal Field Panel: Panz or Celebration
Metal Channel Panel: Panz or Celebration Panel, 6″ Wide x 48″ or 60″ Long

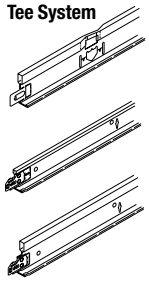
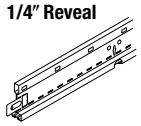
Field and Channel Panel: Panz Suspension: Centricitee DXT Edge: UFL	Field and Channel Panel: Panz Suspension: Fineline DXF Edge: UFL	Field and Channel Panel: Celebration Suspension: Fineline DXF Edge: CEL
		

Logix Linear

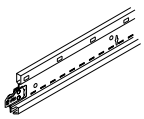
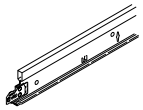
6″ Wide Uninterrupted Channel Accommodates 48″ or 60″ Light Fixtures
or HVAC Linear Diffusers with a 12″ or 24″ Logix Connector Panel

Connector Panel: Panz Suspension: Centricitee DXT Edge: UFL	Connector Panel: Panz Suspension: Centricitee DXT Edge: UFM	Connector Panel: Panz Suspension: Fineline DXF Edge: UFL
		

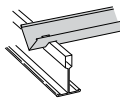
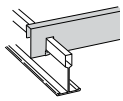
Logix Suspension Systems

		ASTM Class	Length	Height	Item No.	Class	Seismic Zones UBC	Seismic Zones IBC	Donn Seismic Solutions Categories D, E, F Alternate Method	Rated Load[5,6] 4′ Hanger Spacing	Rated Load[5,6] 5′ Hanger Spacing	Rated Load[5,6] 6′ Hanger Spacing
DX/DXL 15/16″ Tee System 	**Main Tee**	Intermediate Duty	12′	1-1/2″	**DX/DXL24**		0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
		Heavy Duty	12′	1.64″	**DX/DXL26**		0-4	A-F		16 lbs./LF	7.3 lbs./LF	4.9 lbs./LF
	Cross Tee 1″		2′	1″	**DX/DXL216**		0-4	A-F				
	Cross Tee 1-1/2″		30″	1-1/2″	**DX30**	Class A	0-4	A-F				
			4′	1-1/2″	**DX/DXL424**		0-4	A-F				
					DX/DXL422	Class A	0-4	A-F				
			5′	1-1/2″	**DX/DXL524**		0-4	A-F				
			6′	1-1/2″	**DX624**	Class A	0-4	A-F				
			8′	1-1/2″	**DX824**	Class A	0-4	A-F				
Fineline DXF 9/16″ Tee System with 1/4″ Reveal 	**Main Tee**	Intermediate Duty	6-1/2′	1-25/32″	**DXF78/24**	Class A	0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
					DXF78/72	Class A	0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
			8′	1-25/32″	**DXF96/30**	Class A	0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
			8-1/2′	1-25/32″	**DXF102/96**	Class A	0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
					DXF102/48	Class A	0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
					DXF102/24	Class A	0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
			9′	1-25/32″	**DXF108/24**	Class A	0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
					DXF108/42	Class A	0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
			10′	1-25/32″	**DXF120/27**	Class A	0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
					DXF120/54	Class A	0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
			10-1/2′	1-25/32″	**DXF126/60**	Class A	0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
			11′	1-25/32″	**DXF132/30**	Class A	0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
					DXF132/60	Class A	0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
			12′	1-25/32″	**DXF144/21**	Class A	0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF
					DXF144/42	Class A	0-4	A-C		12 lbs./LF	6.1 lbs./LF	3.6 lbs./LF

Logix Suspension Systems

		ASTM Class	Length	Height	Item No.	Class	Seismic Zones UBC	Seismic Zones IBC	Donn Seismic Solutions Categories D, E, F Alternate Method	Rated Load[5,6] 4′ Hanger Spacing	Rated Load[5,6] 5′ Hanger Spacing	Rated Load[5,6] 6′ Hanger Spacing
	**Cross Tee**		21″	1-25/32″	**DXF21**	Class A	0-4	A-C				
			2′	1-25/32″	**DXF229**	Class A	0-4	A-C				
			27″	1-25/32″	**DXF27**	Class A	0-4	A-C				
			30″	1-25/32″	**DXF30**	Class A	0-4	A-C				
			42″	1-25/32″	**DXF42**	Class A	0-4	A-C				
			4′	1-25/32″	**DXF429**	Class A	0-4	A-C				
					DXF429N	Class A	0-4	A-C				
					DXF429S	Class A	0-4	A-C				
			54″	1-25/32″	**DXF54**	Class A	0-4	A-C				
			5′	1-25/32″	**DXF529**	Class A	0-4	A-C				
					DXF529N	Class A	0-4	A-C				
					DXF529S	Class A	0-4	A-C				
					DXF529NN	Class A	0-4	A-C				
					DXF529SS	Class A	0-4	A-C				
			6′	1-25/32″	**DXF629**	Class A	0-4	A-C				
			8′	1-25/32″	**DXF829**	Class A	0-4	A-C				
Centricitee DXT 9/16″ Tee System	**Main Tee**	Intermediate Duty	12′	1-1/2″	**DXT24**	Class A	0-4	A-C		12 lbs./LF	6.6 lbs./LF	
					UCDXT24[7]	Class A	0-4	A-C		12 lbs./LF	6.6 lbs./LF	
					UCDXT26[7]	Class A	0-4	A-C		12 lbs./LF	6.6 lbs./LF	
		Heavy Duty	12′	1-1/2″	**DXT26**	Class A	0-4	A-F		16 lbs./LF	7.3 lbs./LF	
	**Cross Tee**		21″	1-1/2″	**DXT2122**	Class A	0-4	A-F				
			2′	1-1/2″	**DXT222**	Class A	0-4	A-F				
					DXLT222		0-4	A-F				

		ASTM Class	Length	Height	Item No.	Class	Seismic Zones UBC	Seismic Zones IBC	DONN Seismic Solutions Categories D, E, F Alternate Method	Rated Load[5,6] 4′ Hanger Spacing	Rated Load[5,6] 5′ Hanger Spacing	Rated Load[5,6] 6′ Hanger Spacing
CENTRICITEE DXT 9/16″ Tee System (continued)	**Cross Tee**		27″	1-1/2″	**DXT2722**	Class A	0-4	A-F				
			42″	1-1/2″	**DXT4224**	Class A	0-4	A-F				
			4′	1-1/2″	**DXT422**	Class A	0-4	A-F				
					DXT424	Class A	0-4	A-F				
					DXLT424		0-4	A-F				
			54″	1-1/2″	**DXT5424**	Class A	0-4	A-F				
			5′	1-1/2″	**DXT524**	Class A	0-4	A-F				
			6′	1-1/2″	**DXT624**	Class A	0-4	A-F				
			8′	1-1/2″	**DXT824**	Class A	0-4	A-F				

		Length	Item No.
Accessories	**Strut Stabilizer**	20″	**CC1520**
		30″	**CC1530**
	Stabilizer Bar	2′	**SB24**
		4′	**SB48**
		5′	**SB60**

Physical Data/ Footnotes

HALCYON *CLIMAPLUS* Ceiling Panels:

ASTM E1264 classification
Type XII, Form 2, Pattern G

ASTM E84 surface burning characteristics
Class A
Flame spread: 25
Smoke developed: 50

Weight
0.38 lb./sq. ft. (3/4″ panels)
0.47 lb./sq. ft. (1″ panels)

Thermal resistance
R-3.3 (3/4″ panels)
R-4.4 (1″ panels)

Maximum backloading
See Warranty for details.

Maintenance
Can be cleaned easily with a soft brush or vacuum.

Suspension Systems:

Material
CENTRICITEE and DX/DXL systems: Double-web hot-dipped galvanized steel body; steel cap finished with four-step protective coating. FINELINE system: Double-web hot-dipped galvanized steel tee.

Recycled content
25%. For details, see the Sustainability selector.

Installation
Must be installed in compliance with ASTM C636, CISCA, and standard industry practices.

ICC Evaluation Service, Inc., Report Compliance
Suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in ICC-ES Evaluation Reports. Evaluation Reports are subject to reexamination, revision and possible cancellation. Please refer to USGDesignStudio.com or 800 USG.4YOU for current reports.

L.A. Research Report Compliance
DONN brand suspension systems manufactured by USG Interiors, Inc., have been reviewed and are approved by listing in one or more of the following L.A. Research Report numbers: 22179, 23451, 24095.

ASTM C635 Standard for Load Compliance
Systems described here meet or exceed UL load compliance specifications per ASTM C635. Main tees will not deflect more than 1/8″ over a 48″ span (or L/360) in Light Duty, Intermediate Duty or Heavy Duty categories.

Footnotes
1. Stabilizer bars recommended for panels 5′ and longer.
2. LR values are shown as averages.
3. For details, see the Sustainability selector.
4. For details, see *Ceiling Systems Warranties and Limitations* (SC2102) and *CLIMAPLUS Ceilings Certification of Performance* (SC2451).
5. Load test data shows uniform load in lbs./LF based on simple span tests in accordance with ASTM C635 deflection limit on L/360.
6. For detailing and module loading, request AC3003QRC.
7. Punched 3″ o.c.

Support

Technical Information

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Welcome to USG Design Studio

– Online design tool featuring BIM (Revit) content 3-D modeling.
– Specification generators.
– Integrated product and systems selectors.

Your online resource for quick and accurate specification

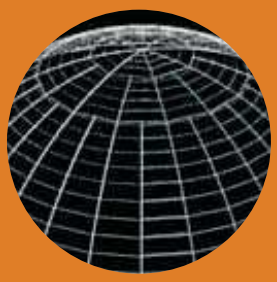
USG Design Studio is a new, free and fully accessible online resource for architects, designers, specifiers and contractors. This comprehensive web tool provides advanced capabilities and rich information to help you quickly and accurately specify the right products and systems for your interior ceilings, walls and floors. Compare options, choose selections, and make changes on the fly – with just a few clicks of a mouse. USG Design Studio features include:

1 Assembly Animations

2 Architectural Specifications

3 Performance-Rated System Selectors

4 Product and System Selectors



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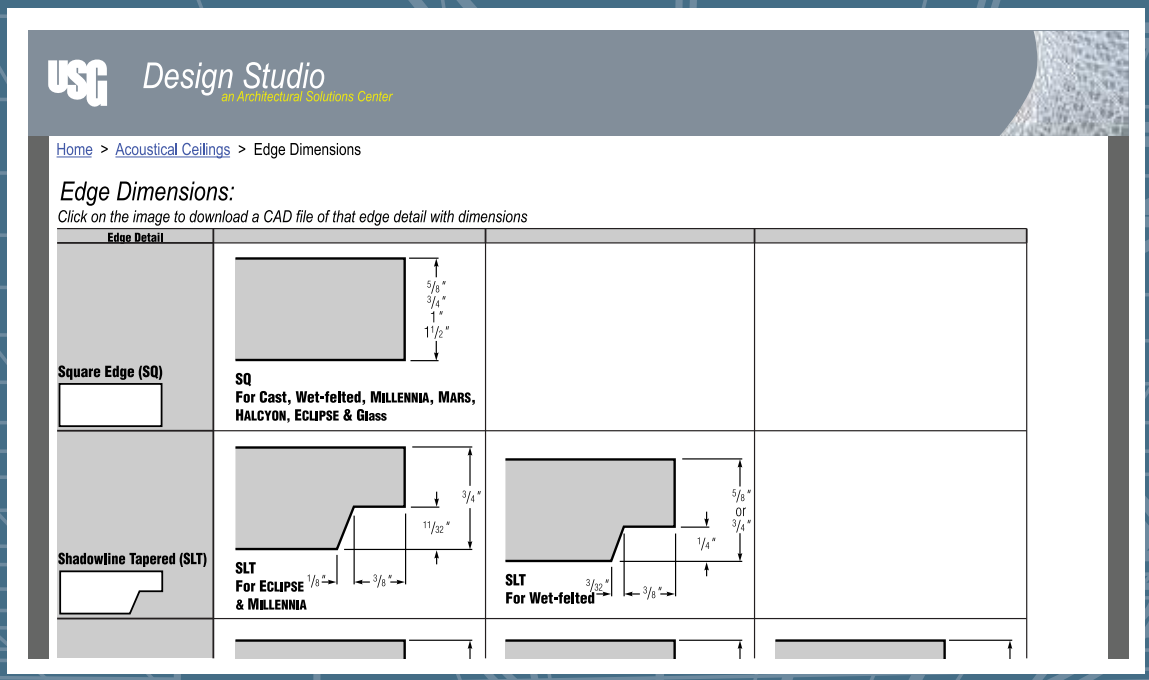
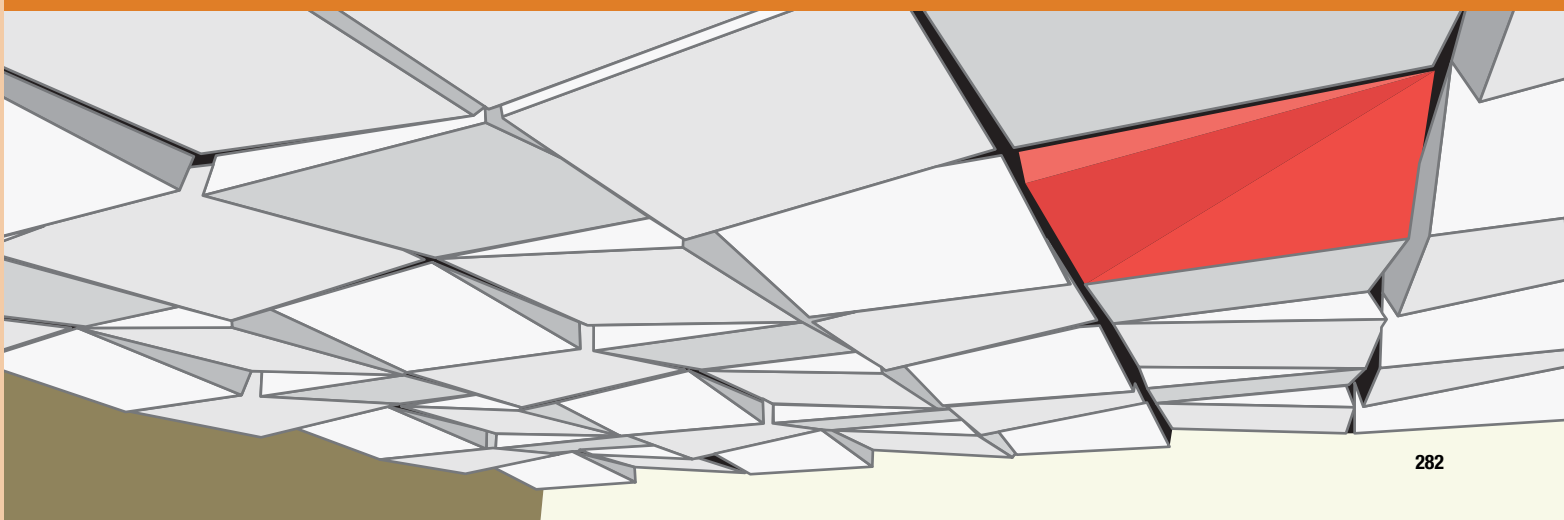


12 ft

USGDesignStudio.com

Assembly Animation



USG Design Studio Features

Begin with a system-by-system navigational path, and select your basic criteria: performance attributes or design attributes. Each brings you tools and options that, from concept to completion, provide the necessary specifications.

Assembly Animations

USG Design Studio hosts the most extensive wall and ceiling CAD library and drawing tools in the industry to help you visualize each system and how multiple systems interrelate. For firms that use **BIM design software,** specifically AutoDesk Revit Architecture, USG has developed **Revit-specific** system families and design templates, so you can change any aspect of your design – and immediately see the impact.

Architectural Specifications

Product selectors throughout the site **generate three-part MasterFormat specifications** tailored to your project needs, provided in Microsoft Word for inclusion in your submittal documents.

Performance-Rated System Selectors

Select the products, systems and assemblies based on design criteria and performance specifications. USG Design Studio even allows you to make **head-to-head comparisons** with competing products!

Product and System Selectors

Wherever you are in USG Design Studio, you always have **immediate access to USG product and data pages,** with product-specific visuals and technical information.

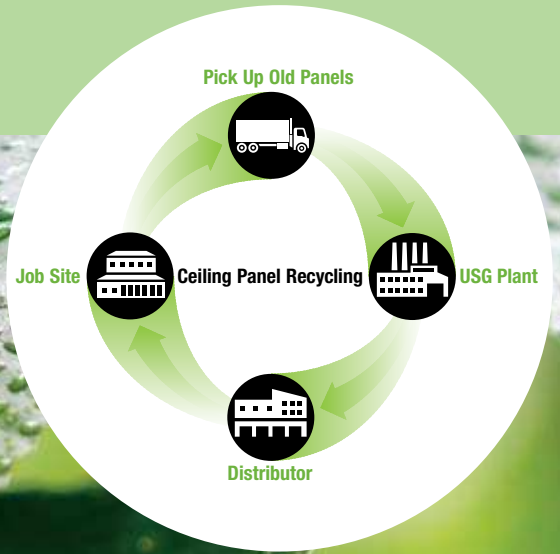
Explore USG Design Studio at USGDesignStudio.com, or ask your USG representative about a guided tour for a comprehensive look at the capabilities and functionality of this exciting new resource.

Ceiling Panel Recyling Program

Turn used ceiling panels into new building products instead of landfill

Now you can recycle your old ceiling panels and still stay on schedule and on budget. In the same time required to haul small loads of old panels to a dumpster, workers can palletize panels as they are removed. Recycling ceiling panels won't happen if it adds to the time and cost of a renovation. That's why we've designed this program to be fast, easy and cost-effective.

Call 800 USG.4YOU



Protect the environment while staying on time and on budget

Reclaiming used ceiling panels is just one part of USG's strong commitment to the environment. We've used recaptured gypsum to manufacture wallboard for more than 30 years, and we're one of the nation's top users of recycled paper. Now, you can help us extend sustainable practices to the end of the product life cycle, bringing protection of resources and the environment full circle.

First, check that your ceiling panels qualify for recycling. If you have any questions, contact your local USG representative or 800 USG.4YOU. Then, remove them as you normally would. Material must be clean, dry and approved by USG. No wood, metal or construction debris of any kind. Panels must not have come into contact with any hazardous material that requires special handling or disposal.

Acceptable for recycling: Ceiling panels manufactured by USG and other manufacturers; primarily mineral fiber ceiling products. Not acceptable: Panels from an installation where hazardous materials have been used, foil-laminate panels, fabric- or vinyl-faced panels, wet, moldy or weathered panels, wood-fiber panels, custom-colored or post-painted panels, or other panels that do not meet our manufacturing process requirements.

Next, stack the panels neatly on 4′ x 4′ shipping pallets. Double stacking is the most environmentally responsible way to ship. To do this, stack panels no higher than 4′. If you prefer to single-stack the pallets, stack the panels no higher than 6′.

1 **Place** a USG Ceiling Panel Packaging Label on two of the four pallet faces so that each is clearly visible and stays in place.
2 **Secure** the panels to pallets with stretch wrap or metal bands.
3 **Package** the material so that the pallets remain stable. All panels must be straight on pallets and secured within the trailer so that loads won't fall during transit or unloading.

Before you start to stack, make sure that your materials are acceptable, that a USG representative and the owner or owner's representative have signed the USG Recycling Contract, and that you have a pallet jack (and maybe a forklift, depending on the dock) available to move the loaded pallets.

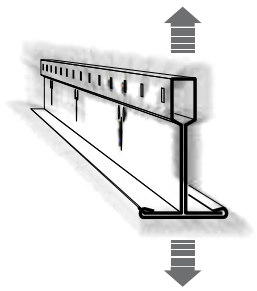
Finally, we'll pay your way, as long as you meet some simple conditions:

– you have a full truckload
– the material has been approved
– a completed contract has been signed
– you call your local USG salesperson at least five days prior to desired pickup.

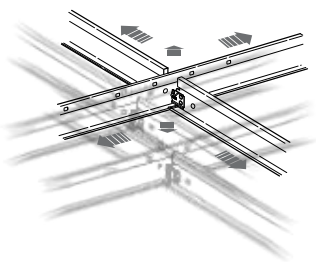
A full truckload is 30,000 square feet, with 22 pallets of 4′ x 4′ single-stacked (6′ in height) on a trailer. If you can't fill a truck, there are other options. Our goal is to prevent recyclable materials from being discarded into landfills. If you have less than a truckload, call your USG sales representative to learn about other options.

USG has a long history of supporting the development and research of seismic ceiling design and application, and we remain committed to this endeavor through product development, participation in industry associations, and supporting the evolution of building codes as new knowledge and product technologies become available.

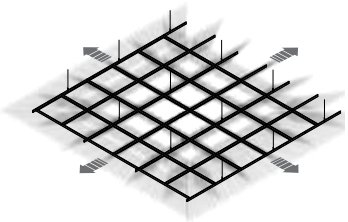
Commitment to Seismic Research and Design



DONN grid is produced with the optimal combination of shape, size, steel gauge and conncetion details to produce systems with the greatest stiffness and movement resistance.



The advanced connection details used on DONN grid are nearly double the intersection strength requirement of 180 lbs. of tension and compression for seismic construction.



Extensive seismic testing proves the advanced connection details along with the systems' optimal combination of shape, size, and steel gauge.

Why USG ceiling systems outperform seismic requirements

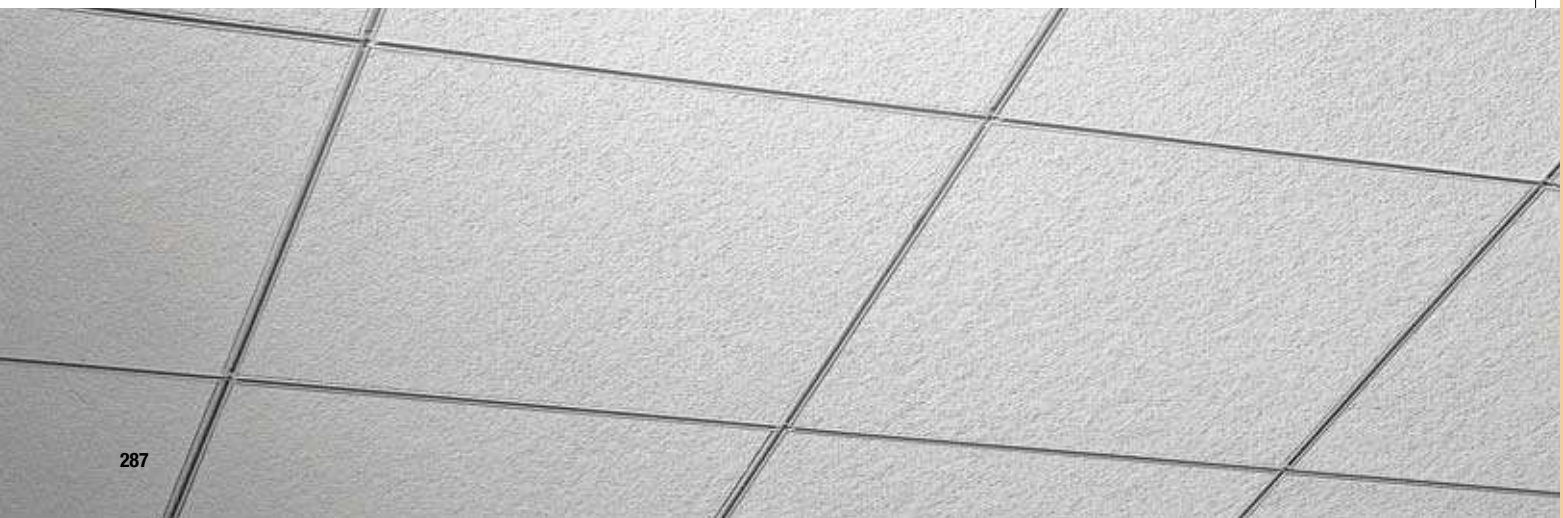
USG continues to team with the University at Buffalo (SUNY), the Department of Civil, Structural and Environmental Engineering – Structural Engineering and Earthquake Simulation Laboratory (SEESL) as well as the University of California, Berkeley, Earthquake Engineering Research Center (EERC). We are proud to commit significant resources to this ongoing endeavor.

Since 1957 DONN suspension systems have set the standard, with the optimal combination of shape, size, steel gauge and connection details to produce the tightest systems available, with the greatest lateral and torsional stiffness. For these reasons, suspension systems from USG are proven to greatly exceed the lateral forces experienced in a seismic event.

Seismic testing typically focuses on the suspension system, without minimum weight requirements for ceiling panels and no requirement to include components such as light fixtures and air handling equipment. On the job, however, the suspension system must support and carry the weight of a fully functional ceiling, including ceiling panels that can weigh up to 2 lb./sq. ft. or more.

For this reason, USG tested suspension systems with light fixtures, air handing equipment, and a wide range of USG ceiling panels. This full-scale testing certifies that USG IBC-compliant assemblies accommodate loads 39% heavier than those claimed by competing systems. As demonstrated by these superior test results, no other suspension system can match the tightness and seismic performance of USG suspension systems.

Note that the University at Buffalo and the University of California do not endorse specific products.



Environmental Statement

Visit the USG Sustainable Ceilings Resource Center at sustainableceilings.com

Integrity, dependability and innovation are the standards by which USG operates. We believe that health, safety and environmental well-being are compatible with economic health. We have a longstanding commitment to our employees, our customers and our communities to:

– Provide product and manufacturing solutions that reduce environmental impact
– Eliminate manufacturing waste at our plants
– Use recycled materials in product formulation and development

Reducing Environmental Impact

As a manufacturer, we are dedicated to safeguarding the environment. USG has a solid history of environmental responsibility and is constantly seeking environmentally sound products and manufacturing solutions.

Environmentally friendly alternatives

United States Gypsum Company's FIBEROCK® brand AQUA-TOUGH™ floor underlayment not only incorporates a patented technology that delivers outstanding performance benefits, but also offers an environmentally friendly alternative to conventional wood-based underlayments. Produced on a new manufacturing line at our Gypsum, Ohio plant, FIBEROCK underlayment is made from 100 percent recycled gypsum and 100 percent recycled cellulose fibers, recycled from scraps of cardboard box manufacturing. This plant also produces FIBEROCK® brand AQUA-TOUGH™ interior panel, tile backerboard and sheathing using the same technology.

In recognition of these achievements, United States Gypsum Company has earned independent certification from Scientific Certification Systems (SCS).

Using recaptured gypsum

Recaptured gypsum, also called synthetic gypsum, is a byproduct of several processes including flue gas desulfurization (FGD), which reduces acid rain by removing sulfur dioxide from the emissions of fossil-fuel-burning power plants. Our use of recaptured gypsum reduces the amount of this material that gets disposed in landfills. Wallboard made from recaptured gypsum offers the same properties and benefits as wallboard made from mined gypsum rock.

United States Gypsum Company has used recaptured gypsum to manufacture wallboard since 1974. Currently, we produce 24 percent (2.3 million tons per year) of our total production with recaptured gypsum cores. Nearly 50 percent of our wallboard plants use recaptured gypsum to some degree.

Eliminating Manufacturing Waste

United States Gypsum Company and USG Interiors, Inc. have used environmental control equipment since before the Clean Air Act was passed in 1969. Our plants consume clean fuels, such as low-sulfur oil and natural gas, wherever possible. Water treatment equipment installed at our paper mills and ceiling panel plants recycles water and reduces effluent discharges into municipal treatment systems.

Recycling heat

USG plants also conserve energy by recycling heat. Heat-exchange processes are used throughout our manufacturing operations to conserve energy and maximize efficiency. For example, we use heat from thermal process discharges to warm other parts of the plants.

Reusing waste

Our gypsum plants recycle plant waste back into the manufacturing process. U.S. Gypsum wallboard plants have a 95 percent recovery rate, and part of the remaining 5 percent is repurposed as protective material to support stacks of gypsum panels. Ceiling panels that are chipped or broken during manufacturing are also recycled and then returned to the process.

Using Recycled Materials		The foundation of United States Gypsum Company is built on gypsum rock, which we complement with alternative resources, such as recycled industrial material, post-consumer waste and renewable agricultural sources. Incorporating these alternatives helps to preserve natural resources, support clean air and ease disposal problems for public utilities and other companies.
	Reusing byproducts	– United States Gypsum Company has used recaptured gypsum to manufacture wallboard for more than 25 years. (See recaptured gypsum section for more information.) – United States Gypsum Company uses fly ash, a byproduct of coal-fired utility plants, in the core of its cement board products. Lignin sulfonate, a byproduct from the paper industry, is also part of the formulation for gypsum wallboard. – USG Interiors, Inc. uses slag, a byproduct of steel manufacturing, in manufacturing mineral wool for acoustical ceiling panels. – USG Interiors, Inc. and U.S. Gypsum use post-industrial wastepaper for its acoustical ceiling panels and wallboard products.
	Reusing discarded material	– Since the 1960s, United States Gypsum Company has made its own wallboard paper from 100 percent recycled paper including newspapers, phone books, corrugated cartons and cardboard cuttings. – USG Interiors, Inc. grid can be recycled completely by remelting and salvaging the metal. Twenty-five percent of the material used in our steel fabrication plants is recycled. We also use waste newspaper to manufacture acoustical ceiling panels.
	Reusing renewable agricultural sources	– Our plants use corn and wheat starches as binders in the manufacture of drywall and ceiling products. – These agricultural sources can be harvested and replanted in a continuous cycle of renewal.
Leadership		USG supports environmental initiatives and is involved with a variety of environmental organizations.
	U.S. Green Building Council	In 1993, USG helped establish the U.S. Green Building Council (USGBC), a diverse coalition of principal groups involved in the building industry. The council's mission is to promote buildings that are environmentally responsible, profitable and healthy places to live and work.
	LEED Program	Developed by the USGBC, the Leadership in Energy and Environmental Design (LEED) program created a building rating system to evaluate environmental performance from a "whole building" perspective, providing a standard for "green building." Credits are earned for satisfying specific building criteria. USG endorses this program by contributing environmentally sound products that help a builder earn credits toward a green building.
	National Association of Home Builders	USG is involved in construction recycling demonstration projects with the National Association of Home Builders (NAHB).

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22111	Radar *ClimaPlus* High-NRC	182	**86785**	Mars *ClimaPlus*	160
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Packaging Information

The following are packaging quantities and details for USG acoustical ceilings panels.

Product Name	Item Number	Weight/ Carton	Pieces/ Carton	Sq. Ft./ Carton	Ctns/ Pallet
Aspen	650	54	12	48	20
	651	54	6	48	20
	652	54	6	48	20
Astro *ClimaPlus*	8221	60	16	64	16
	8122	55	12	48	20
	8223	60	16	64	16
	8227	60	16	64	16
	8241	60	8	64	18
	8243	58	8	64	18
	8247	61	8	64	18
	8322	60	12	48	20
	8722	57	12	48	20
	8742	59	6	48	20
	8744	59	6	48	20
Brio *ClimaPlus*	308	48	8	32	28
	309	49	8	32	28
Clean Room *ClimaPlus*	56060	72	16	64	16
	56090	72	8	64	18
	56091	72	8	64	18
	56099	72	16	64	16
Eclipse *ClimaPlus*	70073	45	40	40	18
	76575	49	12	48	20
	ME76775	49	12	46.5	20
	76775	49	12	48	20
	76779	57	12	48	20
	ME76975	49	12	46.5	16
	76975	49	12	48	20
	76979	54	12	48	20
	78575	49	6	48	20
	78775	49	6	48	20
	78975	49	6	48	20
Eclipse *ClimaPlus* Illusion and Pedestals	78785	49	6	48	20
	72015	55	12	48	20
	72215	55	12	48	20
	72715	55	12	48	20
	72716	55	12	48	20
	78085	49	6	48	20

Product Name	Item Number	Weight/ Carton	Pieces/ Carton	Sq. Ft./ Carton	Ctns/ Pallet
"F" Fissured	101	75	48	48	32
	102	75	48	48	32
	131	50	8	32	28
	132	49	8	32	28
	133	49	8	32	28
	135	72	6	48	16
	136	72	6	48	16
Fissured	506	43	16	64	20
	507	43	8	64	20
	560	42	16	64	20
	562	42	8	64	20
	585	65	16	64	16
	586	65	8	64	18
Fresco *ClimaPlus*	608	48	8	32	28
	609	49	8	32	28
Frost *ClimaPlus*	414	48	8	32	28
	418	49	8	32	28
	419	49	8	32	28
Frost	400	48	8	32	28
	415	49	8	32	28
	440	48	8	32	28
	450	71	6	48	16
	460	71	6	48	16
Frost *ClimaPlus* High LR	490	48	8	32	28
	491	49	8	32	28
Glacier	701	70	44	44	32
	707	42	8	32	28
	708	43	8	32	28
	711	66	6	48	16
	715	44	8	32	28

Packaging Information

The following are packaging quantities and details for USG acoustical ceilings panels.

Product Name	Item Number	Weight/ Carton	Pieces/ Carton	Sq. Ft./ Carton	Ctns/ Pallet
Halcyon *ClimaPlus*	88221	24	12	48	28
	88223	47	12	96	14
	88224	46	8	64	14
	88225	24	12	48	28
	88226	47	12	96	14
	88227	24	12	48	28
	97221	25	16	64	28
	97241	49	16	128	14
	98221	23	12	48	28
	98223	23	12	48	28
	98225	23	12	48	28
	98241	45	12	96	14
	98243	45	12	96	14
	98245	45	12	96	14
	98331	35	12	75	14
	98333	35	12	75	14
	98335	35	12	75	14
	99221	22	8	32	28
	99223	22	8	32	28
	99225	22	8	32	28
	99241	44	8	64	14
Halycon *ClimaPlus* Planks	97262	56	16	192	14
	97263	100	16	256	14
	98197	92	12	192	14
	98348	69	12	144	14
	99268	69	12	144	14
	99269	92	12	192	14
Halycon *ClimaPlus* Large Sizes	98441	90	12	192	7
	98443	90	12	192	7
	98445	90	12	192	7
	98481	60	4	128	28
Halycon *ClimaPlus* Logix Channel Panels	97227	44	48	96	14
	97228	55	48	120	14
	98198	46	48	96	14
	98199	58	48	120	14
	99271	46	48	96	14
	99272	58	48	120	14
Halycon *ClimaPlus* Logix Field Panels	97266	72	12	150	14
	97333	33	12	68	14
	98194	48	12	100	14
	98195	20	12	42	28
	98196	46	12	84	14
	98261	48	12	100	14
	98336	72	12	150	14
	98343	81	12	168	14
	98359	65	12	135	14
	98360	43	12	90	14
	99267	48	12	100	14
	99270	72	12	150	14

Product Name	Item Number	Weight/ Carton	Pieces/ Carton	Sq. Ft./ Carton	Ctns/ Pallet
Mars *ClimaPlus*	86185	51	12	48	20
	86785	51	12	48	20
	86830	45	6	37.5	20
	86985	51	12	48	20
	88185	51	6	48	20
	88785	51	6	48	20
	88985	51	6	48	20
Mars *ClimaPlus* High-NRC	86100	59	10	40	20
	86300	59	6	48	20
	86400	45	6	37.5	20
	86500	45	6	37.5	20
	87100	59	10	40	20
	87200	59	10	40	20
	89500	59	6	48	20
	89600	59	6	48	20
Millennia *ClimaPlus*	70003	51	40	40	18
	76505	51	12	48	20
	76705	51	12	48	20
	76901	51	6	48	20
	76907	51	12	48	20
	78505	51	6	48	20
	78705	51	6	48	20
Millennia *ClimaPlus* Illusion	78080	48	6	48	20
	78780	49	6	48	20
Millennia *ClimaPlus* High-NRC	76201	51	12	48	20
	76302	50	12	48	20
Olympia Micro *ClimaPlus*	4211	64	16	64	20
	4221	64	16	64	20
	4231	64	16	64	20
	4411	64	8	64	20
	4421	64	8	64	20
	4431	64	8	64	20
	4742	64	6	48	20
Pebbled *ClimaPlus*	4800	56	8	64	20
	4801	56	16	64	20
	4805	55	16	64	20
	4867	56	8	64	20
Premier Hi-Lite *ClimaPlus*	7050G	35	32	128	18
	7051G	35	16	128	18
	7054G	35	32	128	18
	7055G	35	16	128	18
	7052G	35	32	128	18
	7053G	35	16	128	18
	7056G	35	32	128	18
	7057G	35	16	128	18

Product Name	Item Number	Weight/ Carton	Pieces/ Carton	Sq. Ft./ Carton	Ctns/ Pallet
Premier Nubby *ClimaPlus*	7000G	35	32	128	14
	7002G	35	24	96	14
	7003G	35	12	96	14
	7012G	37	24	96	14
	7013G	37	12	96	14
Radar	2110	42	16	64	20
	ME2110	42	16	62	16
	2115	74	16	64	16
	ME2120	46	16	64	20
	2120	46	16	62	16
	2121	46	12	48	20
	2125	74	16	64	16
	2130	46	16	64	16
	2310	42	8	64	20
	ME2310	42	8	62	18
	2311	46	6	48	20
	2315	74	8	64	18
	2320	42	8	64	20
	2617	43	8	67	20
	2618	85	6	75	10
	2619	53	8	80	20
	2990	54	48	48	18
Radar Illusion	2742	46	6	48	20
Radar *ClimaPlus* High-NRC	22111	58	12	48	20
	22121	58	12	48	20
	22127	58	12	48	20
	22310	73/75	8	64	18
	22311	58	6	48	20
Radar Ceramic *ClimaPlus*	56644	79	12	48	20
	56645	79	6	48	20
Radar *ClimaPlus*	2210	46	16	64	20
	2215	74	16	64	16
	2220	48	16	64	20
	ME2220	48	16	62	16
	2225	75	16	64	16
	2230	48	16	64	20
	2410	46	8	64	20
	2410P	46	8	64	20
	ME2410	46	8	62	18
	2415	74	8	64	18
	2420	48	8	64	18
	2425	75	8	64	18
	2570	57	48	48	18

Product Name	Item Number	Weight/ Carton	Pieces/ Carton	Sq. Ft./ Carton	Ctns/ Pallet
Radar *ClimaPlus* High-Durability	2207	48	16	64	16
	2227	48	16	64	16
	2407	46	8	64	18
Radar *ClimaPlus* Illusion	2842	46	6	48	20
	2844	46	6	48	20
	2846	46	6	48	20
	2852	46	6	48	20
	2854	46	6	48	20
	2856	46	6	48	20
	2862	46	6	48	20
	2864	46	6	48	20
	2866	46	6	48	20
	2882	46	6	48	20
	2884	46	6	48	20
	2886	46	6	48	20
Rock Face *ClimaPlus*	55483	71	12	48	20
	56335	82	12	48	20
	56380	82	6	48	20
Sandrift *ClimaPlus*	808	48	8	32	28
	809	49	8	32	28
Sandrift	815	49	8	32	28
Sheetrock Lay-In Ceiling Panel *ClimaPlus*	3200	67	4	32	32
	3260	33	4	16	92
	3270	67	4	32	46
Summit *ClimaPlus*	990	42	6	24	32
	991	43	6	24	32
Touchstone *ClimaPlus*	5893	65	12	48	20
	5894	65	6	48	20
	5896	65	12	48	20
	5899	65	12	48	20

Acoustical Ceilings

Manufacturer's Guide Specifications

Section 09511– Acoustical Panel Ceilings

1: General

1.01 Description of Work

A. Related work specified elsewhere:
1. Insulation:-Section _____.
2. Mechanical equipment: Section _____.
3. Electrical:-Section _____.
4. Gypsum board systems:-Section _____.
5. Ceiling suspension systems:-Section _____.

B. Work installed but furnished under other sections (include applicable requirements):
Sound masking systems
Section 16727
(Contact Lencore Acoustics for a complete specification)

C. Work furnished but installed under other sections: (include applicable requirements):

1.02 System Description

Standard Panels:-Suspended (New Fire-Rated) ceiling system consisting of acoustical panel ceiling suspension system. System shall be rated NRC ( ) in accordance with ASTM C423 and CAC ( ) in accordance with ASTM test method E1414 and classification E413 as tested by an independent agency.
FIRECODE™ formulation panels: Suspended (non-fire-rated) (fire-rated) ceiling system consisting of acoustical panel ceiling suspension system. System shall be rated NRC ( ) in accordance with ASTM C423 and CAC ( ) in accordance with ASTM test method E1414 and classification E413 as tested or witnessed by an independent agency.
CAC: Ceiling Attenuation Class.
LR: Light Reflectance coefficient.
NRC: Noise Reduction Coefficient.
Recycled Content: Average percentage based on weight of component materials. Material recovered or diverted from the solid waste stream, either during the manufacturing process (pre-consumer) or after consumer use (post-consumer).
Sound Masking: Ceiling system to (include) (not include) Lencore sound masking with appropriate system customization to accommodate zoned masking and/or paging. (See Sound Masking System, section 16727.)

1.03 Delivery and Storage of Materials

A. All materials shall be delivered in their original unopened packages and stored in an enclosed shelter providing protection from damage and exposure to the elements.

B. Storage time of materials at the jobsite should be as short as possible, and environmental conditions should be as near as possible to those specified for occupancy (see no. 1.04 below). Excess humidity during storage can cause expansion of material and possible warp, sag, or poor fit after installation. Chemical changes in the mat and/or coatings can be aggravated by excess humidity and cause discoloration during storage, even in unopened cartons. Cartons should be removed from pallets and stringers to prevent distortion of material. Long-term (6-12 months) storage under uncontrolled environmental conditions should be avoided.

C. Damaged or deteriorated materials should be removed from the premises. Immediately before installation, to stabilize tile and panels, store them at a location where temperature and humidity conditions duplicate those ambient during installation and anticipated for occupancy.

1.04 Environmental Conditions

A. Installation of acoustical panels shall not begin until building is enclosed, permanent heating and cooling equipment is in operation, and residual moisture from plaster, concrete, or terrazzo work has dissipated.

B. Do not use ceiling panels in extreme or continuous high humidity, or areas exposed directly to weather or water. Ceiling panels are sized and designed for use within the standard occupancy range of temperature and humidity, 65-85 °F (18-29 °C), no more than 70% RH (relative humidity). Humidity can greatly affect product dimensional stability and sag resistance. Sag can become noticeable during periods of high humidity lasting only a few hours. *CLIMAPLUS* ceilings, if used with DONN® brand suspension systems, can withstand temperatures up to 90-104 °F (32-40 °C) and relative humidity 95%-100% RH. See USG Interiors Inc. for standard Warranty information.

C. Allow time for dimensional changes in ceiling panels stored at temperature/humidity conditions well outside of those recommended for service. With increases in temperature/humidity, these products expand (up to 1/64 in./ft. (4.3 mm/m) at 85 °F (29 °C)/90% RH) and may not fit into a fixed grid. Conversely, with decreases,

these products will be undersize, but expand to normal when standard ambient conditions return.

D. For some pattern edge details, if perimeter panels must be cut smaller, the cut edge must be field-rabbetted, or the wall angle must be lowered by (1/4″) (3/8″) (Reveal Depth).

1.05 Quality Assurance

A. Single Source Responsibility: To obtain Lifetime ceiling system warranty, 30-year ceiling system warranty, color match or ceiling panel and suspension system compatibility, all acoustical panel and suspension system components shall be produced and supplied by one manufacturer. Materials supplied by more than one manufacturer are not acceptable.

B. Subcontractor qualifications: Installer shall have successful experience in the installation of suspended ceiling systems on projects with requirements similar to requirements specified.

C. Requirements of regulatory agencies: Codes and regulations of authorities having jurisdiction.

D. Source quality control:

1. Test reports: Manufacturer will provide test certification for minimum requirements as tested in accordance with applicable industry standards and/or to meet performance standards specified by various agencies.

2. Changes from system: System performance following any substitution of materials or change in assembly design must be certified by the manufacturer.

1.06 Reference

A. ASTM C635 and C636: Manufacturing of metal suspension systems and Installation of Suspended Ceilings.

B. Underwriters Laboratories, Inc.: Fire Resistance Directory, Acoustical Materials (BYIT).

C. ASTM E84: Surface Burning Characteristics Classification.

D. ASTM E119: Fire Tests of Building Construction and Materials.

E. ASTM C423: Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.

F. CISCA Ceiling Systems Installation Handbook.

G. ASTM E1414: For CAC Testing

1.07 Submittals

A. Samples: Submit representative sample of color and finish of all exposed materials.

B. Shop drawings:

1. Reflected ceiling plans: Contractors shall submit a layout arrangement of ceiling design, dimensions and locations of related integrated lighting and air distribution components.

2. Installation drawings: Detail complete installation including suspension system, installation of related lighting and air distribution components, access requirements, sound absorption requirements, and fire rating requirements when applicable.

3. Manufacturer's data: Submit manufacturer's catalog cuts or standard drawings showing details of system with project conditions clearly identified and manufacturer's recommended installation instructions.

4. Maintenance materials: Submit ____(one) percent of amount of ceiling components installed.

C. Warranty: Manufacturer's standard warranty for extent of conditions allowable and duration of warranty.

D. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each acoustical panel ceiling and suspension system.

1. UL Acoustical Compliance: For acoustical performance, each carton of material must carry Underwriters Laboratories certification for CAC and NRC.

2. UL Suspension System Load Compliance: Manufacturer must certify that the metal suspension system is UL Classified to be load compliant per ASTM C635. For load compliance, each carton of main tees must carry Underwriters Laboratories certification for load compliance.

Acoustical Ceilings

Manufacturer's Guide Specifications

1.08 Project Conditions

A. Existing conditions: (include specific alteration work requirements for project).

B. Environmental requirements for interior installation: Building shall be enclosed with windows and exterior doors in place and glazed, and roof watertight before installation of ceiling system and related ceiling components. Climatic condition range of 60-85 °F (16-29 °C) with a max 70% RH.

C. Coordination with other work:

1. Mechanical work: Ductwork above ceiling shall be complete, and permanent heating and cooling systems operating to climate conditions prior to installation of ceiling components.

2. Electrical work: Installation of conduit above ceiling shall be complete before installation of ceiling components.

3. Fire protection work: Fire protection lines and/or equipment occurring above ceiling shall be completed and tested before ceiling components are installed.

D. Protection: Protect completed work above ceiling system from damage during installation of ceiling components.

2: Products

2.01 Inspection

A. Ceiling panels as manufactured by USG Interiors, Inc., Ceilings Division, Chicago, Illinois, U.S.A.

B. Sound masking, as manufactured by Lencore Acoustics Corp., Woodbury, New York, U.S.A.[1]

C. Fill in the following information for the product you want to specify (see Color Selector, SC1859, for color numbers):

Pattern Name	Item No.	Color No.	Plastic Coating[2]	Sound Masking
			Yes/No	Yes/No

[1] See sound masking specification at www.lencore.com

[2] Plastic coating only available on certain panels. See product literature or sales representative.

3: Execution

3.01 Inspection

A. Examine areas to receive ceiling panels for conditions that will adversely affect installation. Provide written report of discrepancies.

B. Do not start work until unsatisfactory conditions are corrected.

C. Work to be concealed: Verify work above ceiling is complete and installed in manner that will not affect layout and installation of ceiling panels.

D. Beginning of installation shall signify acceptance of conditions in areas to receive ceiling panels.

E. Fire-rating requirements: Construction above fire-rated assembly shall meet requirements of UL Design specified in *2: Products.*

3.02 Preparation

A. Field dimensions must be verified prior to installation.

3.03 Installation

A. Standard reference: Install ceiling panels and suspension system, including necessary hangers, grillage, splines, and other supporting hardware, in accordance with ASTM C636, CISCA Installation Syds., (UL Design) and any applicable code requirement.

B. Manufacturer's reference: Install ceiling panels in exposed grid systems, supported on all edges, in accordance with manufacturer's current printed recommendations.

C. Drawing reference: Install ceiling panels in accordance with approved shop drawings.

3.04 Maintenance

A. Cleaning: Panels can be cleaned easily with a soft brush, vacuum, or dry chemical sponge.

B. Repainting: Spray a thinned, nonbridging vinyl-acrylic flat wall paint. The type of paint selected and the method of application can alter the acoustical performance and fire ratings of any acoustical product. Therefore, USG Interiors, Inc. cannot guarantee that the field-painted panels will match the published performance.

Suspension Systems

Manufacturer's Guide Specifications

Section 09511– Acoustical Panel Ceilings

1: General

1.01 Related Work

- **A.** Related work specified elsewhere:
  - **1.** Gypsum Board Systems: Section _____.
  - **2.** Acoustical Ceilings: Section _____.
  - **3.** Integrated Assemblies: Section _____.
  - **4.** Air Handling: Section _____.
  - **5.** Lighting: Section _____.
- **B.** Work installed but furnished under other sections: (Include applicable requirements.)
- **C.** Work furnished but installed under other sections: (Include applicable requirements.)

1.02 System Description

- **A.** Suspended ceiling system consisting of main tees and cross tees snapped together to form modules for the installation of lay-in acoustical panels, air diffusers, and light fixtures.
- **B.** Design and size components to withstand seismic loads in accordance with the International Building Code, Section 1621 for Category D,E, and F.

1.03 Quality Assurance

- **A.** ASCE 7 Standard - American Society of Civil Engineers, Minimum Design Loads for Buildings and Other Structures.
- **B.** ASTM C635, Standard Specifications For Metal Suspension Systems For Acoustical Tile And Lay-In Panel Ceilings.
- **C.** ASTM C636, Recommended Practice For Installation Of Metal Suspension System For Acoustical Tile And Lay-In Panels.
- **D.** ASTM E119, Standard Methods of Fire Tests of Building Construction and Materials.
- **E.** CISCA Ceiling Systems Installation Handbook.
- **F.** CISCA Seismic Zones 0 & 2 - Ceilings and Interior Systems Construction Association Guidelines for Seismic Restraint for Direct Hung Suspended Ceiling Assemblies
- **G.** CISCA Seismic Zones 3 & 4 - Ceilings and Interior Systems Construction Association Guidelines for Seismic Restraint for Direct Hung Suspended Ceiling Assemblies
- **H.** International Code Council-Evaluation Services - AC 156 Acceptance Criteria for Seismic Qualification Testing of Non-structural Components
- **I.** Underwriters Laboratories, Inc. (UL): Fire Resistance Directory—listing and classification.

1.04 References

- **A.** ASTM C635, Standard Specifications For Metal Suspension Systems For Acoustical Tile And Lay-In Panel Ceilings.
- **B.** ASTM C636, Recommended Practice For Installation Of Metal Suspension System For Acoustical Tile And Lay-In Panels.
- **C.** ASTM E119, Standard Methods of Fire Tests of Building Construction and Materials.
- **D.** CISCA Ceiling Systems Installation Handbook.
- **E.** Underwriters Laboratories, Inc. (UL): Fire Resistance Directory—listing and classification.

1.05 Submittals

- **A.** Samples: Submit data for suspension system main tees and cross tees for acceptance.
- **B.** Shop drawings:
  - **1.** Reflected ceiling plans: Contractor shall submit ceiling suspension system layout to indicate ceiling modules and related lighting and mechanical systems.
  - **2.** Assembly drawings: Indicate module dimensions, accessory attachments, and installation of integrated systems components.
- **C.** Manufacturer's Data: Submit manufacturer's catalog cuts or standard drawings showing details of system with project conditions clearly identified, and manufacturer's recommended installation instructions.
  - **1.** System details: Submit manufacturer's descriptive literature or standard drawings showing details of system with project conditions clearly identified, and manufacturer's recommended installation instructions.
  - **2.** Color chart: Submit manufacturer's standard color chart for selection of color.
- **D.** Maintenance Materials: Provide _____ percent of amount of main tees and cross tees installed.

Suspension Systems

Manufacturer's Guide Specifications

E. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each acoustical panel ceiling and suspension system.

1. UL Acoustical Compliance: For acoustical performance, each carton of material must carry Underwriters Laboratories certification for AC (if applicable), CAC and NRC.

2. UL Suspension System Load Compliance: Manufacturer must certify that the metal suspension system is UL Classified to be load compliant per ASTM C635. For load compliance, each carton of main tees must carry Underwriters Laboratories certification for load compliance.

1.06 Delivery, Storage and Handling

A. Delivery of materials: Deliver materials in original, unopened packages clearly labeled with manufacturer's name, item description, part number, type, and class, as applicable.

B. Storage: Store in manner that will prevent warpage, scratches, or damage of any kind.

C. Handling: Handle in such manner to ensure against racking, distortion, or physical damage of any kind.

1.07 Project Conditions

A. Existing conditions: (Include specific alteration work requirements for the project.)

B. Environmental requirements:

1. Building conditions: Building shall be enclosed with all windows and exterior doors in place and glazed, and the roof watertight before installation of suspension system.

2. Interior temperature/humidity in building: Climatic conditions in areas to receive ceiling suspension systems shall range from 60 °F to 104 °F and relative humidity of not more than 90% shall be maintained before installation of components.

C. Coordination with other work:

1. General: Coordinate with other work supported by or penetrating through the ceiling, including mechanical and electrical work and partition systems.

2. Mechanical work: Ductwork above suspension system shall be complete, and permanent heating and cooling systems operating.

3. Electrical work: Installation of conduit above suspension system shall be complete before installation of suspension system.

D. Protection:

1. Personnel: Follow good safety and industrial hygiene practices during handling and installing of all products and systems, with personnel to take necessary precautions and wear appropriate personal protective equipment as needed. Read material safety data sheets and related literature for important information on products before installation. Contractor to be solely responsible for all personal safety issues during and subsequent to installation; architect, specifier, owner, and manufacturer will rely on contractor's performance in such regard.

2. Existing completed work: Protect completed work above suspension system from damage during installation of suspension system components.

1.08 Warranty

A. The warranty period for a DONN® Brand Suspension System is 10 years.

B. A lifetime warranty is offered for DONN Brand Suspension Systems when used with USG tiles or panels. (A lifetime is defined as 30 years).

2: Products

2.01 Manufacturer

A. Metal ceiling suspension system as manufactured by USG Interiors, Inc., Chicago, IL, U.S.A.

B. Fill in the following information for the product you want to specify:

Suspension Name	Item No.	Color

Manufacturer's Guide Specifications

3: Execution

3.01 Inspection

- **A.** Examine areas to receive materials for conditions that will adversely affect installation. Provide written report of discrepancies.
- **B.** Do not start work until unsatisfactory conditions are corrected.
- **C.** Work to be concealed: Verify work above ceiling suspension system is complete and installed in manner that will not affect layout and installation of suspension system components.
- **D.** Beginning of installation shall signify acceptance of conditions in areas to receive ceiling suspension system.

3.02 Installation

- **A.** Field dimensions: Installer must verify actual field dimensions prior to installation.

3.03 Preparation

- **A.** Standard reference: Install in accordance with ASTM C636, CISCA installation standards, UL fire-rating classification, and any other applicable national or local code requirements.
- **B.** Manufacturer's reference: Install in accordance with manufacturer's current publications.
- **C.** Hanger wires:
  1. Spacing: Space hanger wires on main tees a maximum of 48″ or 60″ (1200 or 1500 mm) o.c. attaching hangers directly to structure above. A hanger wire shall occur directly adjacent to the fire expansion notch on every main tee, and as required per design requirements.
  2. Limitations: Do not support wires from mechanical and/or electrical equipment, piping, or other equipment occurring above ceiling.
  3. Fixtures at ceiling: Provide additional hanger wires where lighting fixtures and/or air supply and return units occur in ceiling.
- **D.** Allowable tolerances: Per ASTM C636.
- **E.** Hold-down clips: Install hold-down clips when FIRECODE™ formulation panels weigh less than 1.0 lb./sq. ft. (4.5 kg/m^2)

3.04 Maintenance

- **A.** Cleaning: Remove panel material and perform any necessary cleaning maintenance with nonsolvent-based commercial cleaner.
- **B.** Immediately remove any corrosive substances or chemicals that would attack painted finishes (e.g., wallpaper adhesives).
- **C.** Touch up all minor scratches and spots, as acceptable, or replace damaged sections when touch-up is not permitted.
- **D.** Painting: Repainting of suspension members shall be with a high-quality solvent-based paint and applied as recommended by paint manufacturer.
- **E.** Removal of debris: Remove all debris resulting from work of this section.

Standard Seismic Applications

For lay-in acoustical panels and direct-hung acoustical tiles visit the USG Seismic Ceilings Resource Center at www.seismiceilings.com

		IBC Category C[1]	IBC Category D, E, F[2]	UBC 25-2
Basic Connections, Perimeter, and Lateral Splay Bracing	Minimum intersection strength limits @ MT / CT[3]	60 lbs	180 lbs	180 lbs
	Vertical hanger wire 12-gauge @ 4′ o.c.	Required	Required	Required
	Connection device from vertical wire to the structure above must sustain min 100 lbs	Not required	Required	Required
	Main-tee classifications[4]	Intermediate- or heavy-duty	Heavy-duty	Intermediate- or heavy-duty[4]
	1 in 6 max plumb of vertical hanger wires	Required	Required	Required
	Perimeter vertical hanger wires not more than 8″ from wall	Not required unless molding < 7/8″	Required	Required
	Grid end/wall clearance	Min 3/8″	Min 3/4″	Some clearance on two non-attached walls, if applicable
	Perimeter closure (molding) width	Min 7/8″ (or use perimeter wires)	Min 2″	Min 7/8″
	Grid connection to perimeter attached on two adjacent walls	Not permitted	Required	Optional
	Perimeter tee ends tied together at perimeters	Required	Required	Required
	Horizontal restraint (splay wires or rigid bracing) within 2″ of intersection and splayed 90° apart at 45° angles	Not required	Required[5,6]	Required[6,7]
	Compression posts (struts) 12′ o.c. in both directions, starting 6′ from walls	Not required	Required[5,6]	Required[6,7]
	Splay bracing connection strength 200 lbs or the design load, whichever is greater	Not required	Required	Required
	Partition attachment	Allowed only if ceiling is able to move laterally	Bracing independent of ceiling splay bracing	Allowed with bracing
	Seismic separation joint	Not required (or full height partition)[8]	Required for areas > 2,500 sq. ft.	Not required
	Rigid bracing for ceiling plane elevation changes	Not required	Required	Not required
Light Fixture Attachment	Light fixture (all types) mechanically attached Required to grid per NEC 410-16 (two per fixture unless independently supported)	Required	Required[8]	
	– Surface-mounted fixtures attached to grid	Not required	Not required	Required (including safety wires to vertical wire or structure)[8]
	– Pendant-hung fixtures directly supported from structure with 9-gauge wire (or approved alternative)	Required	Required	Required
	– Rigid lay-in or can light fixtures			
	< 10 lbs – one wire to structure (may be slack)	Required	Required	Lower limit is 20 lbs.
	10 to 56 lbs – two wires from housing to structure (may be slack)	Required	Required	Required – lower limit is 20 lbs.
	> 56 lbs – supported directly to structure by approved hangers	Required	Required	Required
Service Applications	Air terminals			
	< 20 lbs – positively attached to grid	Required	Required	Required
	20 to 56 lbs – positively attached to grid and two 12-gauge wires to structure (may be slack)	Required	Required	Required
	> 56 lbs – directly supported to structure	Required	Required	Required
	Sprinkler heads and other penetration clearance	Min 3/8″ on all sides	Min 2″ dia. opening or a swing joint	Not required
	Cable trays and electrical conduit independently supported and braced	Not required	Required	Not required

Notes

The above information is correct to the best of our knowledge at the date of issuance. Because codes continue to evolve, check with a local official prior to designing and installing a ceiling system. This is only intended as a quick reference. A thorough understanding of IBC 2006 and UBC 25-2 is necessary when designing and installing ceiling suspension systems.

1. Refers to CISCA installation recommendations for zones 0-2 via ASCE 7-02. Max ceiling weight: 2.5 psf.
2. Refers to CISCA installation recommendations for zones 3-4 via ASCE 7-02.
3. All USG Donn® brand ceiling suspension systems meet these requirements.
4. Per ASTM C635.
5. Required for ceilings larger than 1,000 square feet.
6. Where substantiating design calculations are not provided.
7. Seismic standards generally apply to ceilings larger than 144 square feet.
8. When intermediate-duty systems are used, No. 12-gauge hanger wires shall be attached to the suspension members within three inches of each corner of each fixture.
9. Please refer to AC3235 for more information.

Alternate Seismic Solutions

		IBC Category D, E, F (Alternate Method)[9]	IBC Category C (Alternate Method)[9]
Basic Connections, Perimeter, and Lateral Splay Bracing	Minimum intersection strength limits @ MT / CT[3]	180 lbs	60 lbs
	Vertical hanger wire 12-gauge @ 4′ o.c.	Required	Required
	Connection device from vertical wire to the structure above must sustain min 100 lbs	Required	Not required
	Main-tee classifications[4]	Intermediate or Heavy Duty	Intermediate or Heavy Duty
	1 in 6 max plumb of vertical hanger wires	Required	Required
	Perimeter vertical hanger wires not more than 8″ from wall	Not required	Not required
	Grid end/wall clearance	Min. 3/4″	Min. 3/8″
	Perimeter closure (molding) width	Min. 7/8″	Min. 7/8″
	Grid connection to perimeter attached on two adjacent walls	Required	Permitted
	Perimeter tee ends tied together at perimeters	Required (ACM7 Clip)	Required (ACM7 Clip)
	Horizontal restraint (splay wires or rigid bracing) within 2″ of intersection and splayed 90° apart at 45° angles	Required[5, 6]	Not required
	Compression posts (struts) 12′ o.c. in both directions, starting 6′ from walls	Required[5, 6]	Not required
	Splay bracing connection strength 200 lbs or the design load, whichever is greater	Required	Not required
	Partition attachment	Bracing independent of ceiling splay bracing	Allowed only if ceiling is able to move laterally
	Seismic separation joint	Required for areas >2,500 sq. ft. (or full height partition)[6]	Not required
	Rigid bracing for ceiling plane elevation changes	Required	Not required
Light-Fixture Attachment	Light fixture (all types) mechanically attached Required to grid per NEC 410-16 (two per fixture unless independently supported)	Required	Required
	– Surface-mounted fixtures attached to grid	Not required	Not required
	– Pendant-hung fixtures directly supported from structure with 9-gauge wire (or approved alternative)	Required	Required
	– Rigid lay-in or can light fixtures		
	< 10 lbs – one wire to structure (may be slack)	Required	Required
	10 to 56 lbs – two wires from housing to structure (may be slack)	Required	Required
	> 56 lbs – supported directly to structure by approved hangers	Required	Required
Service Applications	Air terminals		
	< 20 lbs – positively attached to grid	Required	Required
	20 to 56 lbs – positively attached to grid and two 12-gauge wires to structure (may be slack)	Required	Required
	> 56 lbs – directly supported to structure	Required	Required
	Sprinkler heads and other penetration clearance	Min 2″ dia. opening or a swing joint	Min 3/8″ on all sides
	Cable trays and electrical conduit independently supported and braced	Required	Not required

1. Refers to CISCA installation recommendations for zones 0-2 via ASCE 7-02. Max ceiling weight: 2.5 psf.
2. Refers to CISCA installation recommendations for zones 3-4 via ASCE 7-02.
3. All USG Donn® brand ceiling suspension systems meet these requirements.
4. Per ASTM C635.
5. Required for ceilings larger than 1,000 square feet.
6. Where substantiating design calculations are not provided.
7. Seismic standards generally apply to ceilings larger than 144 square feet.
8. When intermediate-duty systems are used, No. 12-gauge hanger wires shall be attached to the suspension members within three inches of each corner of each fixture.
9. Please refer to AC3235 for more information.

Sound Test Data[1]

Acoustical Panel Product Name	Item No.	Size	CAC	CAC Mounting[3]	Sound Absorption Test Data[2] NRC	Mounting	Band Center Frequency Hz 125	250	500	1000	2000	4000
Aspen	650	2′x2′x3/4″	35	CE[6]	.55	E400	.59	.31	.48	.69	.65	.61
Aspen Illusion Two/24	652	2′x4′x3/4″	40	CE[6]	.55	E400	.30	.32	.47	.68	.64	.56
Astro *ClimaPlus*	8241	2′x4′x5/8″	35	CE	.55	E400	.32	.35	.51	.63	.64	.61
	8223	2′x2′x5/8″	35	CE	.55	E400	.45	.35	.47	.67	.71	.71
Brio *ClimaPlus*	308	2′x2′x3/4″	35	CE	.70	E400	.40	.30	.62	.98	.99	.97
Clean Room (perforated)	56060	2′x2′x5/8″	35	CE	.55	E400	.43	.38	.63	.76	.56	.35
Eclipse *ClimaPlus*	76775	2′x2′x3/4″	35	CE	.70	E400	.52	.51	.63	.92	.95	.87
"F" Fissured	101	12″x12″x3/4″	25	CCF	.70	E400	.62	.60	.55	.78	.90	.88
	132	2′x2′x3/4″	35	CE[4,6]	.70	E400	.59	.30	.72	1.02	.98	.97
	131	2′x2′x3/4″	35	CE[5,6]	.70	E400	.45	.31	.71	1.04	.98	.99
Fissured	562	2′x4′x5/8″	35	CE	.55	E400	.41	.38	.55	.84	.76	.73
	586	2′x4′x5/8″	35	CE	.55	E400	.39	.26	.42	.70	.82	.75
Fresco *ClimaPlus*	608	2′x2′x3/4″	35	CE	.70	E400	.38	.32	.66	.99	.97	.93
Frost *ClimaPlus*	414	2′x2′x3/4″	38	CE[4,6]	.70	E400	.44	.28	.68	1.01	1.02	1.01
Glacier	701	12″x12″x3/4″	25	CCF	.65	E400	.80	.71	.59	.79	.93	.97
	707	2′x2′x3/4″	35	CE[4,6]	.65	E400	.45	.28	.47	.88	1.06	1.02
	715	2′x2′x3/4″	35	CE[4]	.65	E400	.43	.26	.60	.92	.94	1.04
Halcyon *ClimaPlus*	97241	2′x4′x3/4″	20	CE	.90	E400	.72	.88	.68	.96	1.01	1.05
	98241	2′x4′x1″	25	CE	.95	E400	.80	.95	.78	1.04	1.07	1.09
	99241	2′x4′x1-1/2″	25	CE	1.00	E400	.78	.88	.90	1.10	1.06	.97
	88223	2′x4′x1″	30	CE	.90	E400	.60	.57	.91	1.06	1.15	1.01
	88224	2′x4′x1-1/2″	30	CE	.95	E400	.57	.78	.91	1.16	1.07	.94
Halcyon *ClimaPlus* Large Sizes	98441	4′x4′x1″	20	CE	.95	E400	.81	.89	.75	1.05	1.09	1.10
Mars *ClimaPlus*	86185	2′x2′x3/4″	35	CE	.70	E400	.36	.36	.63	.90	1.00	.91
Mars *ClimaPlus* High-NRC Panels	87200	2′x2′x7/8″	35	CE	.80	E400	.60	.54	.71	.97	1.00	1.01
Millennia *ClimaPlus*	76705	2′x2′x3/4″	35	CE	.70	E400	.55	.37	.64	.89	.98	.96
Millennia *ClimaPlus* High-NRC	76201	2′x2′x3/4″	30	CE	.75	E400	.72	.66	.67	.90	.97	.96
Premier Nubby *ClimaPlus*	7013G	2′x4′x1″	25	CE	.90	E400	.54	.59	.85	1.09	1.09	.97
Radar	2120	2′x2′x5/8″	33	CE[4,6]	.55	E400	.45	.32	.48	.73	.69	.63
	2310	2′x4′x5/8″	35	CE	.55	E400	.31	.39	.48	.68	.67	.55
	2315	2′x4′x5/8″	35	CE	.55	E400	.38	.28	.48	.75	.76	.70
	2990	12″x12″x5/8″	40	CCF	.55	E400	.50	.34	.52	.67	.63	.70
Radar *ClimaPlus* High-Durability	2207	2′x2′x5/8″	35	CE	.55	E400	.46	.30	.49	.80	.76	.73
Radar *ClimaPlus* High-NRC/ High-CAC	22111	2′x2′x3/4″	35	CE[4]	.70	E400	.71	.52	.65	.98	.91	.79
	22311	2′x4′x3/4″	35	CE	.70	E400	.45	.48	.62	.94	.86	.65

					Sound Absorption Test Data[2]		Band Center Frequency Hz					
Acoustical Panel Product Name	**Item No.**	**Size**	**CAC**	**CAC Mounting[3]**	**NRC**	**Mounting**	**125**	**250**	**500**	**1000**	**2000**	**4000**
Radar Illusion Two/24	2742	2′x4′x3/4″	35	CE	.55	E400	.43	.34	.49	.70	.67	.73
Rock Face *ClimaPlus*	56380	2′x4′x5/8″	35	CE	.55	E400	.33	.23	.50	.75	.65	.55
Sandrift *ClimaPlus*	808	2′x2′x3/4″	38	CE	.70	E400	.46	.30	.67	1.01	.96	.94
Sheetrock Lay-In Ceiling Panel *ClimaPlus*	3270	2′x4′x1/2″	40	CE	—	—	—	—	—	—	—	—
Summit *ClimaPlus*	990	2′x2′x3/4″	38	CE	.70	E400	.40	.43	.76	.91	.71	.56

Notes:
All sound testing is conducted at the USG Research CSL Acoustical Test Facility, which is certified under the NVLAP Voluntary Accreditation Program and under the UL Client Data Test Program.

1. Data on physical properties for sound control products were obtained by testing at recognized laboratories. Sound-test surfaces were painted. Procedures were according to:
– ASTM E1477 for light reflectance (LR)
– ASTM C423 for sound absorption (NRC)
– ASTM E1414 for sound attenuation(CAC)
2. Sound absorption test specimen mountings:
B—adhesive application to gypsum board;
D20—stapled to wood furring strips;
E400 or E405—metal suspension system. Mountings are designations from ASTM Standard E795.
3. Sound attenuation test specimen mountings, coded: (1st letter)
Ad—Adhesive attachment,
C—Continuous at partitions,
I—Interrupted at partitions; (2nd letter)
C—Concealed suspension system,
E—Exposed suspension system; (3rd or 4th letter)
F—Flat splines,
T—Tee splines,
X—accessible feature;
a—one layer 1-1/2″ Thermafiber® sound attenuation fire blankets, laid on ceiling continuous;
d—two layers 1-1/2″ Thermafiber sound attenuation fire blankets, laid on ceiling in an 8-ft width centered over the partition;
t—inverted-T plenum barrier of 3″ Thermafiber sound attenuation fire blankets, centered above partition continuous.
4. Shadowline (rabbeted) edge configuration.
5. For current acoustical data, verify with 800 USG.4YOU.
6. Minimal requirement under the U.L. acoustical compliance program.

Lencore Acoustics Sound Masking

Achieve Speech Privacy and Acoustical Comfort with Lencore Sound Masking

Acoustics are an important aspect of any design, whether to enhance productivity and comfort in office environments or comply with federal speech privacy regulations in healthcare and financial settings. To meet these demands, architects increasingly turn to sound masking to optimize the acoustical performance of a quality ceiling system.

From Worker Comfort to Legal Compliance

Sound masking provides a constant, random and unobtrusive background sound that effectively overrides sound not absorbed or blocked by ceiling panels, acoustical wall panels, carpeting, partitions and other design elements. In open-plan offices, sound masking reduces distractions from coworkers' conversations, meetings and speakerphones. In enclosed offices and spaces with wall and ceiling penetrations for lighting, HVAC and other systems, sound masking complements high-CAC ceiling panels by further reducing the amount of intelligible conversation that may reach others outside.

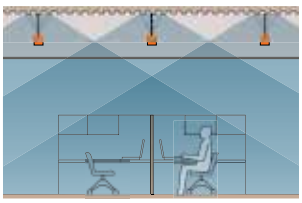
Even exceptionally quiet environments can benefit from sound masking. In these spaces, the faintest sounds—rustling papers, drawers opening and closing—can be distracting. Without ambient background sound, intermittent noise becomes intrusive.

Beyond reducing distraction and allowing people to speak in confidence, sound masking can help ensure compliance with privacy regulations. The Health Insurance Portability and Accountability Act (HIPAA) regulates the transmission of health information in electronic, paper and oral forms, while the Financial Services Modernization Act of 1999, also known as the Gramm-Leach-Bliley Act (GLBA), requires financial institutions to protect customer financial information from inadvertent disclosure. Both regulations include requirements that affected facilities adopt systems and procedures to prevent consultations with and about patients and customers from being overheard. Sound masking can help architects, specifiers and building owners and managers achieve compliance.

USG offers an extensive selection of acoustical ceiling panels with high NRC and CAC ratings, performance that can be further enhanced with Lencore sound masking:

	NRC	CAC
Eclipse *ClimaPlus*	.70	35
Frost *ClimaPlus*	.70	38/40
Halcyon *ClimaPlus*	1.0	25
Mars *ClimaPlus*	.70	35
Mars *ClimaPlus* High-NRC	.80	35
Sandrift *ClimaPlus*	.70	38
Summit *ClimaPlus*	.70	38/40

The Lencore Advantage



Sound masking systems from Lencore Acoustics employ a unique design to provide even, uniform coverage throughout a space. Take a closer look at the comprehensive benefits of the high-quality Lencore Spectra® sound masking system.

– Performance. Masking is directed upward to create a reverse "cone of sound" that fills the plenum and filters down through the ceiling panels, preventing "hot" and "cold" spots common to other system types, such as direct-field and centrally controlled systems. Coverage from adjacent units overlaps, distributing even, uniform sound throughout the workspace.

– Flexibility. Lencore sound generating units hang above the ceiling system, where they won't interfere with ceiling renovations or have to be reconfigured if the layout of office furniture, workstations or partitions changes. Lencore systems support optional, integrated paging and music capabilities vastly superior to conventional systems, and individual and/or central controls are available.

– Savings. Each unit is hung on 15-ft. centers, providing 225 sq. ft. coverage – up to three times as much coverage as panel-mounted, direct-field and some centrally controlled sound masking units, significantly reducing equipment and labor costs.

  Units operate on low-voltage power, with no special electrical requirements. Documented workplace productivity gains of 3-20 percent can provide a full return on investment in less than one year.

– Comfort. Ensuring that the sound generated is not distracting is the most nuanced aspect of sound masking, and where many other systems fail. Lencore technology creates digital, non-repeating masking cycles with the tightest masking variance (+/- 1/2 dBa) of any available system. These advantages ensure uniformity in masking and speech privacy levels, producing a sound preferred by 99 percent of listeners in competitor system comparisons.

– Quality. Lencore systems have a 30-year record of performance in the field, and many Spectra systems have been in use for 10+ years. All systems are made in the U.S. A., UL-listed and backed by a 10-year warranty from date of installation.

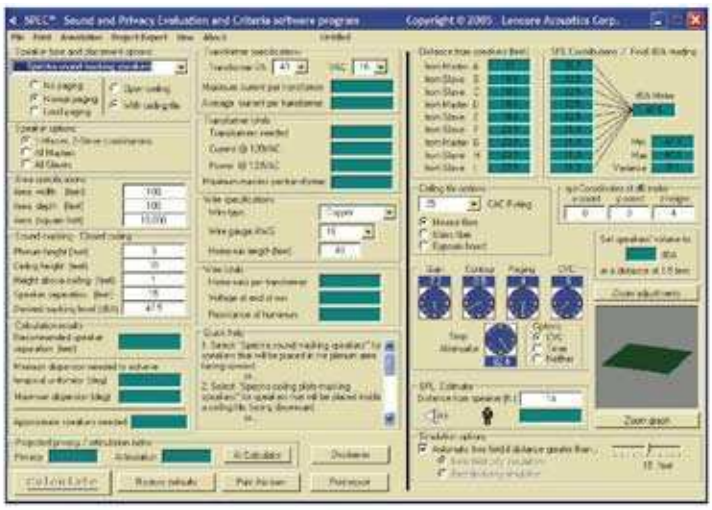
– Zero maintenance. No system maintenance or tuning is required after installation.

To learn more about how sound masking can enhance the sound control and speech privacy performance of a USG ceiling, visit Lencore Acoustics online at www.lencore.com. Local assistance is available from Lencore expert representatives in all 50 states to provide complete project services and support, from acoustical analysis through system installation and tuning.

Proof of Speech Privacy Levels

Lencore's award-winning Sound and Privacy Evaluation and Criteria (SPEC™) software analyzes and compares the sound levels and speech privacy of a space (existing or in design) with a standard ceiling system and with a high-performance USG acoustical ceiling and Lencore sound masking.

Provided as a free service, Lencore representatives use SPEC to tailor a sound masking solution to your design and acoustical performance requirements. Upon installation, the facility owner or manager receives a Privacy Index Report™ fully documenting that the desired Articulation Index[1] has been attained.



1. Speech privacy is measured per ASTM E1130, Standard Test Method for Objective Measurement of Speech Privacy in Open Offices Using Articulation Index, which classifies speech privacy levels as minimal, normal or confidential.

Fire-Rated Ceiling Assemblies

Suspension Ceiling Designs

	UL Design No.	Assembly Rating (Maximum)	Approved Ceiling Tiles/Panels	Tile/ Panel Sizes	Suspension System	Maximum Fix. Size % Ceiling Area	Duct Area per 100 Sq. Ft. of Ceiling Area	Assembly Construction Details
Floor/Ceiling Designs—Concrete with Cellular Steel Floor Units and Beam Support Concealed Grid System and Tile	A003	3 hr. R; 3 hr. UR; 3 hr. URB	3/4 FR-83	12 x 12 12 x 24	Z-runners	Fluorescent type, 2 x 4—8%	None	2-1/2″ concrete; Cellular deck; W10 x 25 beam
Floor/Ceiling Designs—Concrete with Steel Floor Units and Beam Support Exposed Grid System and Lay-in Panels	D209	2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. UR; 1-1/2 hr. URB	FR-83; FR-4; M; FR-X1; FC-CB	2 x 2; 2 x 4	DXL, DXLA	Fluorescent type, 2 x 4—8%	None	2-1/2″ concrete; Cellular or fluted deck W10x 21 beam
	D215	4 hr. URB; 2 hr. R; 2 hr. UR; 2 hr. URB; 1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr URB	3/4″ FR-83	2 x 4;	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—16%; Incandescent type, 6-1/2″ diam.	113 sq. in.	2-1/2″ concrete; Cellular or fluted deck W8 x 15 beam
	D218	3 hr. R; 3 hr. UR; 3 hr. URB; 2 hr. R 2 hr. UR; 2 hr. URB	FR-83; Metal Pans; M	2 x 4	DXLP, DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—20% 5 x 48—10% 9 x 48—14%; Incandescent type, 6-1/2″ diam.	1 air boot per 100 sq. ft.	3-1/4″ concrete (3 hr.), 2-1/2″ concrete (2 hr.); Cellular or fluted deck; W8 x 15 beam
	D219	3 hr. R; 3 hr. UR; 3 hr. URB; 2 hr. R; 2 hr. UR; 2 hr. URB; 1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. URB; 1 hr. R; 1 hr. UR; 1 hr. URB	FR-83; FR-4; FR-X1	2 x 2 2 x 4	DXL, DXLA, DXLT, DXLZ, DXLZA, SDXL, SDXLA, ZXLA	Fluorescent type, 12 x 48—16% 24 x 24—20% 20 x 48—20% 20 x 48—24%	144 sq. in.	3-1/2″ concrete (3 hr.); 2-1/2″ concrete (2 hr.); Cellular or fluted deck; W8 x 15 beam
Floor/Ceiling Designs—Concrete and Steel Joists Exposed Grid System and Lay-in Panels	G201	1 hr. R; 1 hr. UR	FR-X1; FR-83; M	2 x 2; 2 x 4	DXL, DXLA, DXLZ, SDXL, DXLZA, SDXLA, ZXLA	Fluorescent type, 2 x 4—8%; Incandescent type, 6-1/2″ diam.	None	2″ concrete; Metal lath or deck;10″ bar joists 24 to 30″ o.c. or Hambro System
	G202	2 hr. R; 2 hr. UR	FR-4; FR-83; FR-X1; Astro-FR; M	2 x 2; 2 x 4; 20 x 60; 24 x 60	DXL, DXLZ, SDXL	Fluorescent type, 20 x 48; 20 x 48/60—24%; 2 x 2 HID—12%; Incandescent type, 6-1/2″ diam.	576 sq. in.	2-1/2″ concrete; Metal lath 10″ bar joists 24″ or 30″ o.c.
	G203	2 hr. R; 2 hr. UR; 2 hr. URB	FR-83; Astro-FR; M	2 x 2; 2 x 4; 20 x 60	DXL, DXLT	Fluorescent type, 2 x 4 or 20 x 60—16% Incandescent type, 6-1/2″ diam.—1.4%	254 sq. in. (576 sq. in.)	2-1/2″ concrete; Metal lath or deck; 10″ bar joists 24″ o.c. or Hambro system, W6 x 12 or W8 x 10 beam
	G204	2 hr. R; 2 hr. UR; 2 hr. URB	FR-83; FR-4; M; FR-X1; Astro-FR; [GR-1]	24 x 24 to 30 x 60	DXL, DXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 24 x 24; 24 x 48; 24 x 60; 24%; 2 x 2 HID; Incandescent type, 6-1/2″ diam.	113 sq. in. (576 sq. in.)	2-1/2″ concrete; Metal lath or deck; 10″ bar joists 30″ o.c.; W6 x 12 beam
	G205	3 hr. R, 3 hr. UR, 3 hr. URB	FR-83; FR-X1; FC-CB; FR-4 Astro-FR	2 x 2; 2 x 4	DXLT, DXL, DXLZ, SDXL, DXLA, SDXLA, DXLZA, DXLTZ, DXLTA, DXLTZA	Fluorescent type, 2 x 4—24% Incandescent type, 6-1/2″ diam.	576 sq. in.	3-1/2″ concrete (3 hr.) 2-1/2″ concrete (2 hr..) 8″ bar joists, 72″ o.c. (2 hr. rating) 10″ bar joists 48″ o.c. (3 hr. rating)

Suspension Ceiling Designs

	UL Design No.	Assembly Rating (Maximum)	Approved Ceiling Tiles/Panels	Tile/ Panel Sizes	Suspension System	Maximum Fix. Size % Ceiling Area	Duct Area per 100 Sq. Ft. of Ceiling Area	Assembly Construction Details
Floor/Ceiling Designs– Concrete and Steel Joists Exposed Grid System and Lay-in Panels (continued)	G211	3 hr. R; 3 hr. UR	FR-83; FR-4; FR-X1; FC-CB; Astro-FR; M	2 x 2; 2 x 4	DXL, DXLA, DXLZ, ZXLA, SDXL, SDXLA	Fluorescent type, 2 x 4—16%	113 sq. in.	3″ concrete; Metal lath; 10″ bar joists 24″ o.c.
	G213	3 hr. R; 3 hr. UR; 3 hr. URB; 2 hr. R; 2 hr. UR; 2 hr. URB 1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 URB; 1 hr. R; 1 hr. UR; 1 hr. URB	FR-4; FR-83; M FR-X1; FC-CB (1 or 1-1/2 hr.) Astro-FR	2 x 4; 2 x 2	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—24%; Incandescent type, 6-1/2″ diam.	154 sq. in.	3-1/2″ concrete; metal lath or deck 10″ bar joists 24″ o.c.; W6 x 12 beam
	G215	2 hr. R; 2 hr. UR; 2 hr. URB 2 hr. URB	FR-83; FR-4; FR-X1: Astro-FR; M	2 x 2; 2 x 4; 20 x 60	DXL, DXLZ, SDXL	Fluorescent type, 20 x 48/60—24%; 2 x 2 HID—2%; Incandescent type, 6-1/2″ diam.	154 sq. in.	2-1/2″ concrete; Metal lath; 10″ bar joists 24″ o.c. or Hambro system; W10 x 21 beam
	G222	2 hr. R; 2 hr. UR; 2 hr. URB	FC-CB	2 x 2	DXL, DXLA, DXLH, DXLZ, SDLX, SDXLA	Fluorescent type, 2 x 4—12%; Incandescent type, 6-1/2″ diam.	57 sq. in.	2-1/2″ concrete; Metal lath; 10″ bar joists 24″ o.c.; W8 x 24 beam 6-1/2″ diam.
	G227	2 hr. R; 2 hr. UR; 3 hr. URB	FR-83; Astro-FR; M	2 x 2; 2 x 4	DXL, DXLZ , SDXL	Fluorescent type, 2 x 4—16%	57 sq. in.	2-1/2″ concrete; Metal lath or deck; 10″ bar joists 24″ o.c. or Hambro System; W8 x 31 beam
	G228	2 hr. R; 2 hr. UR; 2 hr. URB	AP; AP-3	2 x 2	DXL, DXLZ, SDXL	Fluorescent type, 2 x 2—12%; Incandescent type, 6-1/2″ diam.	57 sq. in.	2-1/2″ concrete; Metal lath or deck; 10″ bar joists 24″ o.c.; W8 x 31 beam
	G230	2 hr. R; 2 hr. UR 2 hr. URB	FR-83; FR-X1; Astro-FR; M	2 x 2; 2 x 4	DXL, DXLA, DXLZ, DXLZA, SDXL, SDXLA, ZXLA	Fluorescent type, 2 x 4—16%	113 sq. in.	2″ building units; Floor topping mixture; 10″ bar joists 48″ o.c.; W8 x 31 beam
	G231	2 hr. R; 2 hr. UR; 3 hr. URB	3/4″ FR-83	24 x 24 to 30 x 60	DXL, DXLA, DXLZ, SDXL, DXLZA, SDXLA, ZXLA	Fluorescent type, 2 x 4—16%	57 sq. in.	2-1/2″ concrete; Metal lath or deck; 8″ bar joists 24″ o.c.; W8 x 31 beam
	G259	1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. URB	FC-CB	2 x 4	DXL, DXLA, DXLH, DXLZ, SDLX, ZXLA	Fluorescent type, 2 x 4—16%; Incandescent type, 6-1/2″ diam.	57 sq. in.	2-1/2″ concrete; Metal lath; 10″ bar joists 24″ o.c.; W8 x 31 beam
	G262	1-1/2 hr. R; 1-1/2 hr. U	AP-1; FR-83 FR-X1; AP-2; [GR-1]	2 x 2 ILT edge	DXLT, DXLTZ, DXLTA, DXLTZA	Fluorescent type, 2 x 4—24%	113 sq. in.	2-1/2″ concrete; Steel deck; 8″ bar joists 24″ o.c.
	G264	1-1/2 hr. R; 1-1/2 hr. U	AP-1; FR-83 FR-X1; AP-2; Astro-FR	2 x 2 FL edge	DXLF	Fluorescent type, 2 x 2—24%; Incandescent type, 6-1/2″ diam.	113 sq. in.	2-1/2″concrete; Steel deck; 8″ bar joists 24″ o.c.
	G265	2 hr. R; 2 hr. U; 2 hr. URB	3/4″ FR-83; FR-X1	2 x 2; SQ, ILT edge	DXLT, DXLTA, DXLTZ, DXLTZA	Fluorescent type, 2 x 2—24%; Incandescent type, 6-1/2″ diam.	113 sq. in.	2-1/2″ concrete; Metal lath; 10″ bar joists 24″ o.c; W8 x 35 beam

Fire-Rated Ceiling Assemblies

Suspension Ceiling Designs

	UL Design No.	Assembly Rating (Maximum)	Approved Ceiling Tiles/Panels	Tile/ Panel Sizes	Suspension System	Maximum Fix. Size % Ceiling Area	Duct Area per 100 Sq. Ft. of Ceiling Area	Assembly Construction Details
Floor/Ceiling Designs– Concrete and Steel Joists Concealed Grid System and Tile	G002	2 hr. R; 2 hr. UR	FR-83	12 x 12; 12 x 24	Z-runners	Fluorescent type, 2 x 4—24%	576 sq. in.	2-1/2″ concrete; Metal lath; 10″ bar joists 24″ o.c.
	G007	2 hr. R; 2 hr. UR; 2 hr. URB	FR-83	12 x 12; 12 x 24; 24 x 24	Not a USG product	Fluorescent type, 1 x 4—16% or 2 x 4—24%	196 sq. in.	2-1/2″ concrete; Metal lath; 10″ bar joists 24″ o.c.; W10 x 21 beam
	G008	2 hr. R; 2 hr. UR; 2 hr. URB	FR-83	12 x 12 to 24 x 24	DXL, DXLZ, SDXL (DE, DT, DEN, PAT, BPA/PAT, E, BPC)	Fluorescent type, 1 x 4—12% 2 x 4 —16%	288 sq. in.	2-1/2″ concrete; Metal lath or deck; 10″ bar joists 24″ o.c.; W8 x 31 beam
	G040	2 hr. R; 2 hr. UR	FR-83	12 x 12; 12 x 24	DXL, DXLA, ZXLA, (DE, DT), DXLZ, SDXL	Fluorescent type, 2 x 4—16%	113 sq. in.	2-1/2″ concrete; Metal lath; 10″ bar joists 24″ o.c.; W10 x 19 beam
	G267	1-1/2 hr. R; 1-1/2 hr. UR	FR-83; AP AP-3, FR-X1; M	2 x 2	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—24% Incandescent type, 6-1/2″ diam.	113 sq. in.	2-1/2″concrete; Steel deck; 8″ bar joists 24″ o.c.;
	G268	3 hr. R; 3 hr. UR 3 hr. URB	3/4″ AP-3	2 x 2	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—12% Incandescent type, 6-1/2″ diam.	57 sq. in.	2-5/8″ concrete; Metal lath; 10″ bar joists 28″ o.c.; W8 x 31 beam
Floor/Ceiling Designs– Precast and Field-Poured Concrete Exposed Grid System and Lay-In Panels	J201	2 hr. R; 2 hr. UR	FR-83; FR-4; M; FR-X1; AP; AP-1; AP-3	2 x 2; 2 x 4; 20 x 60	DXL, DXLT, DXLZ, SDXL, DXLA, SDXLA, ZXLA, DXLTA, DXLTZA	Fluorescent type, 2 x 4—24%; Incandescent type, 6-1/2″ diam.	576 sq. in.	2-1/2″ concrete floor with 6″ concrete stems
	J202	2 hr. R; 2 hr. UR	FR-83; FR-X1; AP; AP-1; AP-2; AP-3	2 x 2; 2 x 4	DXL, DXLT, DXLZ, SDXL, DXLTZ, DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—14%; Incandescent type, 6-1/2″ diam.	57 sq. in.	Precast concrete; 2″ deck; Stems 4′ o.c.
Floor/Ceiling Designs– Wood or Combination Wood and Steel Joists Assemblies Exposed Grid System and Lay-In Panels	L202	1 hr. UR; Finish Rating: 15 min.	FR-83; FR-4; M; FR-X1; Astro-FR	2 x 2; 2 x 4; 20 x 60; 24 x 60	DXL, DXLZ, SDXL Acoustical tent DXLT, DXLTA, DXLTZ	Fluorescent type, 20 x 48/60 or 2 x 4—16%; Incandescent type, 6-1/2″ diam.—1%	110 sq. in.	Wood floor; 2 x 10 wood joists 16″ o.c.
	L206	1 hr. UR; Finish Rating: 17 min.	FR-83; FR-X1; M; FC-CB	2 x 2 x 3/4; 2 x 4	DXL, DXLA, DXLT, DXLTA, DXLTZ, DXLZ, DXLZA, SDXL, SDXLA	Fluorescent type, 2 x 4—8%; Incandescent type, 6-1/2″ diam.—0.5%	110 sq. in.	Wood floor; 2 x 10 wood joists 16″ o.c.
	L211 (P237)	2 hr. UR; Finish Rating: 75 min.	FR-4; FR-83; FR-X1; M	2 x 4	DW (for drywall), DXL, DXLA, SDXL, DXLZ, SDXLA, ZXLA (for panels)	Fluorescent type, 1 x 4—16%; 2 x 2—20%; 2 x 4—24%; Incandescent type, 6-1/2″ diam.	576 sq. in.	Wood floor; 2 x 10 wood joists 16″ o.c.; 1/2″ Firecode C Gypsum Panel Ceiling w/6″ fiberglass insulation
	L212 (P238)	1 hr. UR; Finish Rating: 17 min.	FR-4	2 x 2; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 1 x 4—12%; 2 x 2—16%; 2 x 4—24%; Incandescent type, 6-1/2″ diam.	576 sq. in., Linear air returns	Wood floor; 2 x 10 wood joists 16″ o.c; Panels back Panels backloaded w/6″ fiberglass

Suspension Ceiling Designs

	UL Design No.	Assembly Rating (Maximum)	Approved Ceiling Tiles/Panels	Tile/ Panel Sizes	Suspension System	Maximum Fix. Size % Ceiling Area	Duct Area per 100 Sq. Ft. of Ceiling Area	Assembly Construction Details
Floor/Ceiling Designs– Wood or Combination Wood and Steel Joists Assemblies Concealed Grid System and Tile	L006	1 hr. UR; Finish Rating: 12 min.	FR-83	12 x 12; 12 x 24	Not a USG product	Fluorescent type, 12 x 48; 20 x 48; 20 x 60—14%	81 sq. in., Linear air returns	Wood floor; 2 x 10 wood joists 16″ o.c
Roof/Ceiling Designs Exposed Grid System and Lay-in Panels	P201	1 hr. R; 1 hr. UR; 1 hr. URB	FR-83; FR-X1; M	2 x 4	DXL, DXLA, ZXLA, DXLZ, SDXL, DXLZA, SDXLA	None	None	Steel deck; 3/4″ insulation; 10″ bar joists 84″ o.c.; W8 x 17 beam
	P202	1 hr. R; 3/4 hr. UR; 1 hr. URB	FR-83; FR-X1; M	2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—16%	57 sq. in.	Steel deck; 1″ insulation; 8″ bar joists 48″ o.c.
	P203	3/4 hr. R; 3/4 hr. UR; 3/4 hr. URB	FR-83; M; FR-X1	2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—24%	113 sq. in.	Steel deck 1″ to 2″ insulation 8″ bar joists 60″ o.c.
	P213	2 hr. R; 2 hr. U	3/4″ FR-83; FR-X1	2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—16%; Incandescent type, 6-1/2″ diam.—1.0%	110 sq. in.,	2″ planks; Insulation; 14″ bar joists 84″ o.c.
	P214	1 hr. R; 1 hr. UR; 1 hr. URB	3/4″ FR-83	2 x 2; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—16%; Incandescent type, 6-1/2″ diam.—1%	57 sq. in.	Steel deck 3/4″ to15/16″ insulation; 10″ bar joists 72″ o.c.
	P230	1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. URB	FR-4; FR-83; FR-X1; M; AP (1 hr. only); AP-3; Astro-FR; Metal Pans	2 x 2; 2 x 4; 20 x 60	DXL, DXLA, DXLP, DXLT, DXLTA, DXLTZ, DXLZ, DXLZA, SDXL, SDXLA, ZXLA	Fluorescent type, 2 x 4—24%; Incandescent type, 6-1/2″ diam.; 2 X 2 HID	255 sq. in. (576 sq. in. for 1 hr.)	Unlimited insulation; Gypsum panels or DUROCK® on steel deck; 10″ bar joists 72″ o.c.; 6 x 12 beam
	P235	1 hr. R; 1 hr. UR 1 hr. URB	FR-83; FR-X1; M	2 x 4; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—16%	144 sq. in.	Foamed plastic insulation; Gypsum panels; Steel deck, 10″ bar joists 72″ o.c.; W8 x 15 beam
	P237	2 hr. R; 2 hr. UR; 2 hr. URB	FR-4; FR-83; FR-X1; M	2 x 4	DGL (for drywall) DXL, DXLA, DXLZ, DXLZA, SDXL, SDXLA (for panels), ZXLA,	Fluorescent type, 1 x 4—16%; 2 x 2—20%; 2 x 4—24%; Incandescent type, 6-1/2″ diam.	144 sq. in. Linear air returns	Unlimited insulation; Steel deck; 8″ bar joists 72″ o.c.; 1/2″ FIRECODE C Gypsum Panel Ceiling w/6″ fiberglass insulation
	P238	1 hr. R; 1 hr. UR; 1 hr. URB	FR-4	2 x 2; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 1 x 4—12%; 2 x 2—16%; 2 x 4—24%; Incandescent type, 6-1/2″ diam.	576 sq. in.	1″ to 2″ insulation; Steel deck; 8″ bar joists 48″ o.c.;
	P241	2 hr. R; 2 hr. UR	FR-4; FR-83; FR-X1; M	2 x 4	DW (for drywall), ZXLA, DXL, DXLZ, SDXL, DXLZA, SDXL (for panels)	Fluorescent type, 1 x 4—16%; 2 x 2—20%; 2 x 4—24%; Incandescent type, 6-1/2″ diam.	576 sq. in.	Insulating concrete; Steel deck; 10″ bar joists 72″ o.c.; 1/2″ FIRECODE C Gypsum Panel Ceiling w/6″ fiberglass insulation

Fire-Rated Ceiling Assemblies

Suspension Ceiling Designs

	UL Design No.	Assembly Rating (Maximum)	Approved Ceiling Tiles/Panels	Tile/ Panel Sizes	Suspension System	Maximum Fix. Size % Ceiling Area	Duct Area per 100 Sq. Ft. of Ceiling Area	Assembly Construction Details
Roof/Ceiling Designs Exposed Grid System and Lay-in Panels (continued)	P245 (P238)	1 hr. R; 1 hr. UR	FR-4	2 x 2; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 1 x 4—12%; 2 x 2—16%; 2 x 4—24%; Incandescent type, 6-1/2″ diam.	576 sq. in.	3/4″ insulation over 2″ Bldg. Units; 14″ bar joists 84″ o.c.; Ceiling panels back-loaded w/ 6″ fiberglass
	P246	1 hr. R; 1 hr. UR; 1 hr. URB	FR-83; FR-X1; M	2 x 2; 2 x 4; 20 x 60	DXL, DXLZ, SDXL	Fluorescent type, 2 x 2—20%; 2 x 4—24%; 2 x 4 HID; Incandescent type, 6-1/2″ diam.	576 sq. in.	Insulating concrete over foamed plastic; Steel deck; 8″ bar joists 72″ o.c.; W8 x 15 beam
	P254	1 hr. R; 3/4 hr. UR; 3/4 hr. URB	3/4″ FR-83	2 x 2 FL edge	DXLF	Fluorescent type, 2 x 2 or 2 x 4—24%; Incandescent type, 6-1/2″ diam.	113 sq. in.	Unlimited insulation; Gypsum wallboard; Steel roof deck, 10″ bar joists 48″ to 72″ o.c.
	P255	1 hr. R; 1 hr. UR; 1 hr. URB	FR-83 FR-X1; M	2 x 2; 2 x 4	DXL, DXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 2 x 4—24%; Incandescent type, 6-1/2″ diam.	57 sq. in.	Insulating concrete over foamed plastic; Steel deck; 8″ bar joists 72″ o.c.; W8 x 15 beam
	P257	1hr. UR	FR-83 FR-X1; M	2 x 2; 2 x 4	DXL, DXLA, DXLZ, SDXL, DXZA, SDXLA	Fluorescent type, 2 x 4—25%	255 sq. in.	4-7/8″ insulation; Gypsum wallboard over steel deck; 7-1/4″ steel "C" joists 24″ o.c.
	P267	1 hr. R; 1 hr. UR 1 hr. URB	FR-83; FR-X1; M; Metal pans	2 x 2; 2 x 4	DXL, DXLA, DXLP, ZXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 2 x 4—16%	576 sq. in.	1″ to 2″ insulation; Steel deck; 8″ bar joists 48″ o.c.
	P268	1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. URB	3/4″ FR-83; 5/8″ FR-4	2 x 2	DXL, DXLA, ZXLA, DXLZ, SDXL, DXLZA, SDXLA	Fluorescent type, 2 x 4—24%	576 sq. in.	Metal roof deck panels; glass fiber insulation; steel roof purlins 60″ o.c.; ceiling panels backloaded w/6″ fiberglass
	P269	1-1/2 hr. R; 1-1/2 hr. UR; 1-1/2 hr. URB	FR-83; FR-X1; FR-4	2 x 2; 2 x 4	DXL, DXLZ, SDXL	Fluorescent type, 2 x 4—24%; Incandescent type, 6-1/2″ diam.—1.4%	255 sq. in.	Insulating concrete; Steel deck; 10″ bar joists 48″ o.c.; W8 x 15 beam

Flat Drywall Ceilings

Floor/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Concrete/Steel Deck Floors Over Steel Beams	D501	2 hr-R 1-1/2 hr-UR 2 hr-UBR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Min. 2″ ltwt. concrete on Min. W8x17 beams
	D502	2 hr-R & UR 2 hr-UBR	5/8″	SHEETROCK FIRECODE C 1P-X2, 1PC-AR, & WRC	2x4 (24%)	144 sq. in.	Min. 2-1/2″ normal wt. concrete topping on Min. W8x28 beams
	D503	2 hr-R & UR 2 hr-UBR	5/8″	SHEETROCK FIRECODE C	6″ dia. incandescent 4 per 100 sq. ft	N/A	Min. 2-1/2″ normal wt. concrete on 2″ steel deck on min. W12x19 beams .
Concrete/Expanded Lath Floors Over Steel Joists and Beams	G523	2 hr-R & UR 3 hr-UBR	5/8″	SHEETROCK FIRECODE C 1P-X2	2x4 (24%)	144 sq. in.	Min. 2-1/2″ normal wt. concrete topping on Min. 8J2 joists and W10x21 beams
	G524	2 hr-R & UR 2 hr-UBR	1/2″	SHEETROCK FIRECODE C 1P-X2, 1PC-AR, & WRC	N/A	113 sq. in.	Min. 2-3/4″ or 2-1/2″ lt wt. or normal wt. concrete topping on min. 8″ or 10″ Hambro joists, respectively, and min. W8x24 beams
	G525	2 hr-R & UR 2 hr-UBR	5/8″	SHEETROCK FIRECODE C	N/A	113 sq. in.	Min. 3-1/2″ or 3-1/4″ normal wt. concrete topping on Min. 8″ or 10″ Hambro joists, respectively, and W8x24 beams
	G526	2 hr-R & UR 2 hr-UBR	1/2″	SHEETROCK FIRECODE C	2x4 (25%)	57 sq.in	Min. 2-1/2″ normal wt. concrete topping on Min. 8J2 joists and W10x21 beams
	G527	2 hr-R & UR 3 hr-UBR	1/2″	SHEETROCK FIRECODE C 1P-X2 & 1PC-AR	N/A	N/A	Min. 2-1/2″ normal wt. concrete topping on Min. 8J2 joists and W10x21 beams
	G528	1-1/2 hr-R & UR	1/2″	SHEETROCK FIRECODE C	N/A	N/A	Min. 2-1/2″ normal wt. concrete topping on Min. 10J2 joists
	G529	2 hr-R & UR 2 or 3 hr-UBR	1/2″	SHEETROCK FIRECODE C	2x4 (24%)	57 sq in	Min. 2-1/2″ normal wt. or ltwt. concrete topping on Min. 10J2 joists and W8x24 beams
		3 hr & UR 3 hr-UBR	1/2″	SHEETROCK FIRECODE C	2x4 (24%)	57 sq in	Min. 3-1/4″ normal wt. concrete topping on Min. 10J2 joists and W8x24 beams
		3 hr-R & UR 3 hr-UBR	5/8″	SHEETROCK FIRECODE C	2x4 (24%)	57 sq in	Min. 2-3/4″ normal wt. concrete topping on Min. 10J2 joists and W8x24 beams
	G531	2 hr-R&UR 2 hr-UBR	1/2″	SHEETROCK FIRECODE C	1x1 (1%)	144 sq. in.	Min. 3-1/4″ normal wt. concrete Min. 6″ D500 steel joist
		1 hr-R&UR	5/8″	SHEETROCK FIRECODE	1x1	144 sq. in. (1%)	Min. 2-1/2″ normal wt. concrete Min. 6″ D500 or D510 steel joist
	G541	1 hr-R&UR	5/8″	SHEETROCK FIRECODE C	2x4	113 sq. in. (24%)	Min. 3-1/2″ normal wt. concrete Min. 7-3/16″-deep, 18-ga. steel C-joists
	G546	1 hr-R&UR 1 hr-UBR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Min. 2″ normal ltwt. concrete light-gauge steel truss
	G547	2 hr-R&UR	1/2″	SHEETROCK FIRECODE C	2x4 (24%)	114 sq. in.	Min. 2-1/2″ normal wt. concrete Min. 8J2 or 10K1 steel joists
		3 hr-R&UR 3 hr-UBR	5/8″	SHEETROCK FIRECODE C	2x4 (24%)	114 sq. in.	Min. 3″ normal wt. concrete Min. 8J2 or 10K1 steel joists
	G551	1 hr-UR	5/8″ one or two layers	SHEETROCK FIRECODE C	N/A	N/A	1″ Levelrock, steel deck, 9-1/4″-deep steel C-joists @ 24″ o.c., 3-1/2″ insulation, RC-Is @ 24″ o.c.

Fire-Rated Ceiling Assemblies

Flat Drywall Ceilings

Floor/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Precast Concrete Floors	J502	2 hr-U & UR 3 hr-R & UR	5/8″ 5/8″	SHEETROCK FIRECODE C SHEETROCK FIRECODE C	NA NA	NA NA	Min. 2″ normal wt. concrete slab Min. 2-3/4″ normal wt. concrete slab
Wood Joists	L211	2 hr-UR 75 min finish rating	1/2″	SHEETROCK FIRECODE C	1x4 (12%) 2x2 (16%) 2x4 (24%) 20″x48″ (20%)	576 sq. in..	T & G or plywood (see 6 alternatives) over subfloor on 2x10 joists @16″ oc, plus P237- ceiling const.
	L502	1 hr-UR 22 min finish rating	1/2″	SHEETROCK FIRECODE C 2P-X2, 1PC-AR, & WRC	N/A	N/A	T & G or plywood (see 14 alternatives) over subfloor on 2x10 joists @ 16″ o.c.
	L508	1 hr-UR 29 min finish rating	5/8″	SHEETROCK FIRECODE C 1P-X1, 2P-X2, 2PC-AR, SCX, SYX, & WRX	N/A	N/A	T & G or plywood on 4x10 or DBL 2x10 joists
Wood Joists	L513	1 hr-UR 28 min finish rating	5/8″	SHEETROCK FIRECODE C	N/A	N/A	3/4″ T & G w/ adhesive on 2x10″ joists @ 24″ o.c., drywall battens at joints (see 15 alternatives)
	L515	1 hr-UR 21 min finish rating	1/2″	SHEETROCK FIRECODE C 2P-X2, 1PC-AR, & WRC	N/A	N/A	T & G over subflooring on 2x10 joists @ 16″ o.c. (see 9 alternatives)
	L523	1 hr-U 21-min. finish rating	5/8″	SHEETROCK FIRECODE C	N/A	198 sq. in.	Finish floor over 5/8″ plywood on 2x10 joists @ 16″ o.c. max.
	L525	1 hr-UR 21 min finish rating	1/2″ or 5/8″	SHEETROCK FIRECODE C	2x4 (24%)	57 sq. in.	T & G or plywood over subflooring on 2x10 joists @ 16″ o.c.(see 12 alternatives)
	L526	1 hr-UR 22 min finish rating	5/8″	SHEETROCK FIRECODE C 1P-X2, 1PC-AR, & WRC	2x4 (24%)	114 sq. in.	T & G or plywood over on 2x10 joists (see 10 alternatives)
Plywood with Wood Truss	L521	1 hr-U 25-min. finish rating	5/8″	SHEETROCK FIRECODE C	N/A	324 sq. in.	Finish floor over plywood subfloor on min. 18″-deep wood truss @ 24″ o.c. max.
	L529	1 hr-UR 22 min finish rating	5/8″	SHEETROCK FIRECODE C 1P-X2, 2PC-AR	2x4 (24%)	57 sq. in.	T & G wood floor or ltwt insulating concrete over subflooring (see 16 alternatives) on trusses @ 24″ o.c. max
	L550	1 hr-U 23-min. finish rating	5/8″	SHEETROCK FIRECODE C	N/A	360 sq. in.	Finish floor over T&G plywood subfloor on min.-18″ deep wood truss @ 24″ o.c. max.
Plywood with Steel C-Joists or Light-Gauge Steel Truss	L524	1 hr-R&UR	1/2″ two layers	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over plywood subfloor on min. 7″-deep steel C-joist
	L548	1 hr-R&UR	5/8″ two layers	SHEETROCK FIRECODE C	N/A	N/A	7/8″ T&G plywood on min. 11-3/8″-deep, 16-ga. steel truss @ 24″ o.c. max.
	L549	1 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32″ plywood on light-gauge steel trusses @ 48″ o.c. max.
	L551	1 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32″ plywood on light-gauge steel trusses @ 48″ o.c. max.

Flat Drywall Ceilings

Floor/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Plywood with Steel C-Joists or Light-Gauge Steel Truss (continued)	L552	1 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32″ plywood on light-gauge steel trusses @ 48″ o.c. max.
	L553	1 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32″ plywood on light-gauge steel trusses @ 48″ o.c. max.
	L559	1 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32″ plywood on light-gauge steel trusses @ 48″ o.c. max.
	L560	1 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Finish floor over 23/32″ plywood on light-gauge steel trusses @ 48″ o.c. max.
	L563	1 hr-UR	5/8″	SHEETROCK FIRECODE C	N/A	256 sq. in.	Wood floor; 2x4 open-web wood truss @ 24″ o.c.
	L569	1 hr-UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Wood floor; 2x10 wood joists @ 16″ or 24″ o.c. when battens (item7) are used.
	L570	1 hr-UR	1/2″	SHEETROCK FIRECODE C	N/A	N/A	Wood floor, 9-1/2″-deep wood I-joists @ 19.2″ o.c.
FORTACRETE Panels with Steel C-Joists	G535	1-1/2 & 2 hr UR	5/8″	SHEETROCK FIRECODE C			
	G536	2 hr UR	5/8″ two layers	SHEETROCK FIRECODE C			
	G556	1-1/2 & 2 hr UR	5/8″	SHEETROCK FIRECODE C			
	G557	2 hr UR	5/8″ two layers	SHEETROCK FIRECODE C			
	G558	1 hr R & UR	5/8″	SHEETROCK FIRECODE C			
	G562	2 hr R & UR	5/8″ two layers	SHEETROCK FIRECODE C			

* R = restrained rating
UR = unrestrained rating
UBR = unrestrained beam rating

Fire-Rated Ceiling Assemblies

Flat Drywall Suspesion Ceilings

Floor/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Double Ceiling Roof Assemblies	P237	2-hr-R & UR 2-hr-UBR	1/2″	Sheetrock Firecode C	1x4 (12%), 2x2 (16%), 2x4 (24%), 20″x48″ (20%)	576 sq. in.	Roof system on steel roof deck, min. fiber 8H3 or 10k1 min @ 72″ o.c. max
	P239	1-1/2 hr-R & UR 1-1/2 hr-UBR	1/2″	Sheetrock Firecode C	1x4 (12%), 2x2 (16%), 2x4 (24%), 20″x48″ (20%)	576 sq. in.	Roof covering of gypsum concrete over USG form board, subpurlins and 12J3 joists w/ w6x16 beam.
	P241	2 hr-R & UR	1/2″	Sheetrock Firecode C	1x4 (12%), 2x2 (16%), 2x4 (24%), 209x489 (20%)	576 sq. in.	Roof covering over over insulating concrete on steel roof deck and 10J3 min joists @ 48″ o.c.
Mineral and Fiber Board on Building Units or Precast Concrete	P501	1 and 2 hr-R & UR	5/8″	Sheetrock Firecode C 2P-X2 & 2PC-AR	N/A	N/A	Roof covering over mineral and fiber board on building or precast concrete units, 14J5 joists @ 48″ o.c. max.
Gypsum Plank, Insulation Board	P506	1-1/2 hr-R & UR	5/8″	Sheetrock Firecode C	2x4 (24%)	57 sq in	Roof covering over min & fiber boards. on gypsum planks, subpurlins and 12 H5 joists @48″ o.c. max.
	P508	1 hr-R & UR	5/8″	Sheetrock Firecode C 2P-X2, 1PC-AR, & WRC	2x4 (24%)	144 sq in	Roof covering over min & fiber boards (see alt) gyp wallboard., steel roof deck, 10J4 joists (min) @48″ o.c.
Insulating Concrete	P507	1-1/2 hr-R 1 hr-UR	5/8″	Sheetrock Firecode C	2x4 (24%)	57 sq in	Roof covering on foamed plastic insulation, Gypsum conc and form boards. on subpurlins and 10J4 joists (min) @ 4′o.c.
	P509	1 hr-R & UR 1 hr-R	5/8″	Sheetrock Firecode C	2x4 (24%)	144 sq in	Roof covering on foamed plastic insulation, Gypsum conc. and form boards. on subpurlins and 10J4 joists (min) @ 4′o.c.
Corrugated Steel Deck w/Insulated Board or Foam Plastic Insulation	P510	1 & 1-1/2 hr-R & UR	1/2″ & 5/8″	Sheetrock Firecode C	2x4 (24%)	57 sq in	Roof covering over insulation (see alt) on gypsum wallboard steel roof deck, 10J4 joists (min) @ 72″ o.c. max.
	P513	1-1/2 hr-R & UR	5/8″	Sheetrock Firecode C	2x4 (24%)	144 sq in	Roof covering on insulating concrete and foamed plastic over corrugated steel deck, 10J4 steel joists @ 48″ o.c.
	P514	2 hr-R & UR	5/8″	Sheetrock Firecode C	2x4 (24%)	255 sq in	Roof covering over insulation (see 9 alternatives), gyp. wallboard and steel deck, 8H3 steel joists @ 48″ o.c.
	P516	1 hr-UR	5/8″ (2 layers)	Sheetrock Firecode C	NA	NA	Metal roof deck panels on Min. 8″ deep C-or-Z-shaped purlins @ 60″ max, glass fiber insulation between roof deck panels and steel roof purlins, W-shaped beam
	P518	1 hr-R&UR 1 hr-UB	1/2″ two layers	Sheetrock Firecode C	N/A	N/A	Roof covering over steel deck on min. min. 8″-deep, 18-ga. steel C-joists @ 24″ o.c. max.

Flat Drywall Suspesion Ceilings

Floor/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Engineered Steel or Wood or Roof Truss	P515	1 hr-R&UR	5/8″ two layers	SHEETROCK FIRECODE C	N/A	N/A	Roof covering over mineral and fiber board on steel roof deck over steel roof trusses @ 48″ o.c. max.
	P521	2 hr-R&UR	5/8″ two layers	SHEETROCK FIRECODE C	N/A	N/A	Roof covering over foamed plastic insulation, gypsum wallboard, steel deck on light-gauge steel trusses @ 48″ o.c. max.
	P522	1 hr-UR	5/8″	SHEETROCK FIRECODE C	N/A	196 sq. in.	Roof system over 15/32″ plywood on wood trusses @ 24″ o.c. max.@ 24″ o.c. max.
	P523	1 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32″ plywood on light-gauge steel trusses @ 48″ o.c. max.
	P525	2 hr-R&UR	5/8″ two layers	SHEETROCK FIRECODE C	N/A	N/A	Roof membrane or metal roof deck on foamed plastic insulation, DUROCK® Brand Cement Board or gypsum wallboard over corrugated steel deck on light-gauge steel trusses @ 48″ o.c. max.
	P526	1 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32″ plywood or steel roof deck on light-gauge steel trusses @ 48″ o.c. max.
	P527	1-1/2 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof covering or metal roof deck on foamed plastic insulation, DUROCK® Brand Cement Board or gypsum wallboard over corrugated steel deck on light-gauge steel trusses @ 48″ o.c. max.
	P528	1 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32″ plywood or steel roof deck on light-gauge steel trusses @ 48″ o.c. max.
	P529	1-1/2 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof covering or metal roof deck on foamed plastic insulation, DUROCK® Brand Cement Board or gypsum wallboard over corrugated steel deck on light-gauge steel trusses @ 48″ o.c. max.
	P530	1 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32″ plywood or steel roof deck on light-gauge steel trusses @ 48″ o.c. max.
	P531	1 hr-UR	5/8″	SHEETROCK FIRECODE C	N/A	360 sq. in.	Roof system over 15/32″ plywood on wood trusses @ 24″ o.c. max.
	P534	1 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32″ plywood or steel roof deck on light-gauge steel trusses @ 48″ o.c. max.

Fire-Rated Ceiling Assemblies

Floor/Ceiling	UL Design No.	Assembly Rating*	Board Thick.	Wallboard Core Type	Fixture Size (% of Fixtures)	Max. Duct Area per 100 sf	Assembly Construction Details
Engineered Steel or Wood Roof Truss (continued)	P535	1 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof covering or metal roof deck over mineral and fiber board or foamed plastic insulation, DUROCK® cement board or gypsum wallboard over light-gauge steel trusses @ 48″ o.c. max.
	P536	2 hr-R&UR	5/8″ two layers	SHEETROCK FIRECODE C	N/A	N/A	Roof covering or metal roof deck on foamed plastic insulation, DUROCK® cement board or gypsum wallboard over corrugated steel deck on light-gauge steel trusses @ 48″ o.c. max.
	P537	1 hr-R&UR	5/8″	SHEETROCK FIRECODE C	N/A	N/A	Roof system over 23/32″ plywwod or steel roof deck on light-gauge steel trusses @ 48″ o.c. max.

Notes

General Notes

1. Hanger wire should be located between the main tee splice and the expansion relief notch and a maximum 48″ o.c., or per the requirements of the specific UL design.
2. All 60″ cross tees are to have hanger wires at their midpoint.
3. Assemblies are tested with the method and criteria established in Standard UL 263, also known as A2.1, ASTM E119 and NFPA 251.
4. Hold-down clips are required when fire-rated board weighs less than 1.0 lb./sq. ft.
5. % Fixtures column indicates 24″ x 48″ fixture only, unless noted. Check for suspension requirements.
6. Some designs pertain to DXL only. Contact UL Fire Resistance Directory and revisions to confirm all information listed in these tables.
7. DXLR and ZXLA are also listed by UL.
8. DXL has been used in many other industry fire tests and listed in reports such as the National Evaluation Reports, for example, NER-148 and NER-399 (wood truss constructions).
** Check UL Designs for deck options.

UL Abbrevations
(See UL Directory for details)

R = Restrained assembly
UR = Unrestrained assembly
URB = Unrestrained beam

Firecode Cast Panels
AP or AP-3 = Frost, Glacier, Sandrift
AP-1 or AP-2 = Frost, Glacier, Sandrift

Firecode Panel
FC-CB = Sheetrock Brand Lay-In Ceiling Panel *ClimaPlus*

Firecode Water-Felted Panels
Astro-FR = Astro *ClimaPlus*
FR-X1 = Eclipse *ClimaPlus*, Millennia *ClimaPlus*
FR-83 = Aspen, Fissured, Pebbled *ClimaPlus*, Radar, Radar *ClimaPlus*, Radar *ClimaPlus* High NRC/CAC, Rock Face *ClimaPlus*, Touchstone
FR-4 = Radar Ceramic *ClimaPlus*
M = Clean Room *ClimaPlus*

Report Compliance

L.A. Research Report Compliance
Donn brand suspension systems manufactured by USG Interiors, Inc. comply with one or more of the following L.A. Research Report numbers: 22179, 23541, 24095.

ICBO 2244 and 1939 Research Reports

Warranties and Limitations

Lifetime (30-Year) Limited Warranty

All USG DONN brand suspension systems, when used with any USG ceiling panels or tiles or SHEETROCK brand gypsum lay-in ceiling panels, carry a lifetime (30-year) warranty that our products shall be free from manufacturing defects and that the suspension systems shall be free from the occurrence of 50% red rust as defined by ASTM D610 test procedures for 30 years from the date of installation.

USG ceiling panels and tiles with *CLIMAPLUS* performance are specially formulated to endure environments with up to 100% relative humidity and temperatures up to 104 ˚F. These panels carry a limited warranty against visible sag for 30 years when installed in a DONN suspension system.

Sag resistance is measured under 'Standard Test Method for Strength Properties of Pre-fabricated Architectural Acoustical Tile or Lay-in Ceiling Panels', ASTM C367-05. The Test Method cautions (Section 17.3) that it "is not designed to establish the expected performance of the ceiling panels under field conditions of use, but only the sag properties for the specific temperature, humidity, exposure time and mounting conditions used in the test.

Neither this Test Method nor any other laboratory test we are aware of can predict long-term sag resistance. We do know that the higher the relative humidity and temperature, and the longer the time these conditions prevail, the more susceptible to sag are the ceiling panels. Nevertheless, USG has offered sag resistant ceiling panels for more than 20 years, and we have very rarely received sag complaints. This excellent field performance is expected because the formulations of both core and/or backing, depending on the particular panel, inherently impart sag resistance. Avoidance of extreme temperature and humidity conditions and regular cleaning will enhance sag resistance and all other performance attributes of the ceiling panels.

USG *CLIMAPLUS* ceiling panels with Superior Performance are warranted to be free from the growth of mold, mildew, and Gram-positive and Gram-negative odor- and stain-causing bacteria for 30 years from the date of installation. These ceiling panels include an antimicrobial treatment on the painted surface that contains a mold-inhibiting agent that provides broad-spectrum control for the growth of mold and mildew over the warranty period; these ceiling panels also resist the growth of Gram-positive and Gram-negative odor and stain causing bacteria. *CLIMAPLUS* fiberglass panels and RADAR Ceramic *CLIMAPLUS* ceiling panels do not have Superior Performance antimicrobial treatment; they are warranted to be free from the growth of mold, mildew, and odor- and stain-causing bacteria for 30 years from the date of installation due to the inherent characteristics of the products.

CLEAN ROOM *CLIMAPLUS* and SHEETROCK *CLIMAPLUS* gypsum lay-in panels do not feature the Superior Performance antimicrobial treatment and therefore are not included in the 30-Year Antimicrobial System Warranty.

All USG limited warranties are subject to use under normal conditions. Abnormal conditions include exposure to chemical fumes, vibrations, moisture from conditions such as leaks or condensation, excessive humidity, or excessive dirt or dust buildup.

By "lifetime" we mean the useful life of the ceiling system, up to a maximum of 30 years.

The *ClimaPlus* warranty periods for these and other USG products and systems are as follows:

Warranties

Ceiling Systems	Panel/Tile	Suspension System
ClimaPlus Panels & Tile plus Donn Suspension System	Lifetime 30 Years	Lifetime 30 Years
All other USG Ceiling Panels & Tile plus Donn Suspension System	1 Year	Lifetime 30 Years
USG Specialty Ceilings	1 Year	—

Individual Products	Panel/Tile	Suspension System
ClimaPlus Panels & Tile	10 Years	—
All Other USG Ceiling Panels & Tile	1 Year	—
Donn Suspension Systems	—	10 Years

All warranties are subject to the following terms and conditions:

Who is covered?

Except where stated otherwise on specific product warranties, all USG warranties cover the original owner of the building at the time of installation.

What will USG do?

In the unlikely event of product performance failure, at our election USG will replace the goods or we will refund or credit an amount equal to the (original) purchase price of the goods within warranted conditions.

The building owner is responsible for all costs associated with removal and installation.

What does this warranty not cover?

All ceiling products and systems must be installed and maintained in accordance with current USG written instructions and best industry practice, including the CISCA Handbook and ASTM C636, "Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels." Sheetrock Gypsum Panels used with the USG Drywall Suspension System are not covered.

Also, you must observe the following:

– Care must be taken that the products are not damaged during delivery and while they are stored at the job site.
– The products must always be protected from vibration, direct contact with water including condensation, and chemical fumes, both before and after installation.
– These products may not be used in exterior applications. The only exception is Radar Ceramic *ClimaPlus*, which may be used in exterior soffits.

Except for ceilings with Superior Performance, *ClimaPlus* fiberglass ceiling panels and Radar Ceramic *ClimaPlus* ceiling panels, the growth of mold or bacteria is not covered by this warranty nor is it the responsibility of USG. All products should be maintained to avoid excessive dirt or dust buildup or the presence of excessive moisture that would provide a medium for microbial growth on ceiling panels.

Damage that may occur from vibrations, fire, water, freezing temperature, accident, any form of abuse or exposure to Abnormal Conditions is not covered in this warranty. If subject to Abnormal Conditions, the products should be removed immediately and replaced once the conditions are normal.

Warranties and Limitations

Warranty Conditions

All ceiling products and suspension systems must be installed and maintained in accordance with USG written installation instructions for that product in effect at the time of installation and best industry practice. Prior to, during, and after installation, the ceiling product must be kept clean and dry, and maintained in an environment free of chemical fumes or vibration, not subject to Abnormal Conditions and within the following conditions:

Performance Level	Environmental Limitations
RADAR Ceramic *CLIMAPLUS*	60-104°F (16-40°C) Up to 100% RH
CLIMAPLUS Ceilings	60-104°F (16-40°C) up to 95% RH
Standard Commercial Ceilings	60-85°F (16-29°C) up to 70% RH

For RADAR Ceramic *CLIMAPLUS* ceiling panels: The sag performance warranty extends to installations where the ceiling product is exposed to environments subject to temperatures of 60-104°F (16-40°C), chemical fumes, steam, and up to 100% RH, including standing water applications, so long as the product is installed with either AX or ZXLA suspension systems. For swimming pools, install only with AX or ZXLA suspension systems. For outdoor soffits, canopies and parking garages, install with ZXLA suspension system (wind uplift should be considered).

For all *CLIMAPLUS* products (excludes CLEAN ROOM *CLIMAPLUS* and SHEETROCK gypsum lay-in panels): These ceilings must be maintained to avoid excessive dirt or dust buildup that would provide a medium for microbial growth on these panels or tiles. Microbial protection does not extend beyond the treated surface as received from the factory, and does not protect other materials that contact the treated surface such as supported materials.

Suspension Systems

Prior to, during, and after installation, the suspension systems (excluding DXLA, AX, ZXLA and the USG drywall suspension system) shall be maintained in a temperature range of 60-104 °F (16-40 °C) and relative humidity shall not exceed 90%. DXLA shall be maintained in a temperature range of 60-104 °F (16-40 °C) and relative humidity shall not exceed 95%. AX, ZXLA and the USG Drywall Suspension System shall be maintained in a temperature range from 60-104 °F (16-40 °C) and relative humidity can be up to 100%. The warranty does not cover rusting that occurs from building leaks or condensation.

General notes

The ceiling panels must not be used to support any material including insulation. Where insulation must be used, it should be no heavier than 0.26 lbs./sq. ft. and installed with the following USG recommendations: insulation must be applied perpendicular to the suspension cross tees with the suspension system supporting the weight of the insulation. Insulation is also not recommended to be used as follows: Firecode applications, unless specified and use described by Underwriters Laboratories, Inc. Mold or mildew growth on insulation or placed above the ceiling panel or tile are not covered by this warranty.

This warranty does not cover damage caused by fire, water, accident, or by any form of abuse except normal wear and tear.

Please see USG written instructions about proper maintenance, touch up, and repainting of our ceiling systems. Please note that not all products can be repainted and that repainting will affect acoustical performance, appearance, microbial resistance, fire resistance, and ventilation through the ceiling panels or tiles.

Note

1. RADAR Ceramic ceiling panels with *CLIMAPLUS* performance will withstand corrosive chemical fumes and contain coatings and/or a formulation to inhibit or retard the growth of mold and mildew.

	Normal environmental conditions must prevail to warrant product performance. This warranty will not cover situations where the panels are subject to vibrations or chemical fumes or where moisture comes in contact with the ceiling panel or tile as a result of a leaking roof, a sweating pipe, a leaking radiator, a flood, condensation on windows, condensation on more subtle surfaces where dew points are reached, humidified air from the HVAC system or any other similar causes.
How do you get service?	You must notify USG of the problem within 30 days of the time the problem first became apparent to you at the following address: USG, 550 West Adams Street, Chicago, IL 60661. Please send us any photographs of the problem area as these are often helpful. (Or, call us at 800 950.3839.) We will contact you within 30 days and, if we authorize a replacement or payment, that will be done within 30 days thereafter.
How does state law apply?	This warranty gives you specific legal rights and you may also have other rights, which vary from state to state. Replacement or refunding the purchase price of defective material shall constitute the sole and total obligation of USG. We shall not be responsible for any labor charges or other installation or replacement costs or for incidental or consequential damages of any nature whatsoever. THIS WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES NOT EXPRESSLY SET FORTH HEREIN, WHETHER IMPLIED BY OPERATION OF LAW OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS.

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Safety First!

Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read MSDS and literature before specification and installation.

Notes

All products described here may not be available in all geographic markets. Consult your local sales office or representative for information.

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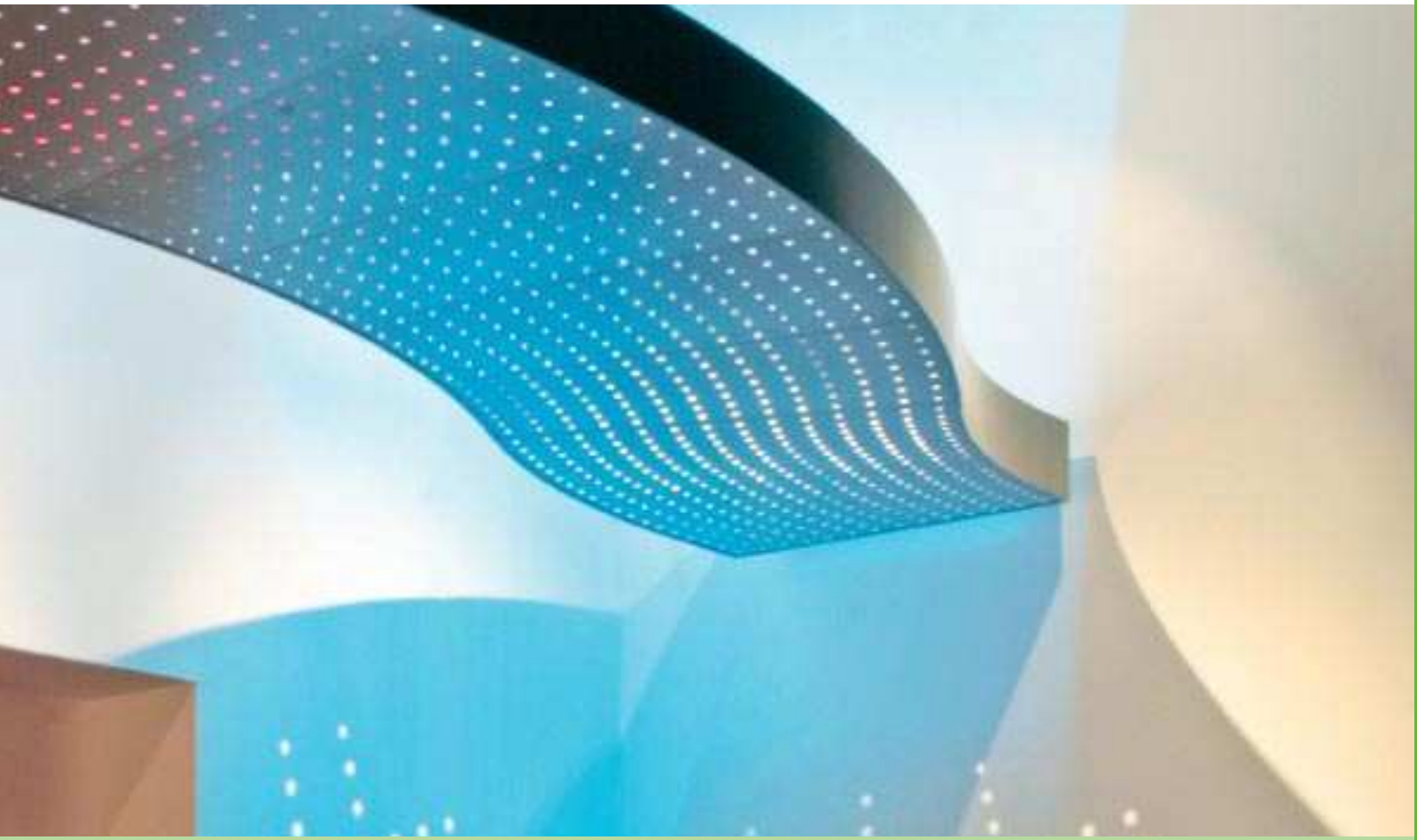

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