

USG
Structural
Solutions

**USG STRUCTO-CRETE® Brand
Structural Panels**

Fire & Acoustic Manual



IT'S YOUR WORLD. BUILD IT.®

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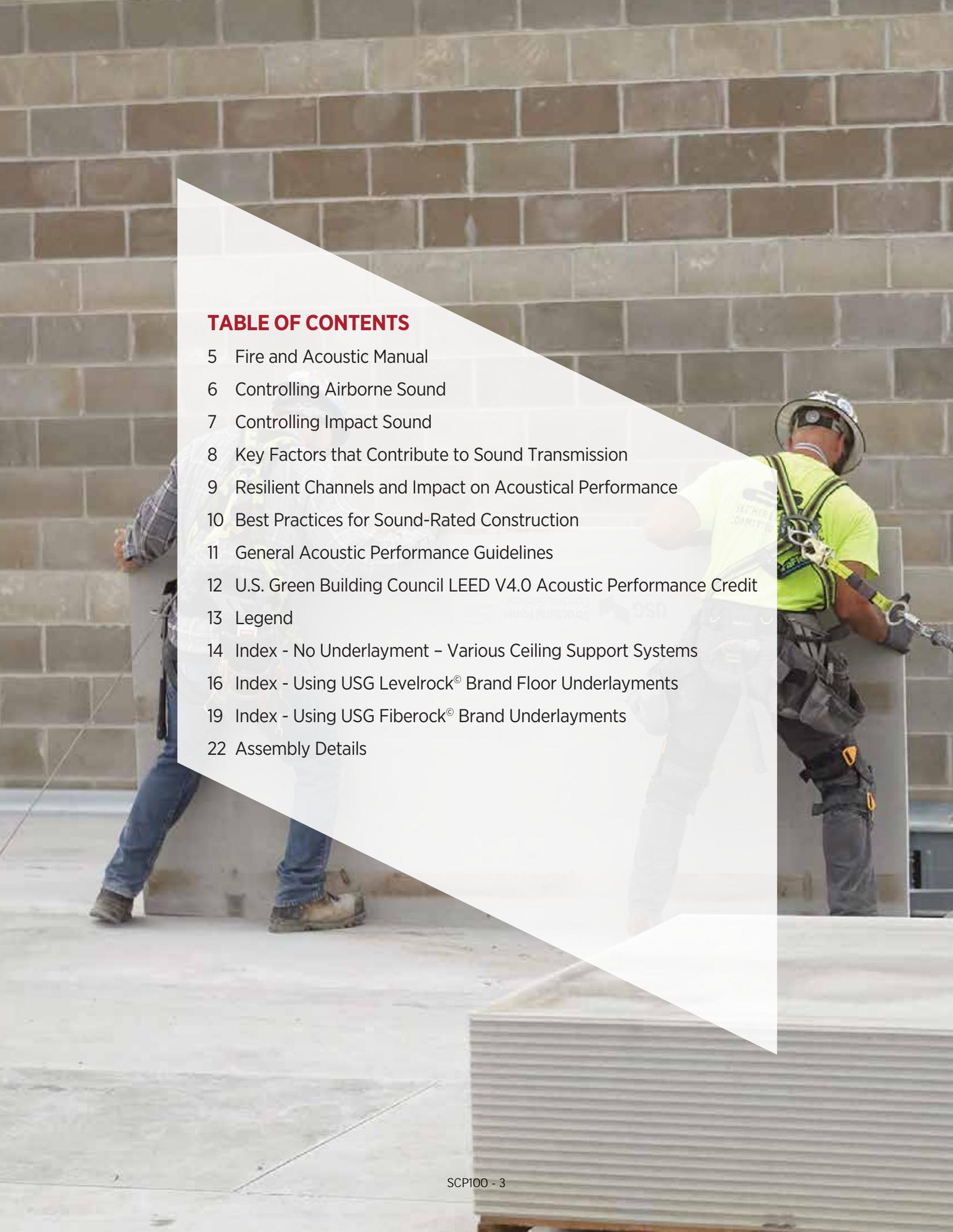


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FIRE & ACOUSTIC MANUAL

The USG STRUCTO-CRETE® Brand Structural Panels Fire & Acoustic Manual (SCP100) is the single source for acoustic ratings for UL-certified floor/ceiling assemblies using **USG STRUCTO-CRETE® Brand Structural Panels (UL type USGSP or Structo-crete)** that includes side-by-side acoustic values (STC & IIC) for many common floor coverings.

The INDEX is divided into two main sections: tested acoustic ratings using **USG Levelrock® Brand Floor Underlayments** and ratings using **USG Fiberock® Brand Underlayments**. Most of the data was obtained from tested floor-ceiling systems, but in some cases, STC and IIC values are estimated based on similar tested assemblies.

Acoustical testing and performance ratings are based upon the following standards:

- **ASTM E90** Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- **ASTM E413** Classification for Rating Sound Insulation
- **ASTM E492** Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine
- **ASTM E989** Standard Classification for Determination of Impact Insulation Class (IIC)
- **ASTM E2235** Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods

SCP100 will be updated often, so please bookmark the online address at www.USGSCP100.com to allow easy and often access.

CONTROLLING AIRBORNE SOUND¹

Airborne sound is sound that originates as a pressure wave in air from a source, such as a fan, a stereo system, or a person talking. When airborne sound energy impinges upon a partition, such as a floor-ceiling assembly, that energy sets the assembly in motion, enabling the sound to transmit through the floor. A floor-ceiling assembly's ability to resist or reduce transmission of airborne sound is determined by the measured Sound Transmission Class (STC). The minimum STC for any floor-ceiling assembly is determined by local codes. The layers and components present in a floor-ceiling assembly can be configured, adjusted, or enhanced in various ways to influence STC performance. Among the most important factors used for sound control are:

- **Mass:** Sound waves must overcome the mass (weight) of any material(s) in a floor-ceiling assembly before the particles of that assembly can be set into motion to transmit sound into an adjacent space. Depending upon the floor-ceiling assembly, mass may be a factor in the reduction of airborne sound transmission. For example, increasing the number of drywall ceiling layers in an assembly will increase STC and reduce sound transmission between vertically-adjacent spaces.
- **Damping:** In terms of airborne sound transmission, damping is the dissipation of vibrational energy within an assembly. One method of damping is adding fibrous sound absorbing material (e.g. insulation) into the framing cavities to dissipate sound energy and increase the STC of the assembly. The type, thickness, and density of insulation added will influence STC performance. Not all insulations deliver equivalent acoustical performance. Refer to insulation technical specifications for acoustic performance and check published fire designs for insulation use.
- **Leaks:** Any leak in a floor-ceiling assembly that will allow air or light to pass will also leak sound. Small holes in floor panels, unsealed gaps around plumbing, or riser vents are all examples of leaks that will allow sound to pass, reducing the STC performance of the assembly. Please refer to the USG Gypsum Construction Handbook sections on "Acoustical Sealants" and "Acoustical Caulking" for more information on addressing leaks through assemblies. [See also USG SHEETROCK® BRAND ACOUSTICAL SEALANT.](#)
- **Flanking Paths:** Sound waves have sufficient energy to set an assembly or material in motion. That means that sound can bypass a STC-rated floor-ceiling assembly by activating the walls, structure, and other building elements, which can represent significant sound transmission or flanking paths. Generally, monolithic poured concrete floors provide continuous pathways for sound energy to transmit, whereas panelized flooring assemblies fastened to framing have discontinuities making it more difficult for sound transmission and flanking.
- **Decoupling:** An assembly's ability to reduce airborne sound transmission can be increased by decoupling layers or components within the assembly. Acoustic decoupling is often achieved by introducing resilient layers and resilient connections between assembly components. Under floor sound mats, resilient channels, and drywall suspension grid are examples of acoustic decoupling methods, which can increase the STC of an assembly. [See USG Drywall Suspension System.](#)

Note:

¹ Portions excerpted with permission from the publisher, Wiley, from *The Gypsum Construction Handbook—Seventh Edition* by USG Corporation. Copyright © 2014.

CONTROLLING IMPACT SOUND

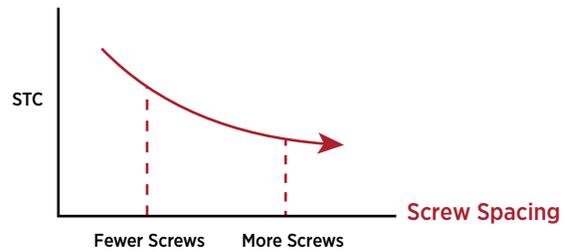
Impact sound is the sound generated from contact of an object with the floor of a floor-ceiling assembly. Examples of impact sound are human footsteps, a bouncing ball, dropping a toy or a frying pan, or moving furniture. The energy generated from these impacts transmits through the assembly and radiates in the space below as audible noise. The degree to which a floor-ceiling assembly resists the transmission of impact sound energy is defined by the measured Impact Insulation Class, or IIC rating. Isolating the energy at or close to the point of impact has proved to be a successful method in reducing transmission of impact sounds. Similar to airborne-sound in the section above, layers and elements making up the floor-ceiling assembly can be configured or enhanced to influence an assembly's IIC performance. Among the most important factors used for impact sound control are:

- **Isolation:** The most effective method for reducing impact sound transmission through an assembly is to isolate the energy at or close to the point of impact so as to minimize the amount of energy imparted to the structure. As such, floor coverings can be highly influential in an assembly's IIC performance. Carpet and pad, for example, effectively absorbs energy at the point of impact and, in nearly every case, yields high IIC values. In this manual, IIC values are shown for a variety of floor coverings.
- **Sound Isolation Mats:** When the floor covering itself is not sufficient to attenuate impact energy, sound isolation mats are often required to meet code minimums. Sound isolation mats are usually placed on top of the subfloor and below floor underlayment. For example, **USG Levelrock® Brand Floor Underlayment** on top of a supporting **USG Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat**, reduces the amount of impact energy imparted to the structure and improves IIC performance of the assembly. Thin mats (less than 10mm) are most effective at high frequencies. To improve low-frequency impact sound attenuation, thicker isolation mats (usually paired with additional floor mass) are often required. For isolation of heavy impacts, such as barbells or industrial machinery, specialized solutions are typically required.
- **Framing & Spacing:** Framing member type, size, and spacing can affect how impact energy transmits through an assembly. Generally, deeper framing members will yield higher IIC performance than shallower members, and framing members spaced further apart will yield higher IIC performance than members spaced closely together. The use of Resilient Channels (**RC**) or Drywall Suspension System (**DWSS**) can mitigate reduction in acoustic performance due to framing spacing.
- **Mass, Damping, Leaks and Flanking Paths:** As described in the *Controlling Airborne Sound* section above, mass (adding another layer of drywall to the ceiling), damping (adding insulation into the plenum space of the floor-ceiling assembly), leaks, and flanking paths all affect impact sound transmission similarly to airborne sound and many of the same transmission mitigation techniques apply.

KEY FACTORS THAT CONTRIBUTE TO SOUND TRANSMISSION

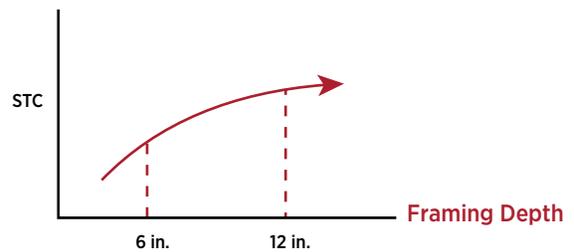
SCREW SPACING

Screws spaced closer together will decrease STC and sound isolation.



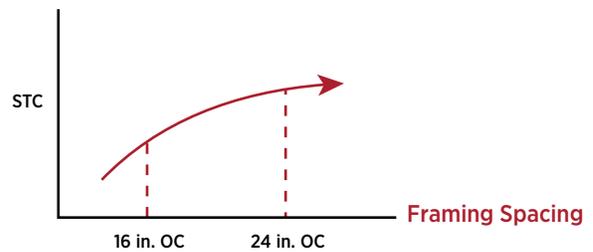
FRAMING DEPTH

Greater depth allows for more air space and increased performance.



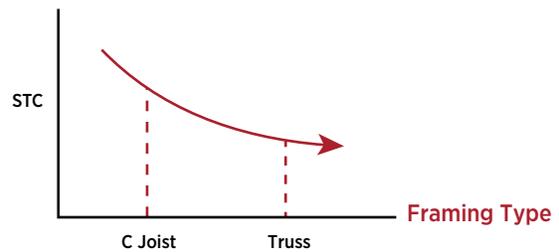
FRAMING SPACING

Wider spacing reduces connection points between floor and ceiling layers for better sound isolation.



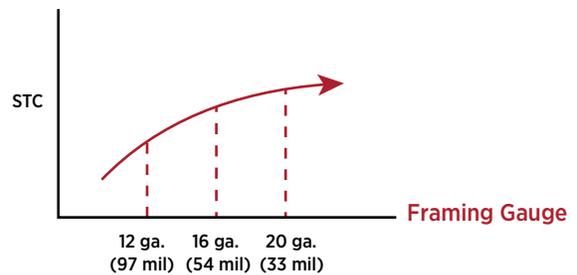
FRAMING TYPE

Steel C joists have solid webs that allow sound to transmit more easily than trusses.



FRAMING GAUGE

Light gauge framing provides better sound isolation than heavy gauge.



RESILIENT CHANNELS AND IMPACT ON ACOUSTICAL PERFORMANCE

One of the most effective products for reducing the transmission of airborne sound through wall or floor-ceiling assemblies is the resilient channel. Its fundamental purpose is to decouple the gypsum board from the framing members, thus improving noise isolation by reducing sound transmission loss.

In the 1960s, USG developed the industry's first resilient channel, designated "RC-1." A critical component of its design was the location of the framing member in relation to the slotted (or "dog bone") holes. Specifically, there were 1/8-in.-diameter holes every four inches for screws to attach the channel to the framing members. From an installation standpoint, these slotted holes were always centered on the framing members to ensure maximum acoustical performance. Over the years there have been numerous imitations, and while most use 25-gauge steel, other design variables such as width, shape and hole pattern were always different.

In the early 1990s, USG sold the rights the original RC-1 design. Since then, the USG RC-1 has been rebranded and sold under the name **ClarkDietrich RC Deluxe™**, while the RC-1 designation has become a generic descriptor of resilient channels.

Of the resilient channels currently on the market, the ClarkDietrich RC Deluxe™ is the closest to the USG RC-1 design. It retains many of the original design characteristics, such as the "dog bone" slots that are centered on pre-punched screw holes in the flange, as well as an extra-wide 1-1/2 in. flange that simplifies the installation of gypsum board.

From an acoustical perspective, there is ample evidence that the brand of resilient channel can make a significant difference in the overall performance of the assembly. Veneklasen Associates, one of the oldest and most respected acoustical consulting firms in the world, performed controlled laboratory tests on the effects of resilient channel brands and installation methods on airborne sound isolation in single stud wall construction². For comparison, airborne transmission loss testing was conducted using ASTM E90 for a wood stud assembly that's commonly encountered in multifamily residential projects. Their data shows that the ClarkDietrich RC Deluxe™ achieved STC ratings between 3-7 points higher than the other channels, with differences of up to 10 dB at some third-octave bands.

Due to its superior acoustical performance and relative installation ease, USG has been conducting acoustical laboratory testing using the ClarkDietrich RC Deluxe™ for several years. It is strongly recommended that before specifying or installing a different resilient channel brand, one should first thoroughly research its acoustical performance data.

Note:

2. Excerpted from LoVerde, John, Dong, Wayland (2009), *Quantitative comparisons of resilient channel designs and installation methods*, *Inter-Noise 2009*.

BEST PRACTICES FOR SOUND-RATED CONSTRUCTION

It is important to follow best practices for sound control design and installation in order to obtain optimal installed acoustical performance. A basic rule is that sound performance is compromised any place where air can pass. Best practices include but are not limited to:

- All floor perimeters (intersection between partition walls and floors) covered with a baseboard and all ceiling perimeters (intersection between partition wall and ceiling) not covered with joint compound and tape shall be sealed with **USG Sheetrock® Brand Acoustical Sealant**, including between the floor and the base of the gypsum panels..
- The number and size of penetrations in a floor-ceiling assembly should be minimized and all openings should be completely sealed. Please note that for fire rated floor-ceiling assemblies, membrane-penetration fire stops of through-penetration fire stops should be specified.
- Use lightweight steel framing instead of wood joists to transmit less sound energy.
- Add fiberglass or mineral wool sound control insulation in the framing cavities.
- Use resilient channels or drywall suspension grid to structurally isolate the gypsum panel ceilings from the framing.
- Use sound control underlayment, isolation mats or carpet on pad to reduce impact of sound transmission in floor-ceiling assemblies.

More specific information regarding sound control design and construction can be found in the ***USG Gypsum Construction Handbook and Gypsum Association's Fire Resistance Design Manual (GA-600)***. You can receive your own copy of the current GA-600 by emailing your request to USGStructural@usg.com (while supplies last).

GENERAL ACOUSTIC PERFORMANCE GUIDELINES

While some differences in Sound Transmission Class (STC) value may be seen in the comparison data for floor-ceiling assemblies, the differences are minimal and likely due to standard variations³ in laboratory testing. Additionally, it has been found that the human ear cannot detect variances in sound levels that are less than 3 dB, as shown in the following chart.

Change in Sound Level	Change in Apparent Loudness
1-2 dB	Indiscernible
3 dB	Just perceptible
5 dB	Clearly noticeable
10 dB	Twice as loud (or quiet)
20 dB	Four times as loud (or quiet)

Note:

3. Based on an interlaboratory comparison, the reproducibility standard deviation for reference specimens tested per ASTM E90, *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Element*, was found to be 2 dB or less in the test frequency range.

U.S. GREEN BUILDING COUNCIL LEED® V4.0 ACOUSTIC PERFORMANCE CREDIT

Intent: To provide occupied spaces, offices and classrooms that promote occupants' well-being, productivity and communications through effective acoustic design.

Requirements: All occupied spaces in new construction must meet the following requirements, as applicable, for HVAC background noise, sound isolation, reverberation time, and sound reinforcement and masking.

Sound Transmission: Meet the composite sound transmission class (STC) ratings listed in the below table, or local building code, whichever is more stringent.

Minimum STC for Adjacent Spaces		STC Minimum ⁴
Multifamily residence, hotel and motel	Residence, hotel or motel	55
Residence, hotel or motel	Common hallway, stairway	50
Residence, hotel or motel	Retail	60
Standard office	Standard office	45
Executive office	Executive office	50
Conference room	Conference room	50
Office, conference room	Hallway, stairway	50
Mechanical room	Occupied area	60

Note:

4. Excerpted from LEED® v4.0 *Building Design and Construction Rating System Guide* by U.S. Green Building Council. Published April 14, 2017.

LEGEND

USG DESIGN NUMBER The acoustic file number for the tested system in question

FIRE RATING (HOUR) The UL-certified hourly floor/ceiling fire rating

UL FIRE DESIGN The UL floor/ceiling design name (e.g. H505)

FLOOR COVERINGS (STC/IIC)

BARE - UL design floor/ceiling assembly without any underlayment, sound mats or floor coverings

CARPET & PAD - 0.5" (12mm) Shaw ECO Beauty carpet with 0.4" (10mm) Shaw Support PLS7/16

CARPET ONLY - 0.5" (12mm) Shaw ECO Beauty carpet

SHEET VINYL - 0.07" (1.7mm) Shaw Home Front sheet vinyl

SHEET VINYL WITH BACKER - 0.1" Tarkett Moxie™ sheet vinyl with 1mm padded backer

VCT - 0.13" Armstrong Standard Excelon® vinyl composition tile

LVT - 0.16" Mannington Spacia® luxury vinyl tile

LVT2 - 0.08" (2mm) Shaw Expo luxury vinyl tile

LVT5 - 0.2" (5mm) Mohawk Hot and Heavy® luxury vinyl tile

LVT5.5 - 0.22" (5.5mm) Shaw Como luxury vinyl tile

LAMINATE - 0.39" Pergo XP Haley Oak laminate flooring

1/2" THICK ENG. WOOD - 1/2" Vintage Floors wood flooring

12"X12" CERAMIC TILE - 0.31" Daltile ceramic tile

CEILING SUPPORT SYSTEM - The drywall ceilings are supported by:

DWSS6 - Framed drywall suspension system with min. 6" drop

(see UL design for specific composition)

RC - 1/2" deep 25 gauge RC Deluxe™ resilient channels

WF - Min. 18 SG steel wire supporting min. 20 MSG galv. furring channel

CEILING COMPOSITION - Type of drywall used for ceiling construction

ULIX1 - Single layer of 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X (Type ULIX™)

ULIX2 - Double layer of 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X (Type ULIX™)

C1 - Single layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)

C2 - Double layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)

USGSP - 3/4" thick USG STRUCTO-CRETE® Brand Structural Panels

USGSP/ULIX 1 - 3/4" thick USG STRUCTO-CRETE® Brand Structural Panels and Single layer of 5/8" USG Sheetrock® EcoSmart Panels Firecode® X (Type ULIX™)

LEVELROCK® Brand SOUND MAT - Type of acoustic mat used

N25 Ultra - USG Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat using 1" thick

USG Levelrock® Brand 2500 Series Floor Underlayment

NOTE:

Acoustic values are for 10" deep c-joists. Some UL designs allow for minimum 8" deep joists, not tested here.

INDEX 10" C-Joist – No Underlayment – Various Ceiling Support Systems

USG DESIGN NUMBER	HOUR	UL	FLOOR COVERING (STC/IC)											CEILING SUPPORT SYSTEM	CEILING COMPOSITION	
FIRE RATING	UL FIRE DESIGN	BARE	CARPET & PAD	CARPET ONLY	SHEET VINYL	SHEET VINYL WITH BACKER	VCT	LVT	LAMINATE	1/2" THICK ENG. WOOD	12" X12" CERAMIC TILE					
i9041.01	2	H505	54/27												RC	ULIX1
J4242.01	1.5	G556	54/29												RC	C1
i9041.62	2	G557	55/32												RC	ULIX2
J4242.40	2	G557	56/32												RC	C2
i8399.34	1.5	G556	57/37												DWSS6	C1
i6510.21	2	G557	59/41												DWSS6	ULIX2
i9258.01	2	G557	60/41												DWSS6	C2
i9043.28	2	G602	54/33												WF	USGSP
i9041.02	2	H505		56/71											RC	ULIX1
J4242.03	1.5	G556		57/73											RC	C1
i9041.63	2	G557		57/74											RC	ULIX2
J4242.42	2	G557		59/76											RC	C2
i8399.35	1.5	G556		58/69											DWSS6	C1
i6510.22	2	G557		59/74											DWSS6	ULIX2
i9258.03	2	G557		61/75											DWSS6	C2
i9043.29	2	G602		56/72											WF	USGSP
i9041.03	2	H505			55/51										RC	ULIX1
J4242.02	1.5	G556			55/53										RC	C1
i9041.64	2	G557			56/54										RC	ULIX2
J4242.41	2	G557			57/56										RC	C2
i6510.30	1.5	G556			56/52										DWSS6	C1
i6510.23	2	G557			59/56										DWSS6	ULIX2
i9258.02	2	G557			60/57										DWSS6	C2
i9043.30	2	G602			55/53										WF	USGSP

[Click on USG DESIGN NUMBER to see detail Design Page](#)

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INDEX 10" C-Joist - Levelrock® Brand Underlayment - Resilient Channels

USG DESIGN NUMBER	HOUR	UL	FLOOR COVERING (STC/IC)										RC	ULIX	N25 Ultra					
FIRE RATING	UL FIRE DESIGN	BARE	CARPET & PAD	CARPET ONLY	SHEET VINYL	SHEET VINYL WITH BACKER	VCT	LVT2	LVT5	LVT5.5	LAMINATE	1/2" THICK ENG. WOOD	12"X12" CERAMIC TILE	CEILING SUPPORT SYSTEM	CEILING COMPOSITION	LEVELROCK® BRAND SOUND MAT				
M6860.39	2	H505/G556	57/51														RC	ULIX 1	N25 Ultra	
M6860.40	2	H505/G556		58/76														RC	ULIX 1	N25 Ultra
M6860.41	2	H505/G556			58/60													RC	ULIX 1	N25 Ultra
M6860.42	2	H505/G556				57/53												RC	ULIX 1	N25 Ultra
M6860.43	2	H505/G556					56/54											RC	ULIX 1	N25 Ultra
M6860.44	2	H505/G556						58/54										RC	ULIX 1	N25 Ultra
M6860.45	2	H505/G556							58/52									RC	ULIX 1	N25 Ultra
M6860.46	2	H505/G556								57/54								RC	ULIX 1	N25 Ultra
M6860.47	2	H505/G556									58/53							RC	ULIX 1	N25 Ultra
M6860.48	2	H505/G556										57/55						RC	ULIX 1	N25 Ultra
M6860.49	2	H505/G556											57/55					RC	ULIX 1	N25 Ultra
M6860.50	2	H505/G556												59/53				RC	ULIX 1	N25 Ultra
M6860.51	2	G557	58/54															RC	ULIX 2	N25 Ultra
M6860.52	2	G557		58/78														RC	ULIX 2	N25 Ultra
M6860.53	2	G557			58/63													RC	ULIX 2	N25 Ultra
M6860.54	2	G557				57/55												RC	ULIX 2	N25 Ultra
M6860.55	2	G557					57/57											RC	ULIX 2	N25 Ultra
M6860.56	2	G557						59/56										RC	ULIX 2	N25 Ultra
M6860.57	2	G557							58/55									RC	ULIX 2	N25 Ultra
M6860.58	2	G557								58/57								RC	ULIX 2	N25 Ultra
M6860.59	2	G557									58/56							RC	ULIX 2	N25 Ultra
M6860.60	2	G557										58/58						RC	ULIX 2	N25 Ultra
M6860.61	2	G557											59/59					RC	ULIX 2	N25 Ultra
M6860.62	2	G557												60/55				RC	ULIX 2	N25 Ultra

[Click on USG DESIGN NUMBER to see detail Design Page](#)
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INDEX 10" C-Joist - Levelrock® Brand Underlayment - Drywall Suspension System

USG DESIGN NUMBER	HOUR	UL	FLOOR COVERING (STC/IC)										CEILING SUPPORT SYSTEM	CEILING COMPOSITION	LEVELROCK® BRAND SOUND MAT				
			FIRE RATING	UL FIRE DESIGN	BARE	CARPET & PAD	CARPET ONLY	SHEET VINYL	SHEET VINYL WITH BACKER	VCT	LVT2	LVT5	LVT5.5	LAMINATE	1/2" THICK ENG. WOOD	12" X12" CERAMIC TILE			
M9962.60	2	H505/G556	60/55														DWSS6	ULIX 1	N25 Ultra
M9962.61	2	H505/G556		60/82													DWSS6	ULIX 1	N25 Ultra
M9962.62	2	H505/G556			61/64												DWSS6	ULIX 1	N25 Ultra
M9962.63	2	H505/G556				60/57											DWSS6	ULIX 1	N25 Ultra
M9962.64	2	H505/G556					60/59										DWSS6	ULIX 1	N25 Ultra
M9962.65	2	H505/G556						61/57									DWSS6	ULIX 1	N25 Ultra
M9962.66	2	H505/G556							61/56								DWSS6	ULIX 1	N25 Ultra
—	2	H505/G556										—					DWSS6	ULIX 1	N25 Ultra
M9962.67	2	H505/G556											61/56				DWSS6	ULIX 1	N25 Ultra
M9962.68	2	H505/G556												61/57			DWSS6	ULIX 1	N25 Ultra
M9962.69	2	H505/G556													61/57		DWSS6	ULIX 1	N25 Ultra
M9962.70	2	H505/G556														61/58	DWSS6	ULIX 1	N25 Ultra
M9962.71	2	G557	61/57														DWSS6	ULIX 2	N25 Ultra
M9962.72	2	G557		61/84													DWSS6	ULIX 2	N25 Ultra
M9962.73	2	G557			61/68												DWSS6	ULIX 2	N25 Ultra
M9962.74	2	G557				61/60											DWSS6	ULIX 2	N25 Ultra
M9962.75	2	G557					61/61										DWSS6	ULIX 2	N25 Ultra
M9962.76	2	G557						62/60									DWSS6	ULIX 2	N25 Ultra
M9962.77	2	G557							61/58								DWSS6	ULIX 2	N25 Ultra
—	2	G557															DWSS6	ULIX 2	N25 Ultra
M9962.78	2	G557											61/59				DWSS6	ULIX 2	N25 Ultra
M9962.79	2	G557												61/60			DWSS6	ULIX 2	N25 Ultra
M9962.80	2	G557													61/61		DWSS6	ULIX 2	N25 Ultra
M9962.81	2	G557														62/60	DWSS6	ULIX 2	N25 Ultra

[Click on USG DESIGN NUMBER to see detail Design Page](#)

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INDEX 10" C-Joist - 1/4" Fiberock® Brand Underlayments - Resilient Channel

USG DESIGN NUMBER	HOUR	UL	FLOOR COVERING (STC/IC)											CEILING SUPPORT SYSTEM	CEILING COMPOSITION			
			FIRE RATING	UL FIRE DESIGN	BARE	CARPET & PAD	CARPET ONLY	SHEET VINYL	SHEET VINYL WITH BACKER	VCT	LVT	LAMINATE	1/2" THICK ENG. WOOD	12"X12" CERAMIC TILE				
i9041.01	2	H505			54/27												RC	ULIX 1
i9041.02	2	H505				56/71											RC	ULIX 1
i9041.03	2	H505					55/51										RC	ULIX 1
J4242.23	2	H505						57/52									RC	ULIX 1
J4242.31	2	H505						58/53									RC	ULIX 1
J4242.39	2	H505							58/55								RC	ULIX 1
J4242.24	2	H505							57/54								RC	ULIX 1
J4242.32	2	H505							58/54								RC	ULIX 1
J4242.26	2	H505								57/50							RC	ULIX 1
J4242.34	2	H505								58/53							RC	ULIX 1
J4242.25	2	H505									57/50						RC	ULIX 1
J4242.33	2	H505									58/53						RC	ULIX 1
J4242.30	2	H505										58/50					RC	ULIX 1
J4242.38	2	H505											59/51				RC	ULIX 1
J4242.27	2	H505												57/50			RC	ULIX 1
J4242.35	2	H505													57/52		RC	ULIX 1
J4242.36	2	H505														59/54	RC	ULIX 1
i9041.62	2	G557			55/32												RC	ULIX 2
i9041.63	2	G557				57/72											RC	ULIX 2
i9041.64	2	G557					56/54										RC	ULIX 2
J4242.62	2	G557						58/54									RC	ULIX 2
J4242.70	2	G557						59/56									RC	ULIX 2
J4242.63	2	G557							58/57								RC	ULIX 2
J4242.71	2	G557							59/57								RC	ULIX 2
J4242.65	2	G557								59/53							RC	ULIX 2
J4242.73	2	G557								59/56							RC	ULIX 2
J4242.64	2	G557									59/53						RC	ULIX 2
J4242.72	2	G557									59/56						RC	ULIX 2
J4242.69	2	G557										58/53					RC	ULIX 2
J4242.77	2	G557										61/55					RC	ULIX 2
J4242.66	2	G557											58/52				RC	ULIX 2
J4242.74	2	G557												59/55			RC	ULIX 2
J4242.75	2	G557													60/57		RC	ULIX 2

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INDEX 10" C-Joist - 1/4" Fiberock® Brand Underlayments - Resilient Channel

USG DESIGN NUMBER	HOUR	UL	FIRE RATING	UL FIRE DESIGN	BARE	CARPET & PAD	CARPET ONLY	SHEET VINYL	SHEET VINYL WITH BACKER	VCT	LVT	LAMINATE	1/2" THICK ENG. WOOD	12"X12" CERAMIC TILE	CEILING SUPPORT SYSTEM	CEILING COMPOSITION	
J4242.01	1.5	G556			54/29											RC	C1
J4242.03	1.5	G556					57/73									RC	C1
J4242.02	1.5	G556						55/53								RC	C1
J4242.04	2	G556							58/53							RC	C1
J4242.12	2	G556							59/53							RC	C1
J4242.05	2	G556								57/54						RC	C1
J4242.13	2	G556								59/55						RC	C1
J4242.07	2	G556									58/52					RC	C1
J4242.15	2	G556									60/53					RC	C1
J4242.06	2	G556										58/52				RC	C1
J4242.14	2	G556										60/53				RC	C1
J4242.11	2	G556											59/54			RC	C1
J4242.19	2	G556											59/53			RC	C1
J4242.08	2	G556												57/50		RC	C1
J4242.16	2	G556												59/53		RC	C1
J4242.17	2	G556													60/54	RC	C1
J4242.40	2	G557			56/32											RC	C2
J4242.42	2	G557					59/76									RC	C2
J4242.41	2	G557						57/56								RC	C2
J4242.43	2	G557							60/57							RC	C2
J4242.51	2	G557							61/58							RC	C2
J4242.44	2	G557								59/58						RC	C2
J4242.52	2	G557								61/58						RC	C2
J4242.46	2	G557									60/54					RC	C2
J4242.54	2	G557									61/58					RC	C2
J4242.45	2	G557										60/55				RC	C2
J4242.53	2	G557										61/57				RC	C2
J4242.50	2	G557											60/55			RC	C2
J4242.58	2	G557											61/57			RC	C2
J4242.47	2	G557												59/55		RC	C2
J4242.55	2	G557												60/57		RC	C2
J4242.48	2	G557													59/51	RC	C2
J4242.56	2	G557													61/59	RC	C2

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INDEX 10" C-joint - 1/4" Fiberock® Brand Underlayments - Drywall Suspension System

USG DESIGN NUMBER	HOUR	UL	FIRE RATING	UL FIRE DESIGN	BARE	CARPET & PAD	CARPET ONLY	SHEET VINYL	SHEET VINYL WITH BACKER	VCT	LVT	LAMINATE	1/2" THICK ENG. WOOD	12"X12" CERAMIC TILE	CEILING SUPPORT SYSTEM	CEILING COMPOSITION	
i6510.21	2	G557			59/41											DWSS6	ULIX 2
i6510.22	2	G557				59/74										DWSS6	ULIX 2
i6510.23	2	G557					59/56									DWSS6	ULIX 2
i6510.24	2	G557						60/57								DWSS6	ULIX 2
i6510.25	2	G557							61/58							DWSS6	ULIX 2
i6510.26	2	G557								61/59						DWSS6	ULIX 2
i6510.27	2	G557									61/58					DWSS6	ULIX 2
i8399.34	1.5	G556			57/37											DWSS6	C 1
i8399.35	1.5	G556				58/69										DWSS6	C 1
i6510.30	1.5	G556					56/52									DWSS6	C 1
i8399.37	2	G556						60/56								DWSS6	C 1
i8399.36	2	G556							60/56							DWSS6	C 1
i6510.33	2	G556								60/58						DWSS6	C 1
i6510.34	2	G556									59/56					DWSS6	C 1
i8399.38	2	G556										60/52				DWSS6	C 1
i8399.39	2	G556											60/55			DWSS6	C 1
i8399.40	2	G556												61/53		DWSS6	C 1
i9258.01	2	G557			60/41											DWSS6	C 2
i9258.03	2	G557				61/75										DWSS6	C 2
i9258.02	2	G557					60/57									DWSS6	C 2
i9258.06	2	G557						61/59								DWSS6	C 2
i9258.05	2	G557							62/59							DWSS6	C 2
i9258.07	2	G557								62/59						DWSS6	C 2
i9258.04	2	G557									61/59					DWSS6	C 2
i9258.09	2	G557										61/54				DWSS6	C 2
i9258.08	2	G557											62/59			DWSS6	C 2
i9258.11	2	G557												62/59		DWSS6	C 2

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INDEX 10" C-Joist - 1/4" Fiberock® Brand Underlayments - USG STRUCTO-CRETE® Brand Structural Panels

USG DESIGN NUMBER	FIRE RATING	UL FIRE DESIGN	HOUR	UL	FLOOR COVERING (STC/IIC)										CEILING COMPOSITION	CEILING SUPPORT SYSTEM		
					BARE	CARPET & PAD	CARPET ONLY	SHEET VINYL	SHEET VINYL WITH BACKER	VCT	LVT	LAMINATE	1/2" THICK ENG. WOOD	12"X12" CERAMIC TILE				
i9043.28			2	G602	54/33												WF	USGSP
i9043.29			2	G602		56/72											WF	USGSP
i9043.30			2	G602			55/53										WF	USGSP
i9043.31			2	G602				56/53									WF	USGSP
i9043.39			2	G602				60/54									WF	USGSP
i9043.47			2	G602				58/53									WF	USGSP
i9043.32			2	G602					57/54								WF	USGSP
i9043.40			2	G602					59/53								WF	USGSP
i9043.48			2	G602					58/55								WF	USGSP
i9043.34			2	G602						57/53							WF	USGSP
i9043.42			2	G602						60/55							WF	USGSP
i9043.50			2	G602						58/53							WF	USGSP
i9043.33			2	G602							57/52						WF	USGSP
i9043.41			2	G602							60/55						WF	USGSP
i9043.49			2	G602							58/52						WF	USGSP
i9043.38			2	G602								58/55					WF	USGSP
i9043.46			2	G602								60/53					WF	USGSP
i9043.54			2	G602								59/56					WF	USGSP
i9043.35			2	G602									57/52				WF	USGSP
i9043.43			2	G602									59/54				WF	USGSP
i9043.51			2	G602									58/53				WF	USGSP
i9043.36			2	G602										58/51			WF	USGSP
i9043.44			2	G602										60/55			WF	USGSP
i9043.52			2	G602										59/50			WF	USGSP

[Click on USG DESIGN NUMBER to see detail Design Page](#)

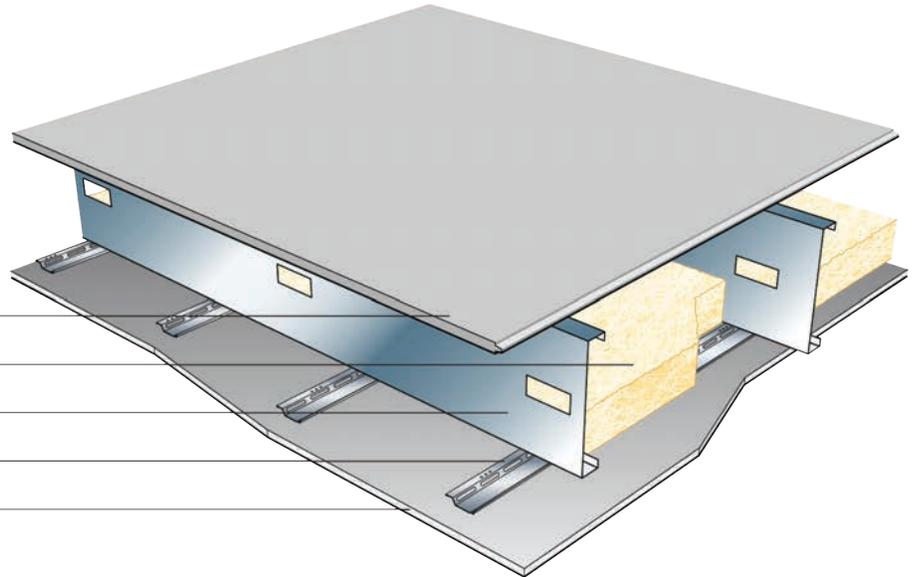
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Bare

2-hour Fire Design

UL Fire Design H505 | GA File No. FC 1903

www.ULH505.com



3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Sound Isolation Material	STC	IIC	USG Design No.
N/A	54	27	i9041.01

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil.(16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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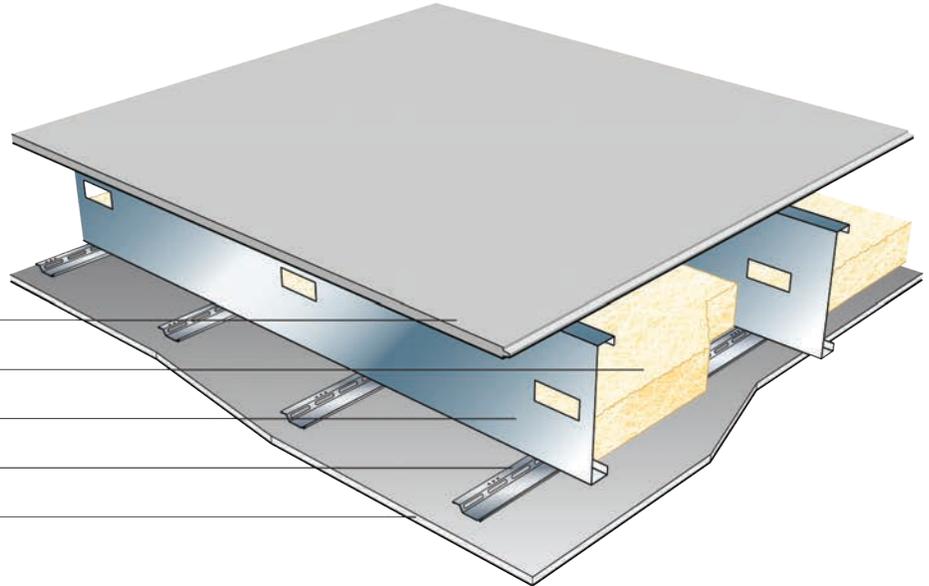
Bare

1.5-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

www.ULG556.com

- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
N/A	54	29	J4242.01

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

Made in Delavan, WI, USA

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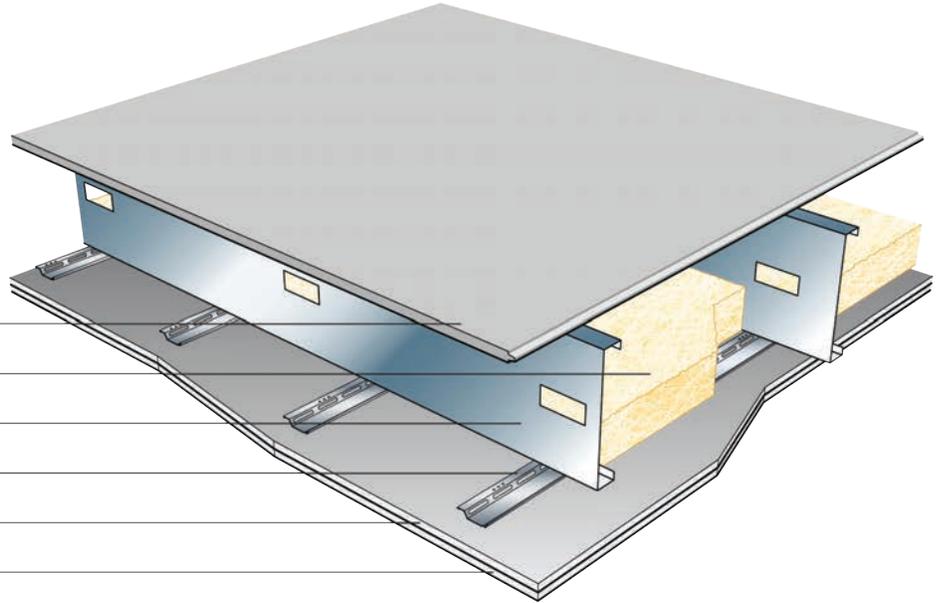
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Bare

2-hour Fire Design

UL Fire Design G557

www.ULG557.com



3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Sound Isolation Material	STC	IIC	USG Design No.
N/A	55	32	i9041.62

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil.(16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12"o.c. Face layer fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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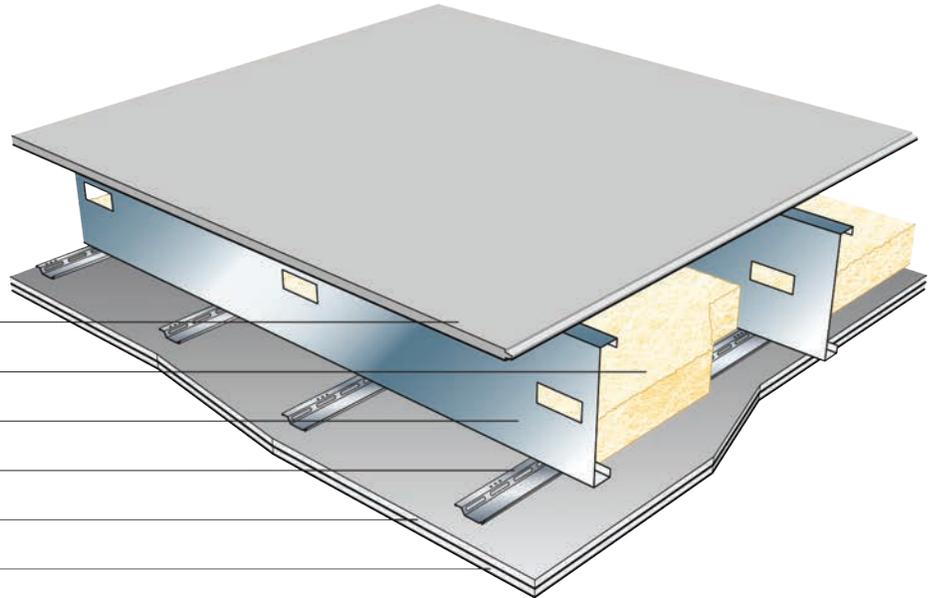
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Bare

2-hour Fire Design

UL Fire Design G557

www.ULG557.com



3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand Firecode® C Panels

5/8" USG Sheetrock® Brand Firecode® C Panels

Sound Isolation Material	STC	IIC	USG Design No.
N/A	56	32	J4242.40

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**
Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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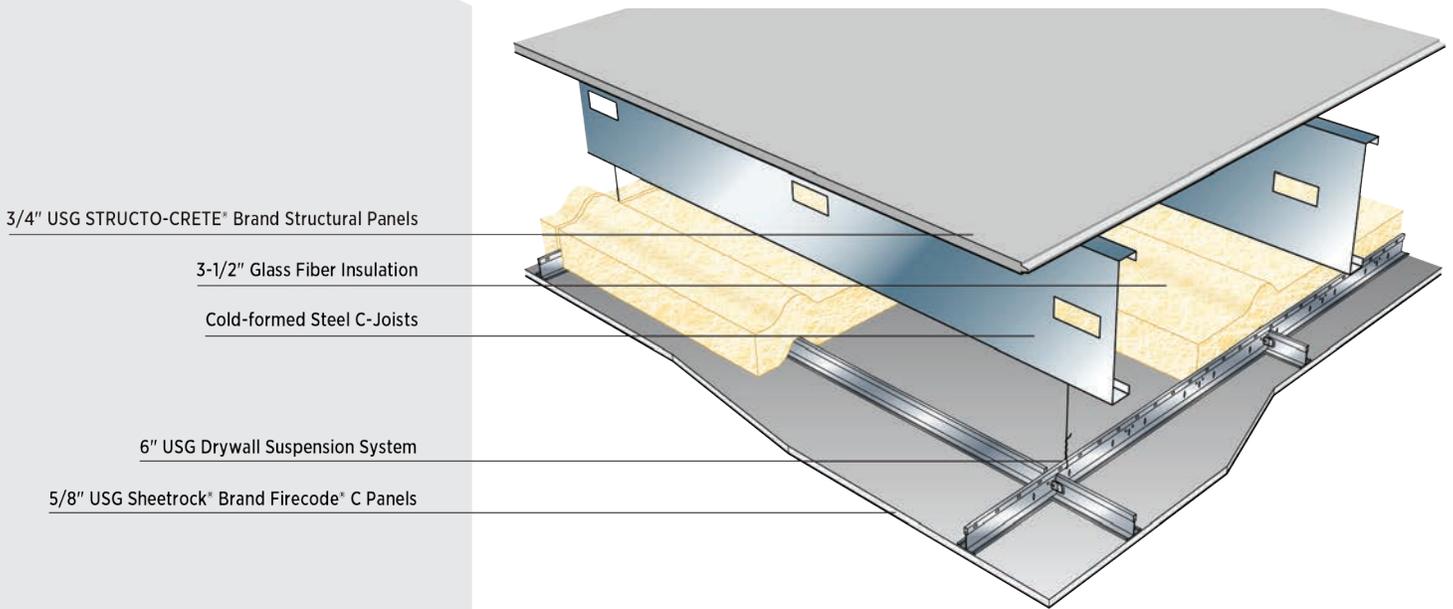
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Bare

1.5-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

www.ULG556.com



3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

6" USG Drywall Suspension System

5/8" USG Sheetrock® Brand Firecode® C Panels

Sound Isolation Material	STC	IIC	USG Design No.
N/A	57	37	i8399.34

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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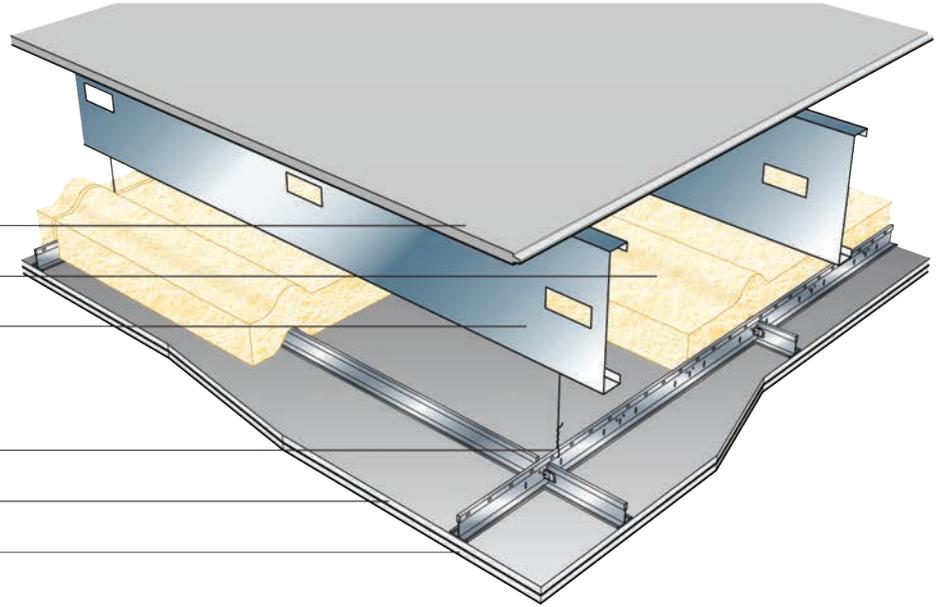
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Bare

2-hour Fire Design

UL Fire Design G557

www.ULG557.com



3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

6" USG Drywall Suspension System

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Sound Isolation Material	STC	IIC	USG Design No.
N/A	59	41	i6510.21

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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Bare

2-hour Fire Design

UL Fire Design G557

www.ULG557.com

3/4" USG STRUCTO-CRETE® Brand Structural Panels

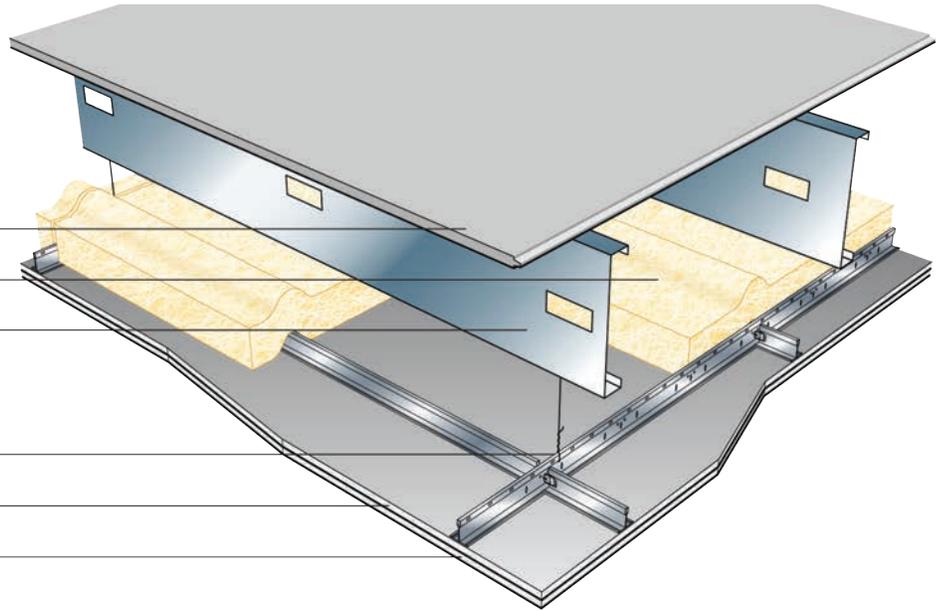
3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

6" USG Drywall Suspension System

5/8" USG Sheetrock® Brand Firecode® C Panels

5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
N/A	60	41	i9258.01

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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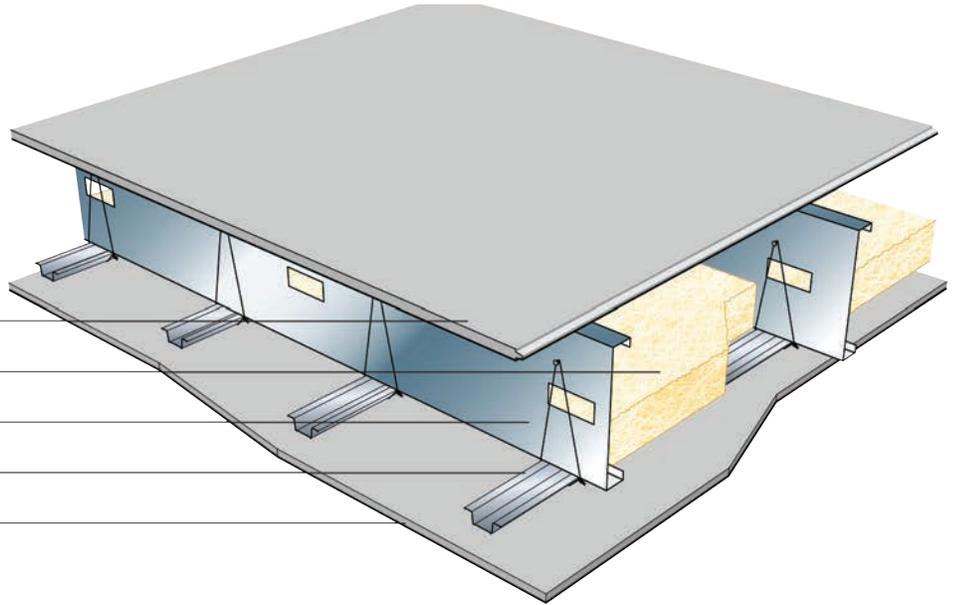
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Bare

2-hour Fire Design

UL Fire Design G602

www.ULG602.com



3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

20 Gauge Furring Channels (Hat Channels)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

Sound Isolation Material	STC	IIC	USG Design No.
N/A	54	33	i9043.28

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

Made in Delavan, WI, USA

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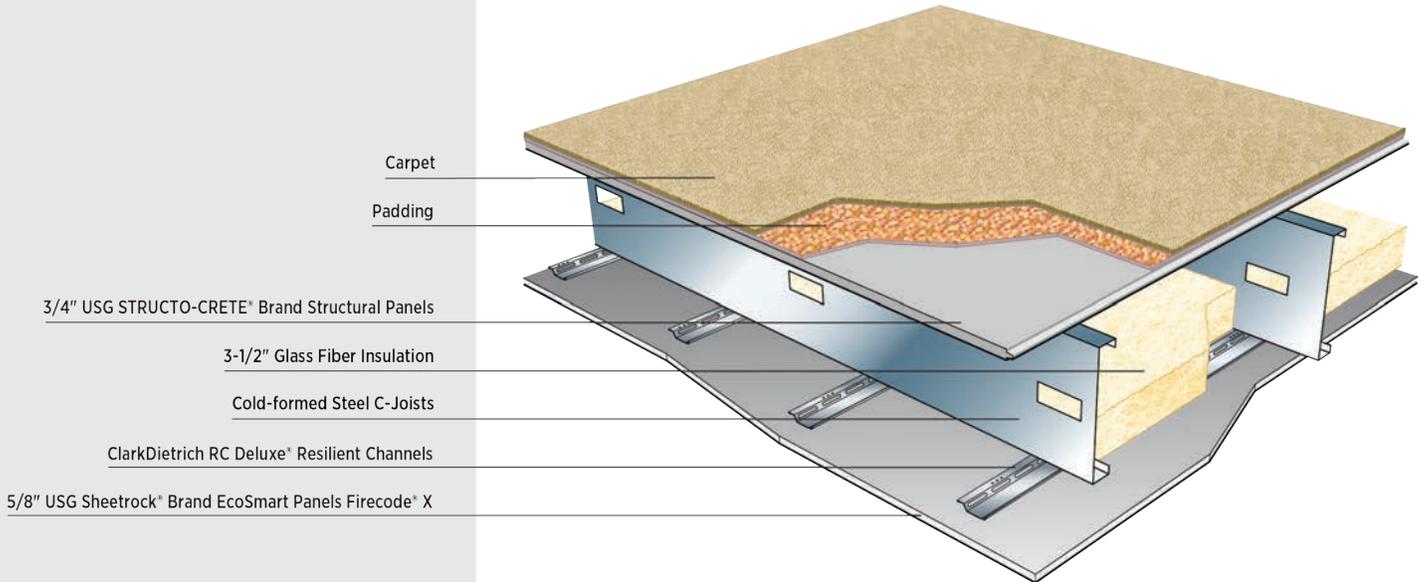
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Carpet & Pad

2-hour Fire Design

UL Fire Design H505 | GA File No. FC 1903

www.ULH505.com



Sound Isolation Material	STC	IIC	USG Design No.
N/A	56	71	i9041.02

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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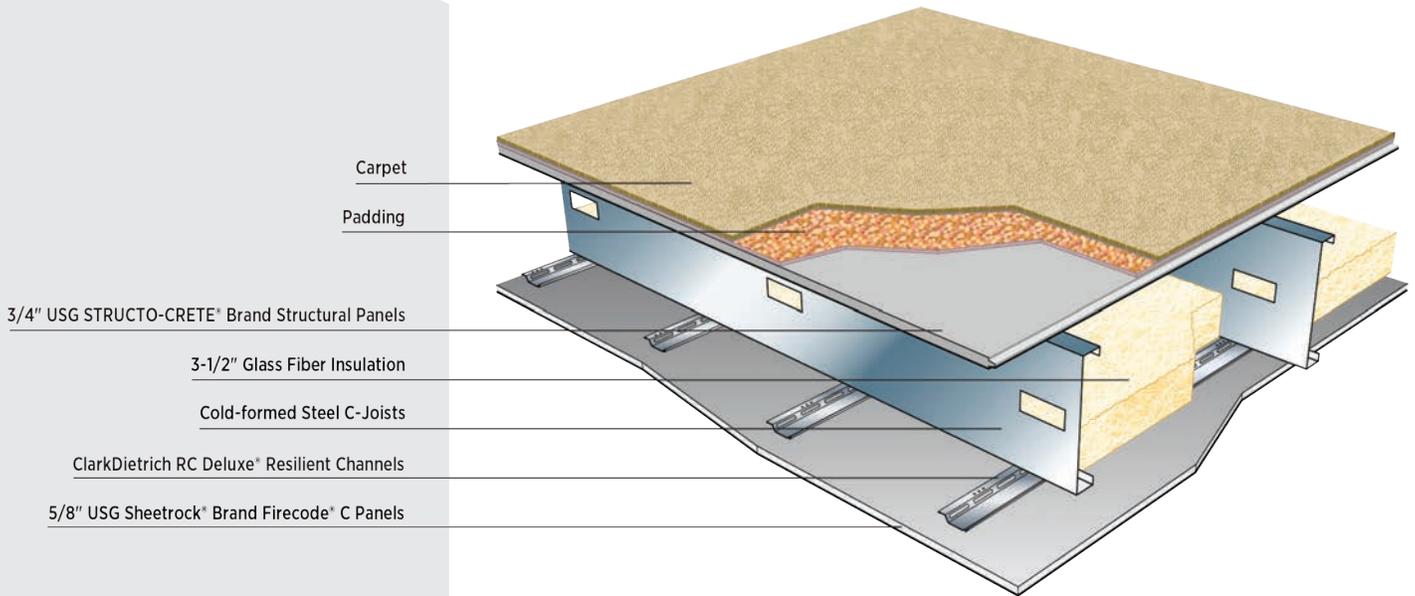
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Carpet & Pad

1.5-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

www.ULG556.com



Sound Isolation Material	STC	IIC	USG Design No.
N/A	57	73	J4242.03

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil.(16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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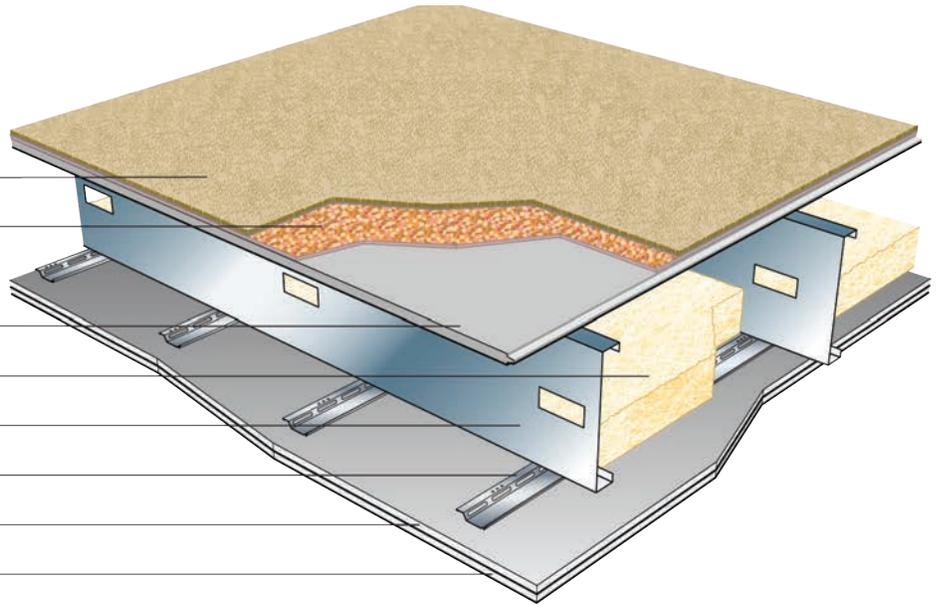
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Carpet & Pad

2-hour Fire Design

UL Fire Design G557

www.ULG557.com



Carpet

Padding

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Sound Isolation Material	STC	IIC	USG Design No.
N/A	57	74	i9041.63

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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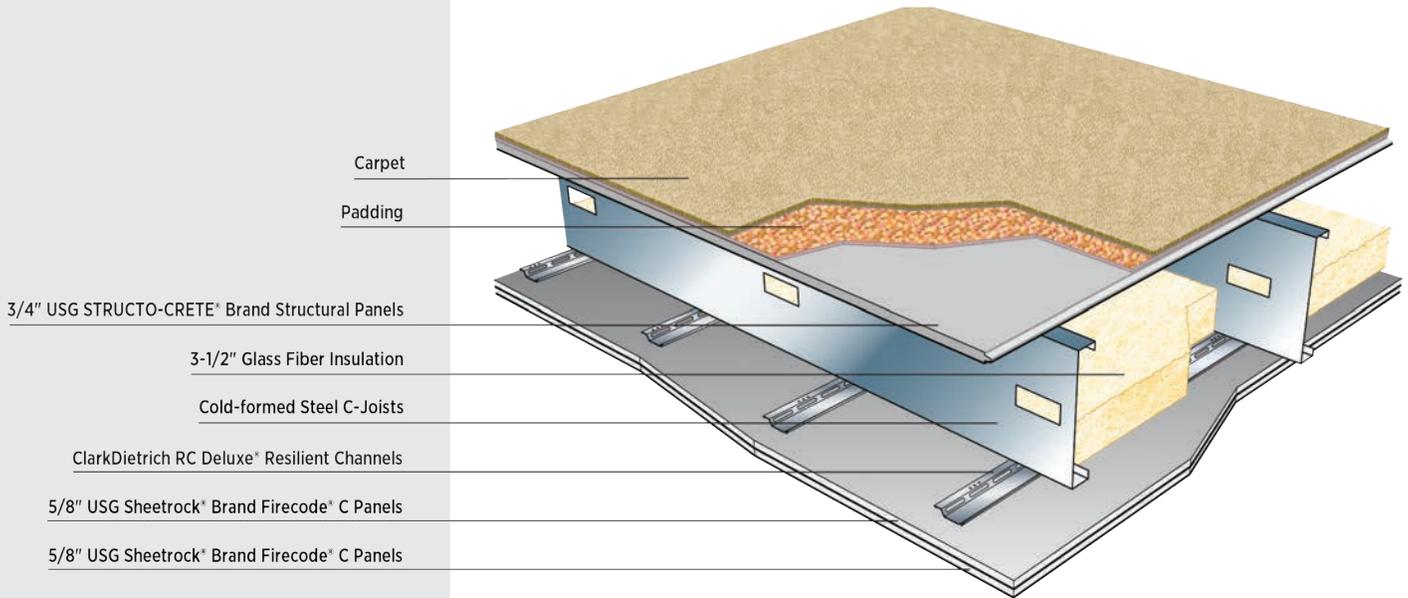
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Carpet & Pad

2-hour Fire Design

UL Fire Design G557

www.ULG557.com



Sound Isolation Material	STC	IIC	USG Design No.
N/A	59	76	J4242.42

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**
Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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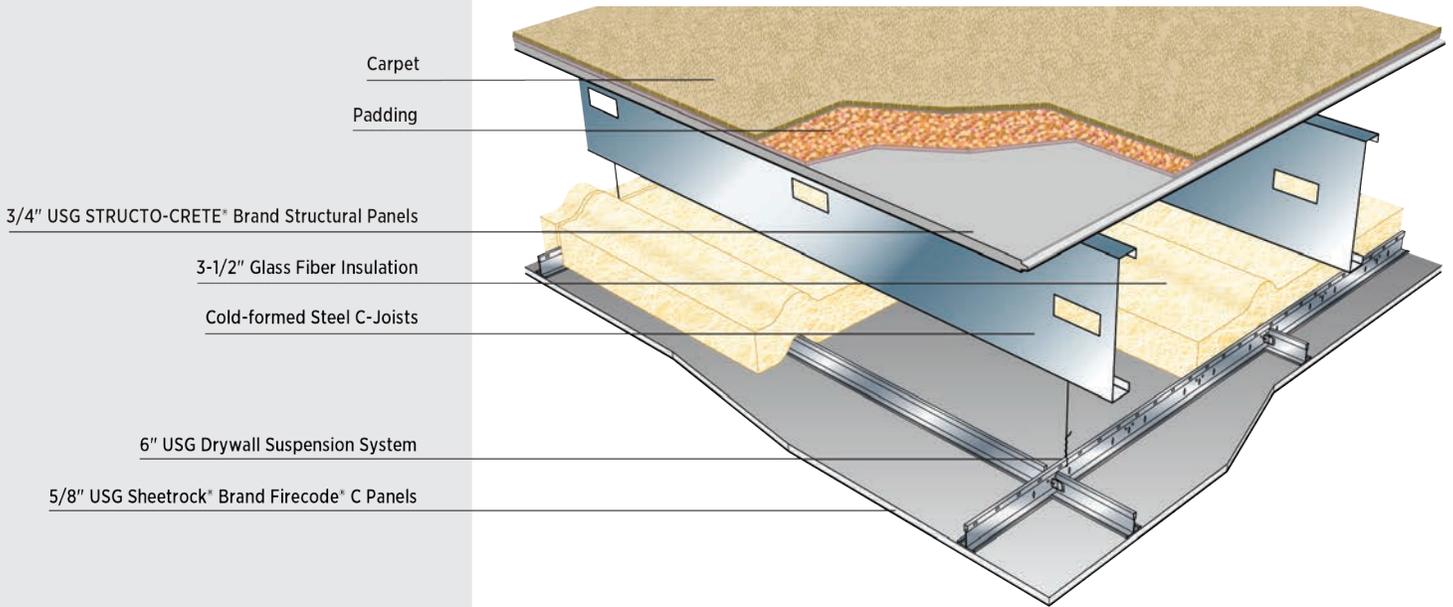
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Carpet & Pad

1.5-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

www.ULG556.com



Sound Isolation Material	STC	IIC	USG Design No.
N/A	58	69	i8399.35

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil.(16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

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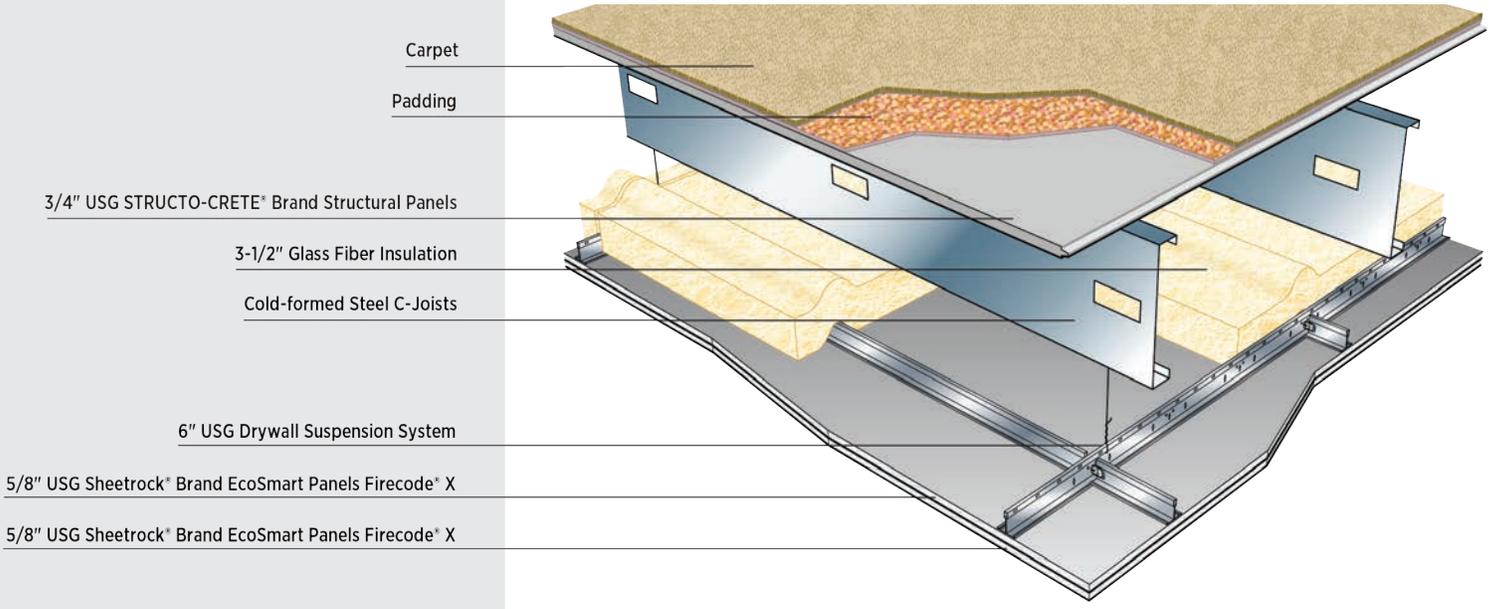
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Carpet & Pad

2-hour Fire Design

UL Fire Design G557

www.ULG557.com



Sound Isolation Material	STC	IIC	USG Design No.
N/A	59	74	i6510.22

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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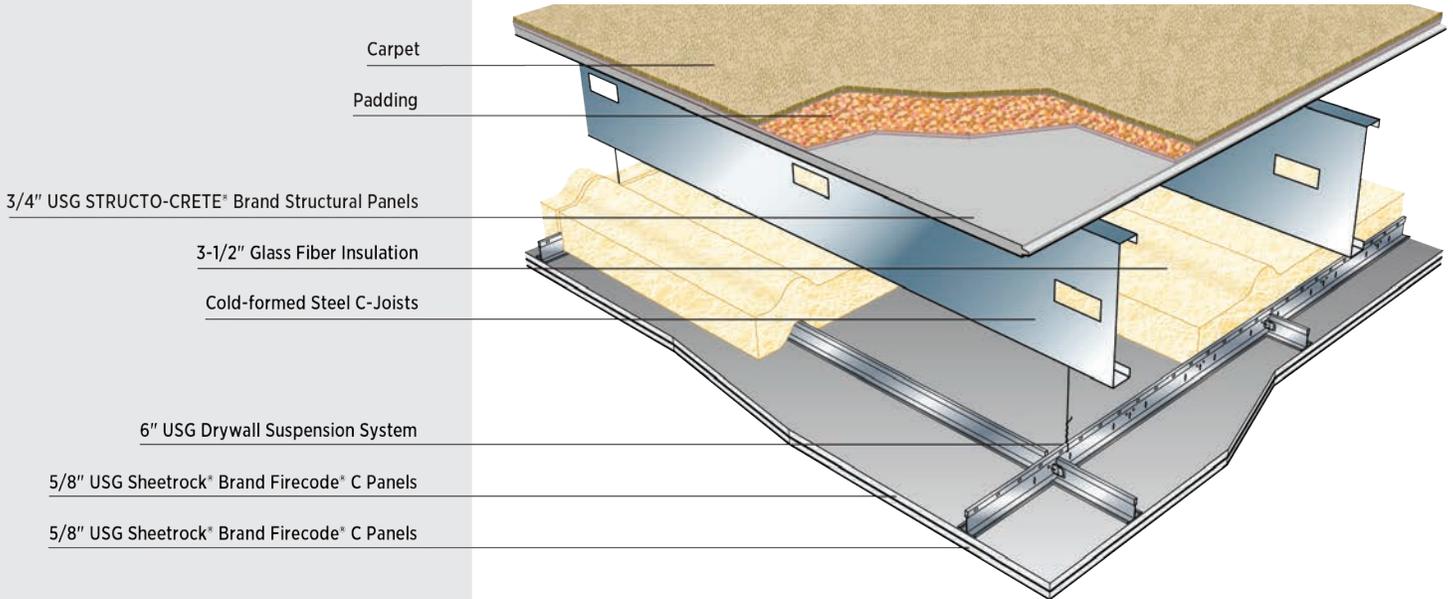
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Carpet & Pad

2-hour Fire Design

UL Fire Design G557

www.ULG557.com



Sound Isolation Material	STC	IIC	USG Design No.
N/A	61	75	i9258.03

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced max. 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

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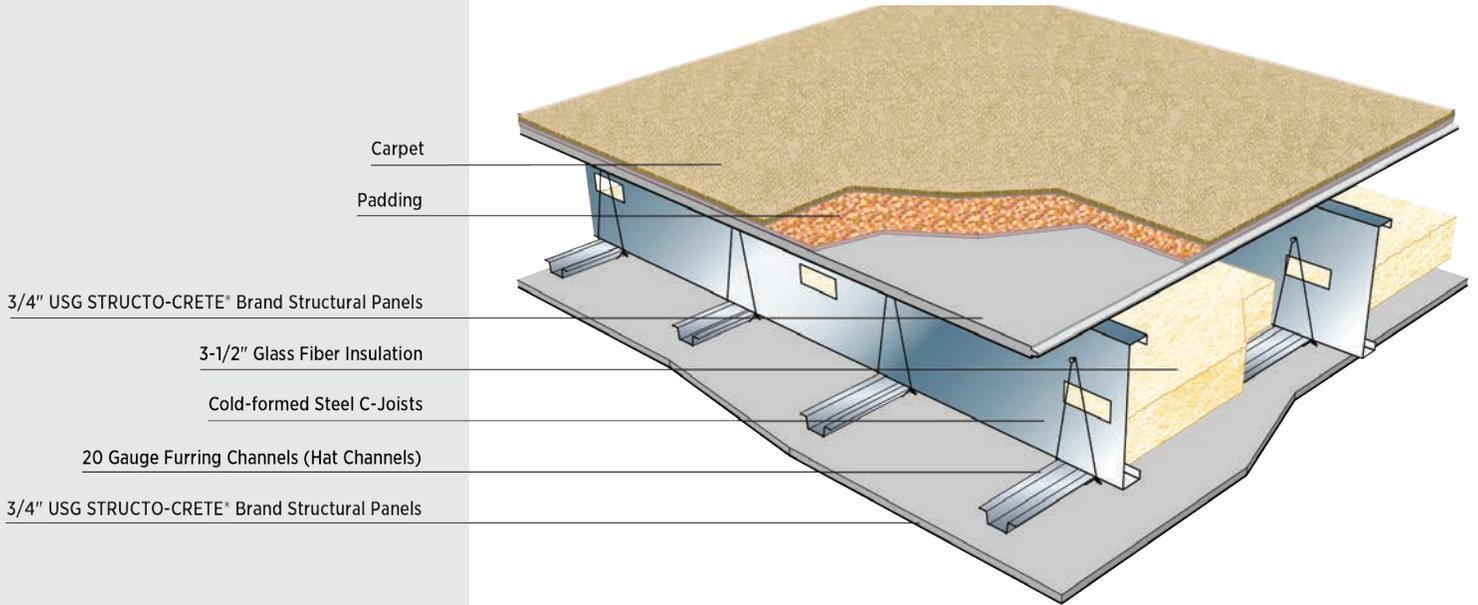
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Carpet & Pad

2-hour Fire Design

UL Fire Design G602

www.ULG602.com



Sound Isolation Material	STC	IIC	USG Design No.
N/A	56	72	i9043.29

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

Made in Delavan, WI, USA

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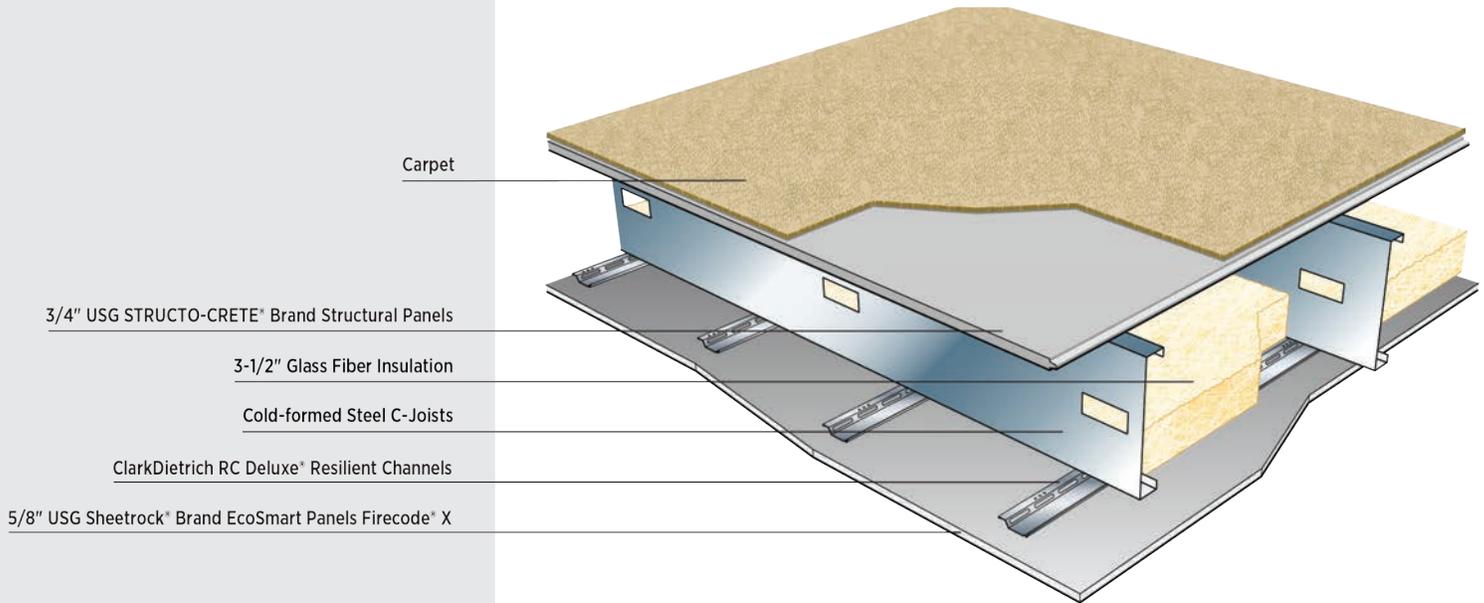
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Carpet Only

2-hour Fire Design

UL Fire Design H505 | GA File No. FC 1903

www.ULH505.com



Sound Isolation Material	STC	IIC	USG Design No.
N/A	55	51	i9041.03

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULH505.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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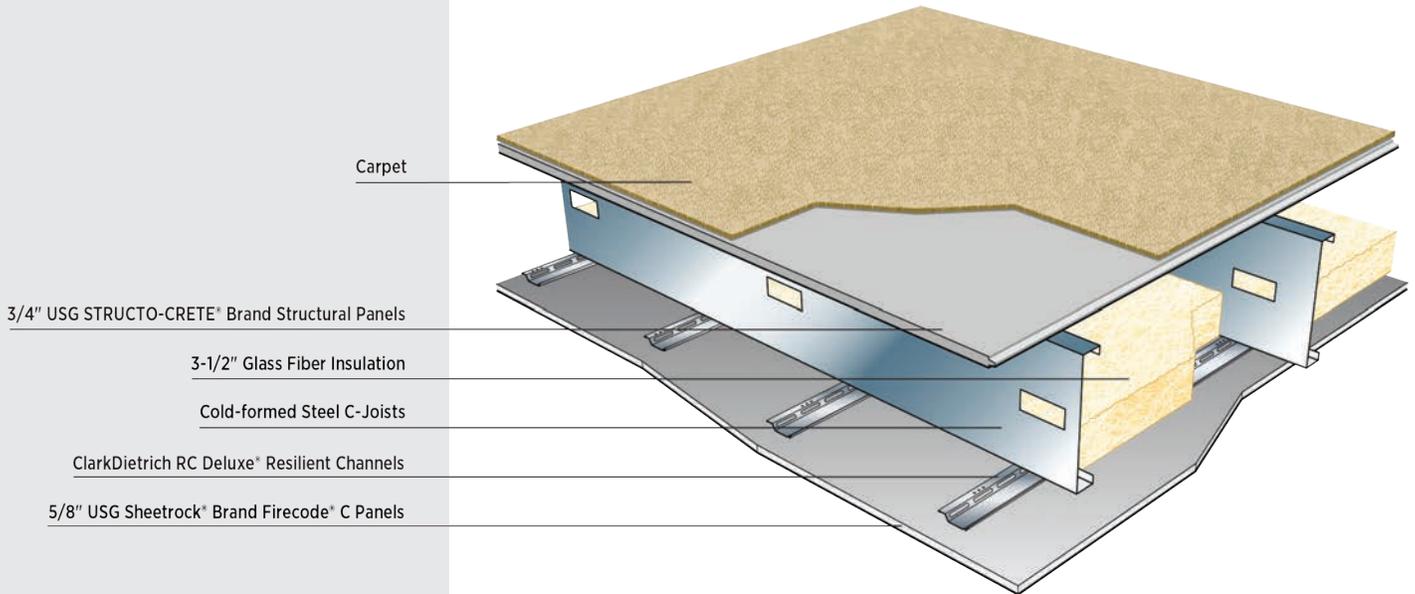
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Carpet Only

1.5-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

www.ULG556.com



Sound Isolation Material	STC	IIC	USG Design No.
N/A	55	53	J4242.02

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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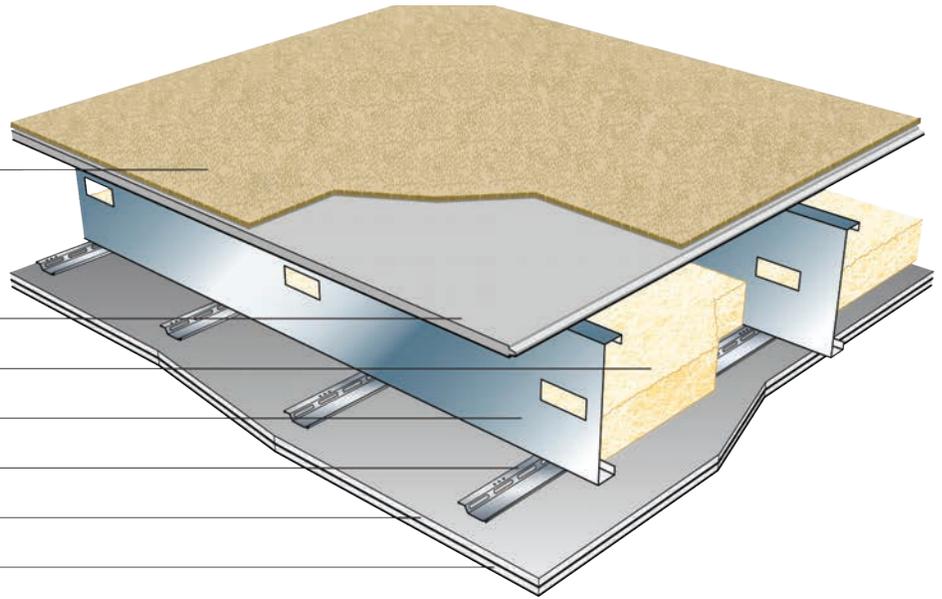
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Carpet Only

2-hour Fire Design

UL Fire Design G557

www.ULG557.com



Carpet

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Sound Isolation Material	STC	IIC	USG Design No.
N/A	56	54	i9041.64

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)**. Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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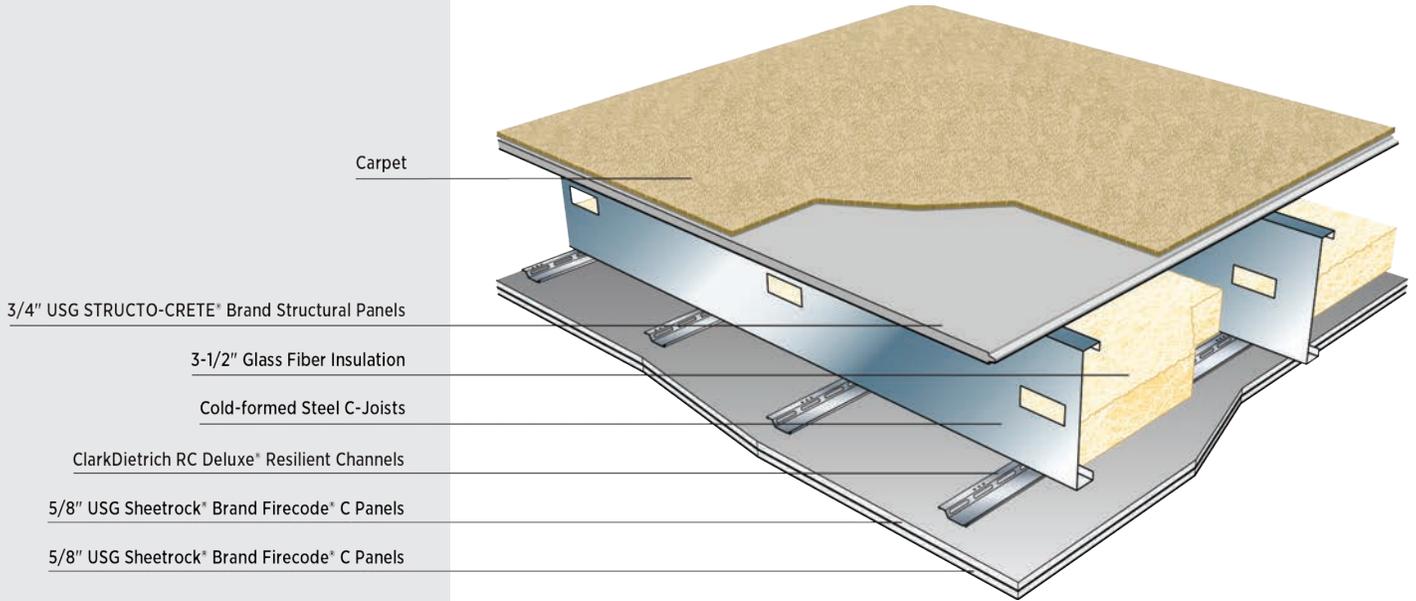
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Carpet Only

2-hour Fire Design

UL Fire Design G557

www.ULG557.com



Sound Isolation Material	STC	IIC	USG Design No.
N/A	57	56	J4242.41

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**
Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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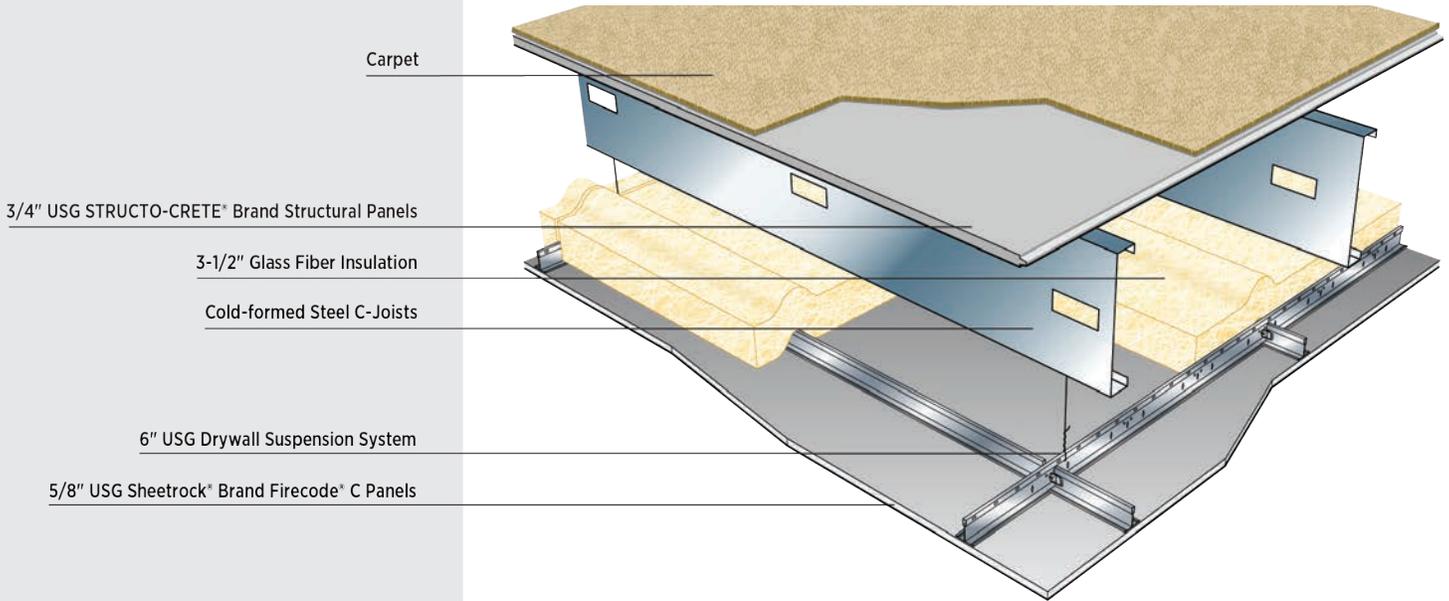
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Carpet Only

1.5-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

www.ULG556.com



Sound Isolation Material	STC	IIC	USG Design No.
N/A	56	52	i6510.30

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

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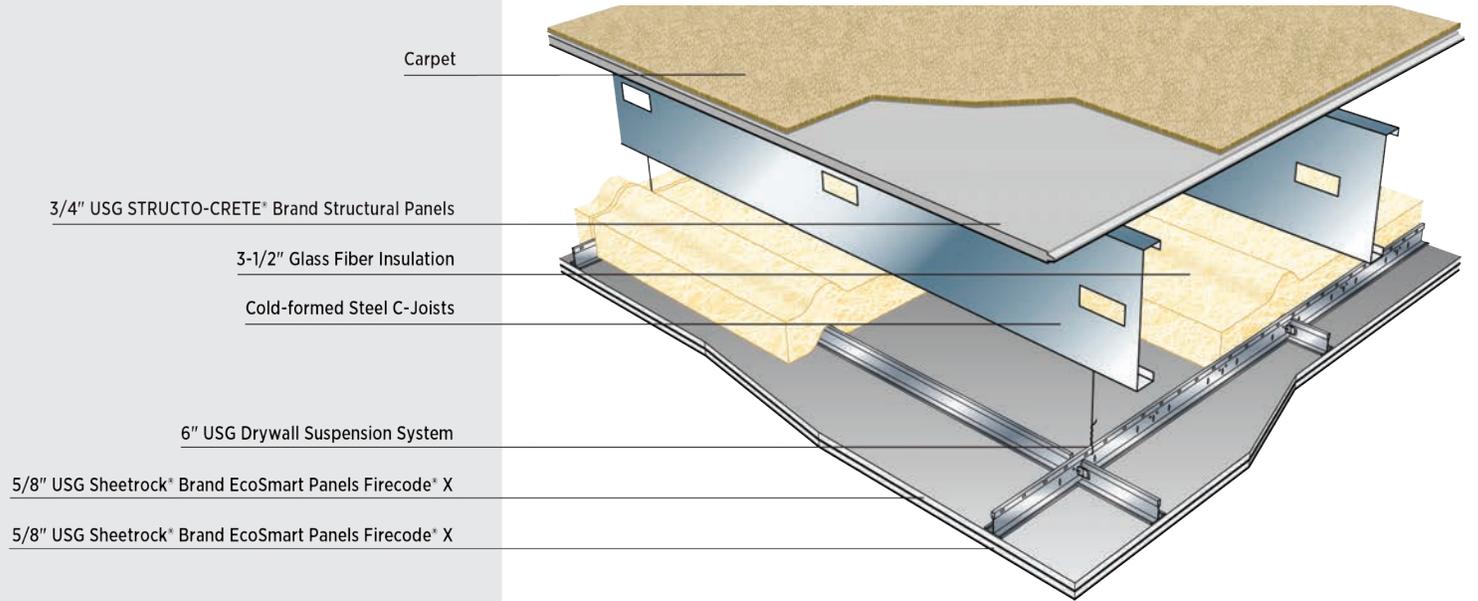
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Carpet Only

2-hour Fire Design

UL Fire Design G557

www.ULG557.com



Sound Isolation Material	STC	IIC	USG Design No.
N/A	59	56	i6510.23

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

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Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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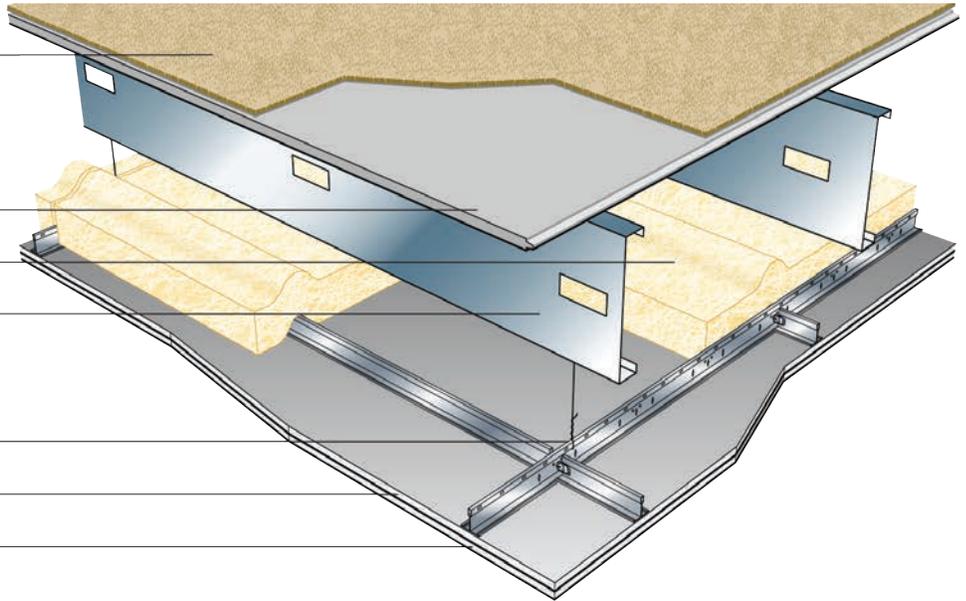
Carpet Only

2-hour Fire Design

UL Fire Design G557

www.ULG557.com

- Carpet
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand Firecode® C Panels
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
N/A	60	57	i9258.02

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**
fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**
Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

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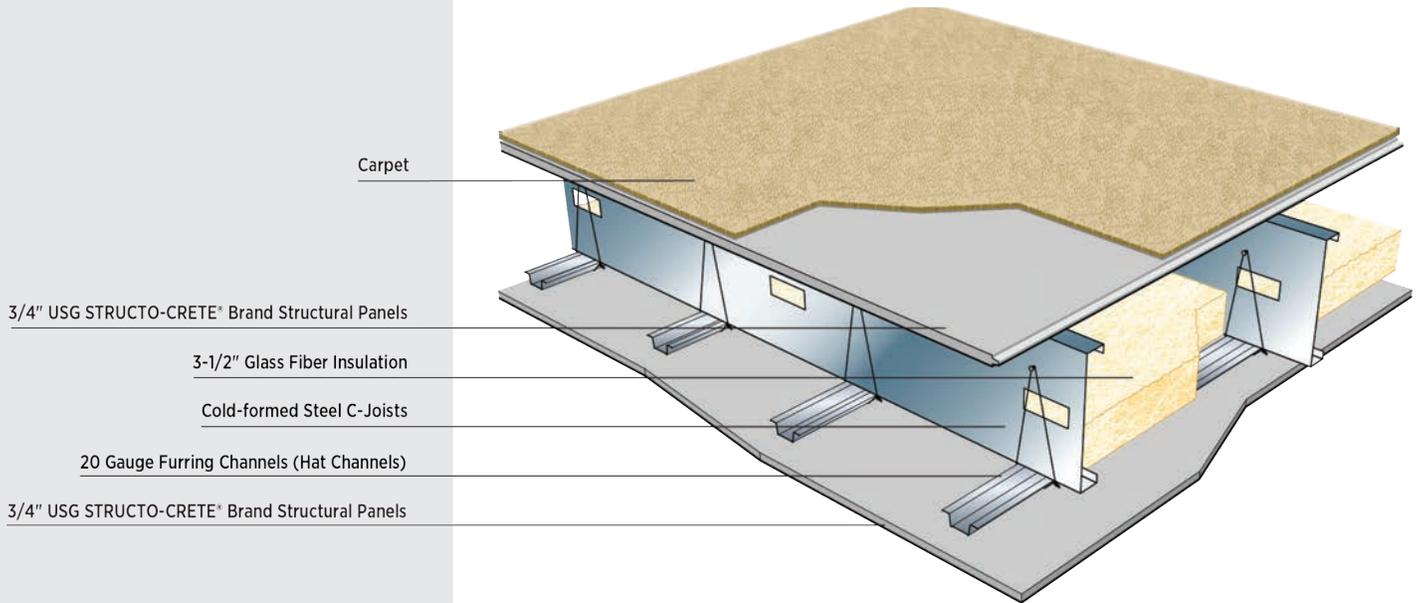
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Carpet Only

2-hour Fire Design

UL Fire Design G602

www.ULG602.com



Sound Isolation Material	STC	IIC	USG Design No.
N/A	55	53	I9043.30

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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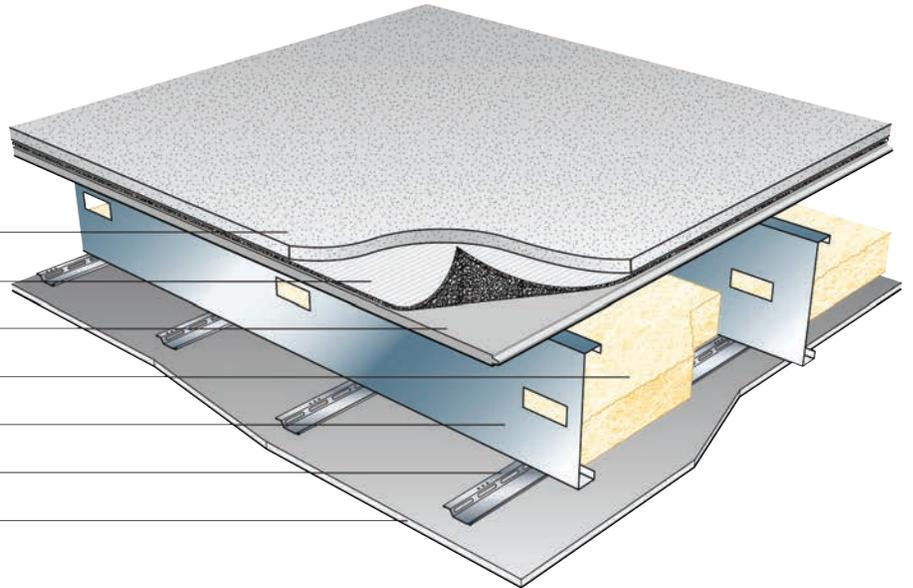
+Levelrock® Brand Underlayments

2-hour Fire Design

UL Fire Design H505 | GA File No. FC 1903

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- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	57	51	M6860.39

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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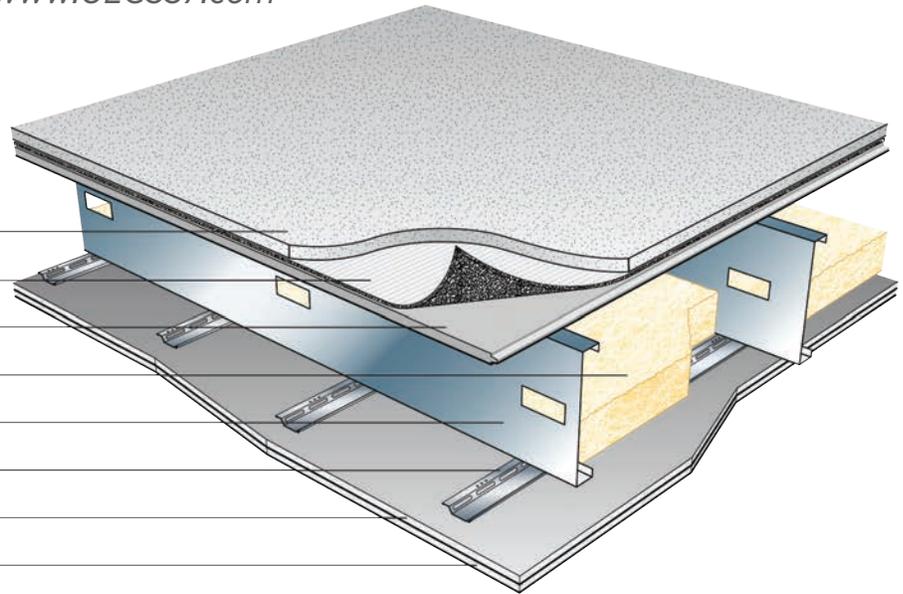
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Bare +Levelrock® Brand Underlayments

2-hour Fire Design UL Fire Design G557

www.ULG557.com

- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	58	54	M6860.51

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

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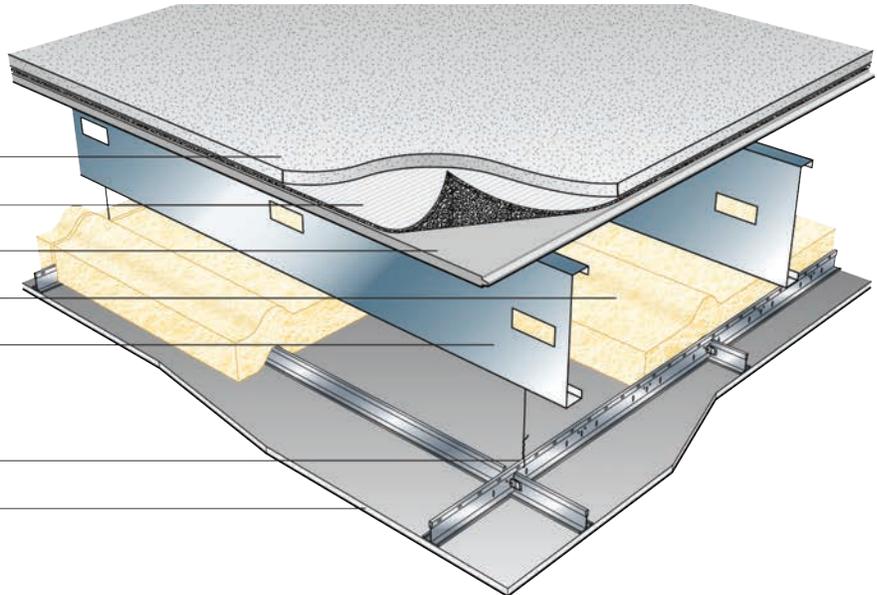
+Levelrock® Brand Underlayments

2-hour Fire Design

UL Fire Design H505 | GA File No. FC 1903

www.U LH505.com

- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	60	55	M9962.60

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) Layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.U LH505.com).

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Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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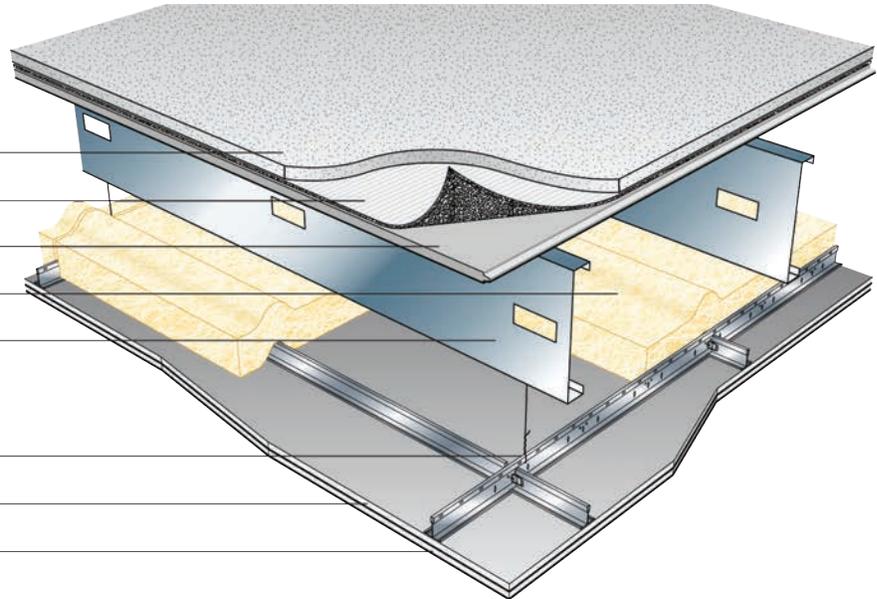
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Bare +Levelrock® Brand Underlayments

2-hour Fire Design UL Fire Design G557

www.ULG557.com



USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

6" USG Drywall Suspension System

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	57	M9962.71

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced max. 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

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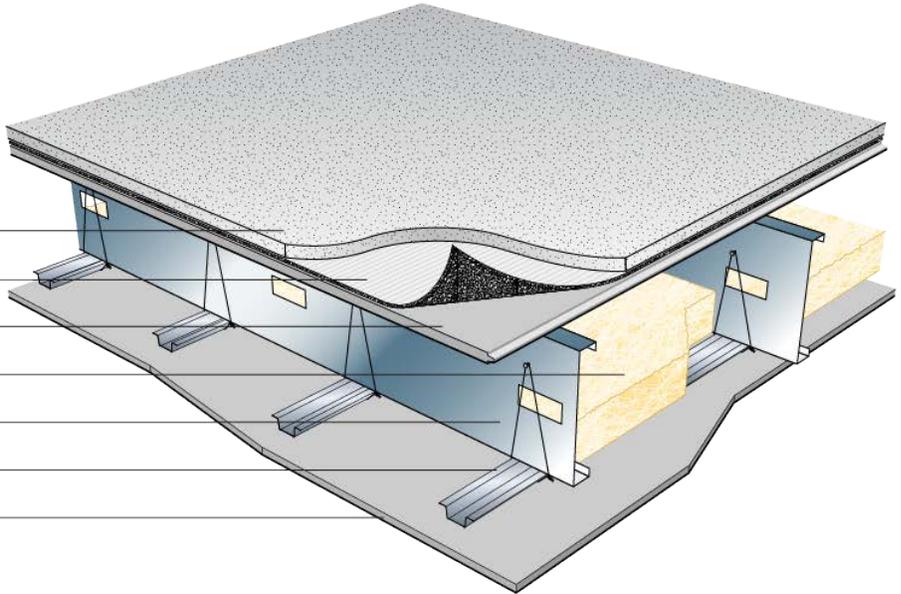
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Bare +Levelrock® Brand Underlayments

2-hour Fire Design UL Fire Design G602

www.ULG602.com



USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

20 Gauge Furring Channels (Hat Channels)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	59	50	M9962.23

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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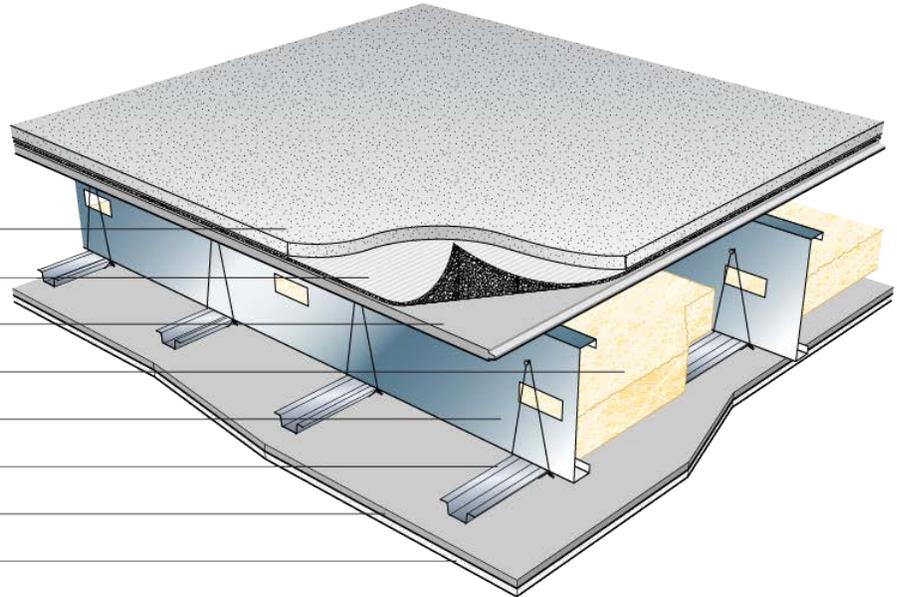
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+Levelrock® Brand Underlayments

3-hour Fire Design

UL Fire Design G602

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USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

20 Gauge Furring Channels (Hat Channels)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	54	M9962.38

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
 - **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
 - **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
 - **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
 - **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.
 - **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened through STRUCTO-CRETE® Panels to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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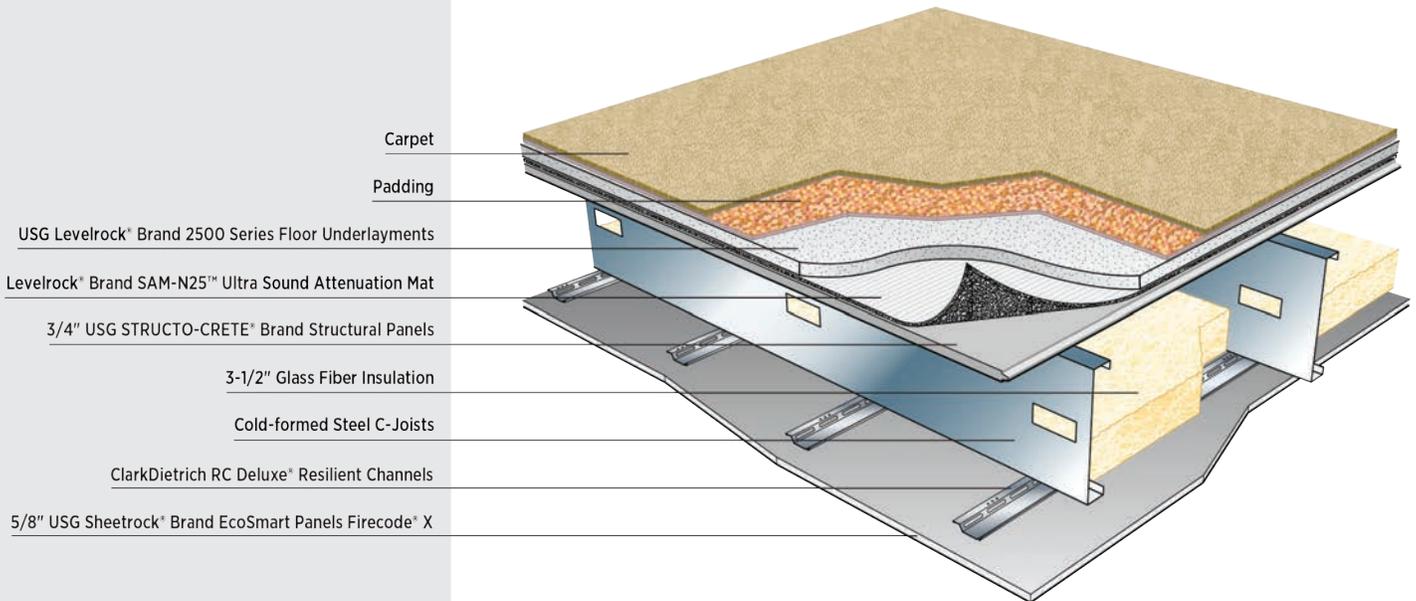
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- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	58	76	M6860.40

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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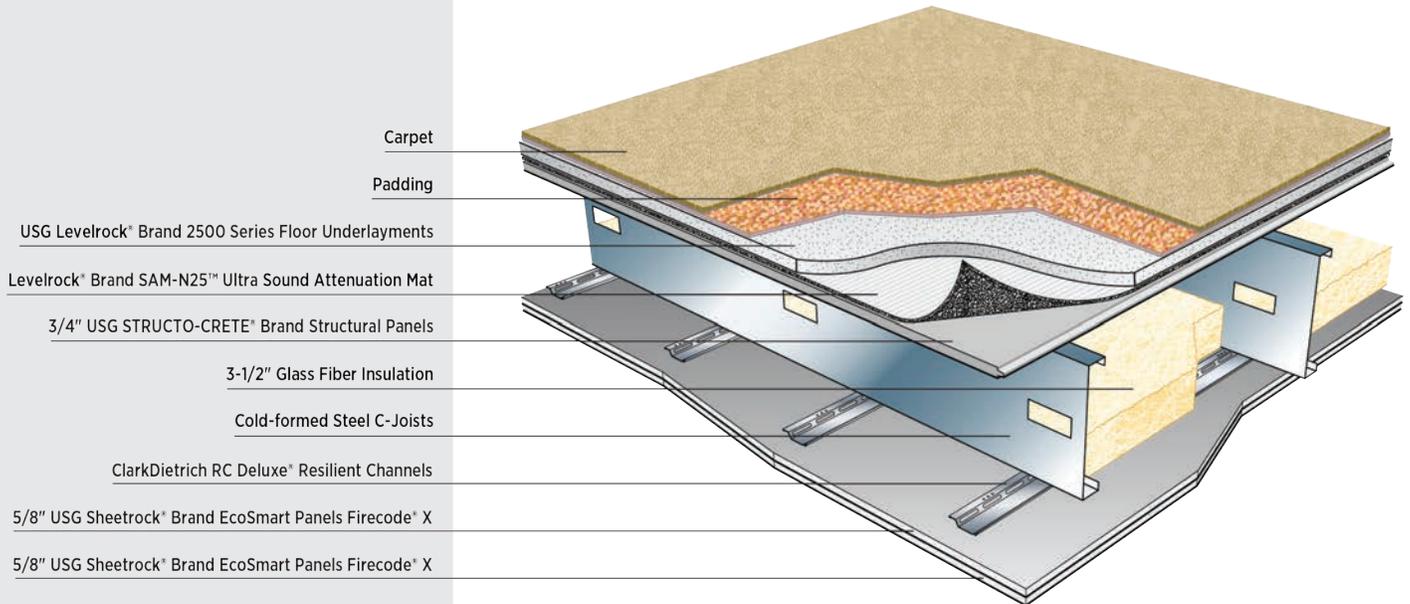
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2-hour Fire Design UL Fire Design G557

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Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	58	78	M6860.52

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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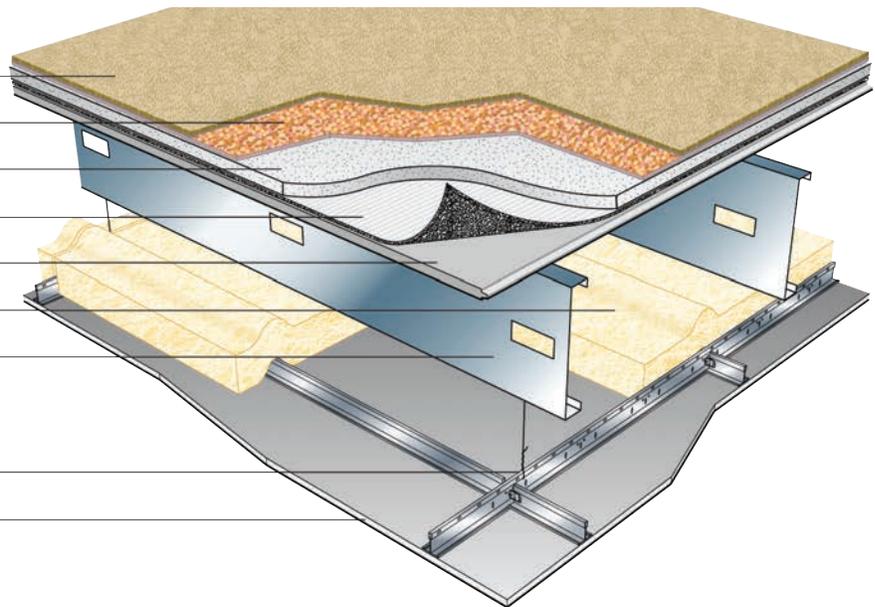
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- Padding
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- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	60	82	M9962.61

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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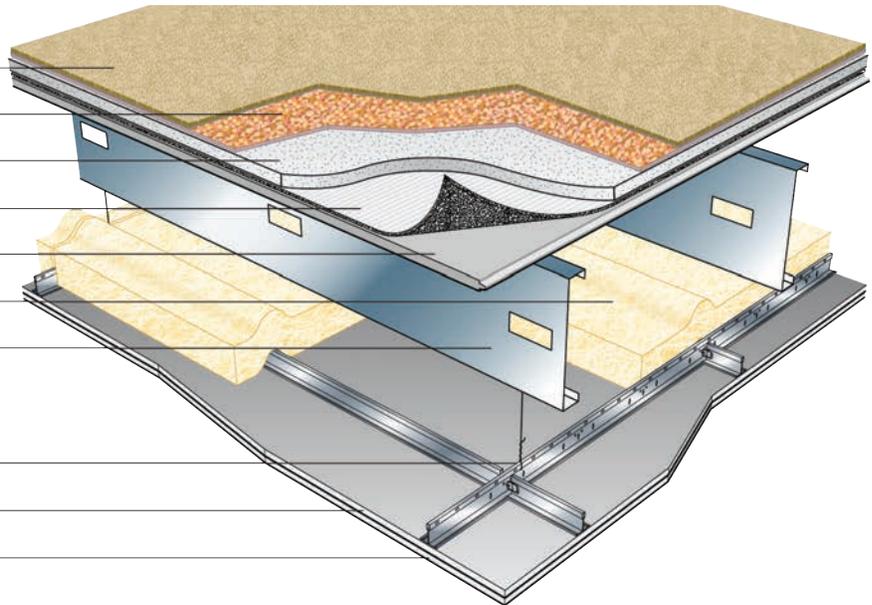
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- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	84	M9962.72

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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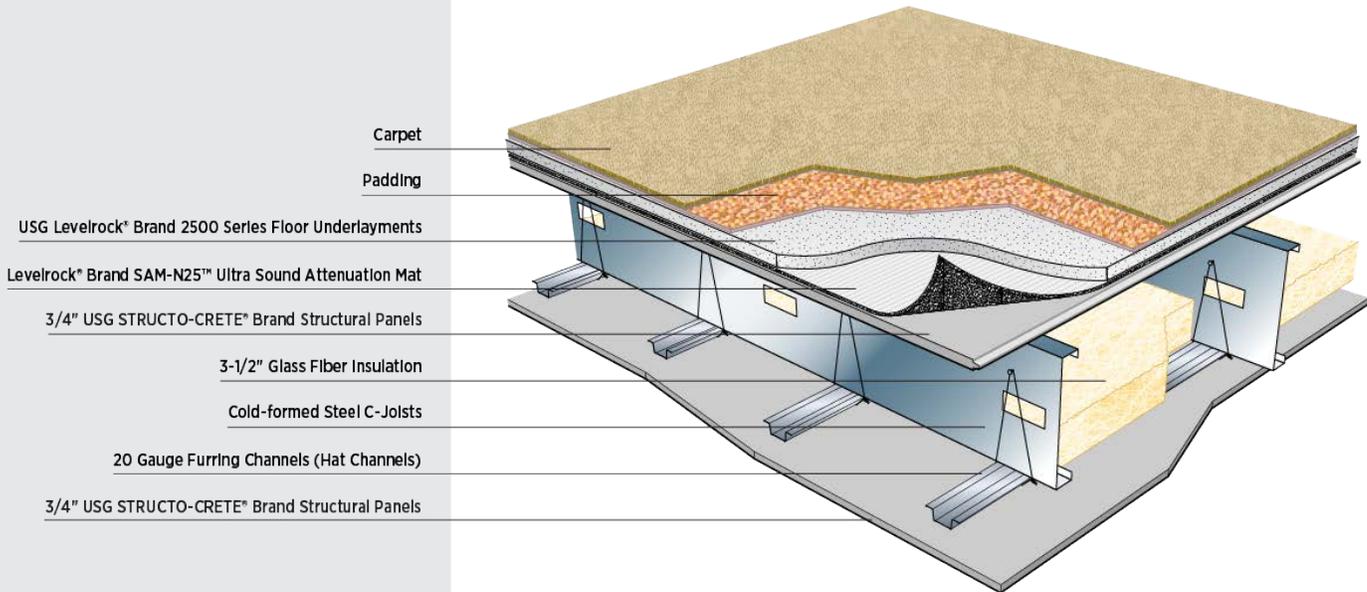
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- 3/4" USG STRUCTO-CRETE® Brand Structural Panels

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	59	83	M9962.24

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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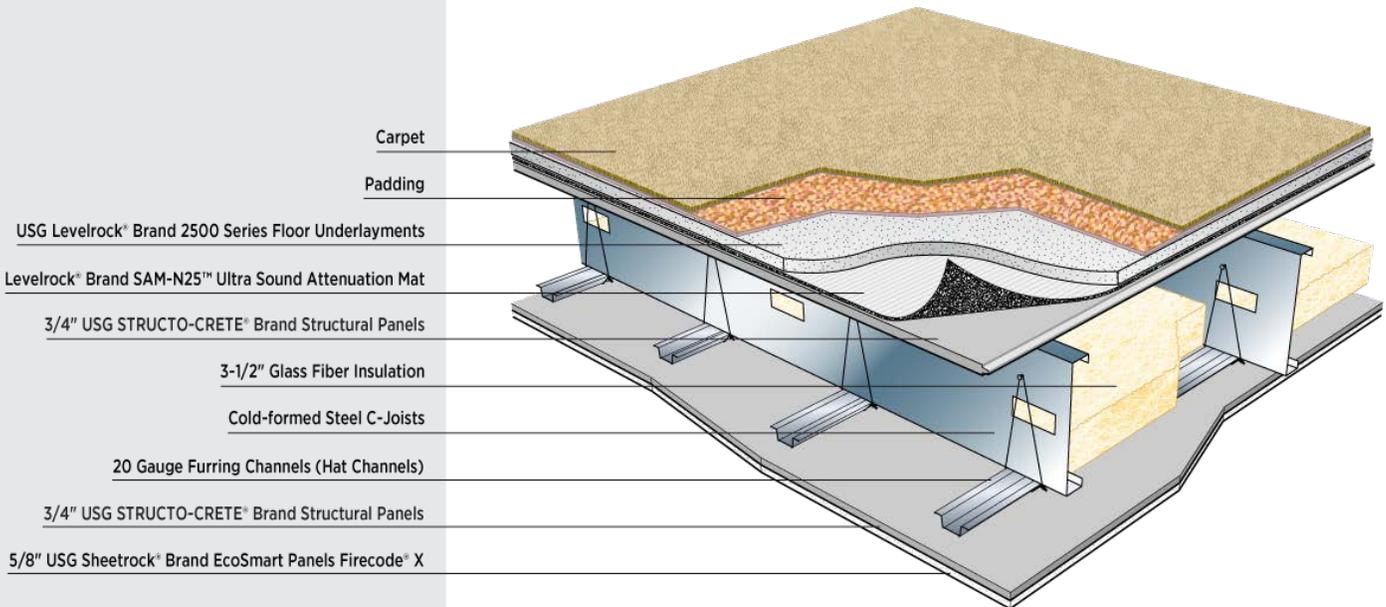
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Carpet & Pad +Levelrock® Brand Underlayments 3-hour Fire Design UL Fire Design G602

www.ULG602.com



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	84	M9962.39

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened through STRUCTO-CRETE® Panels to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

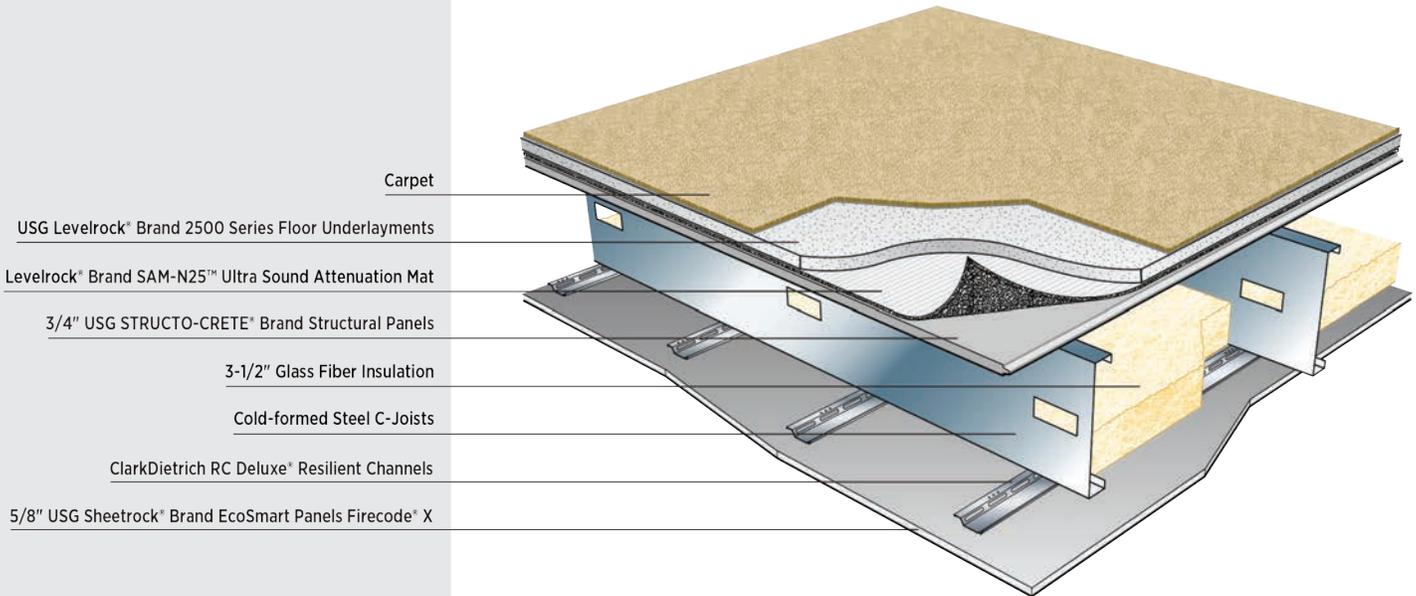
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Carpet Only +Levelrock® Brand Underlayments 2-hour Fire Design UL Fire Design H505 | GA File No. FC 1903 www.ULH505.com



- Carpet
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	58	60	M6860.41

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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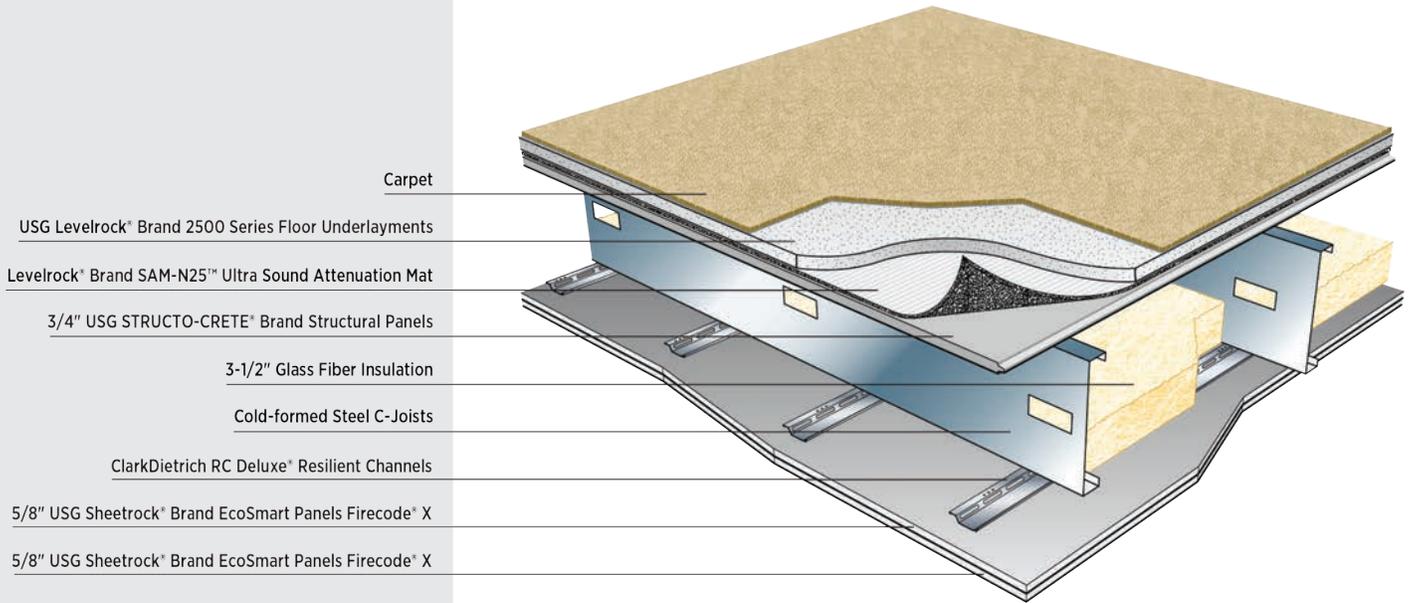
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www.ULG557.com



- Carpet
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	58	63	M6860.53

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil.(16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12"o.c. Face layer fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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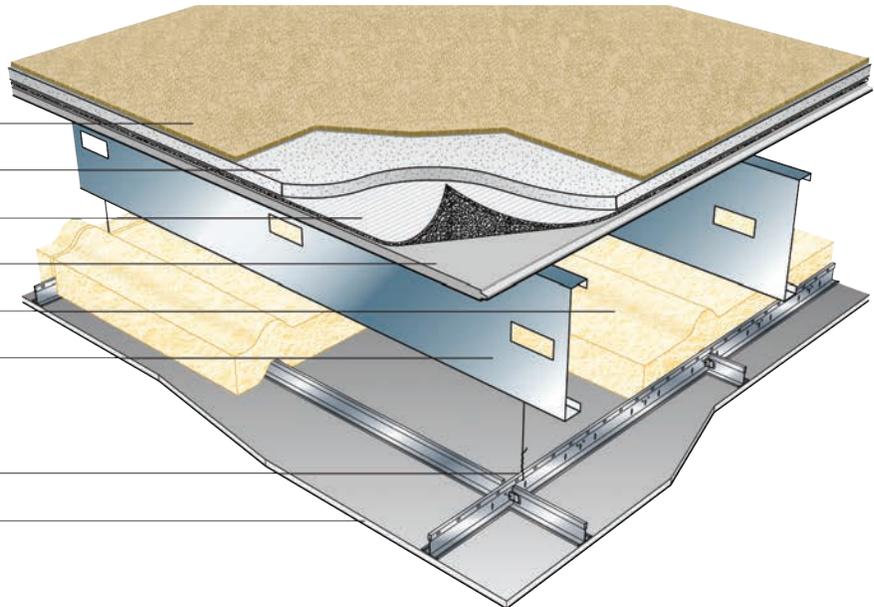
+Levelrock® Brand Underlayments

2-hour Fire Design

UL Fire Design H505 | GA File No. FC 1903

www.ULH505.com

- Carpet
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	64	M9962.62

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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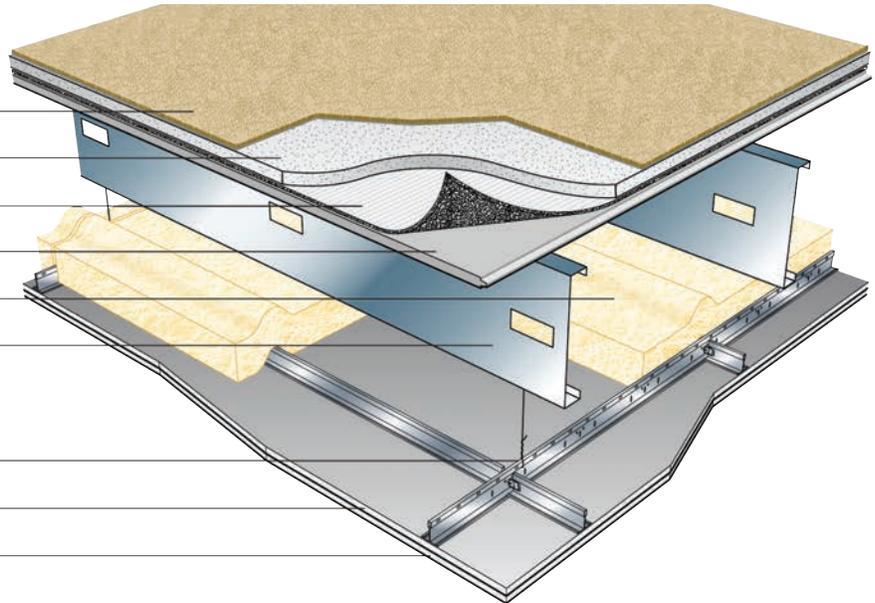
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2-hour Fire Design UL Fire Design G557

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- Carpet
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- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	68	M9962.73

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil.(16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

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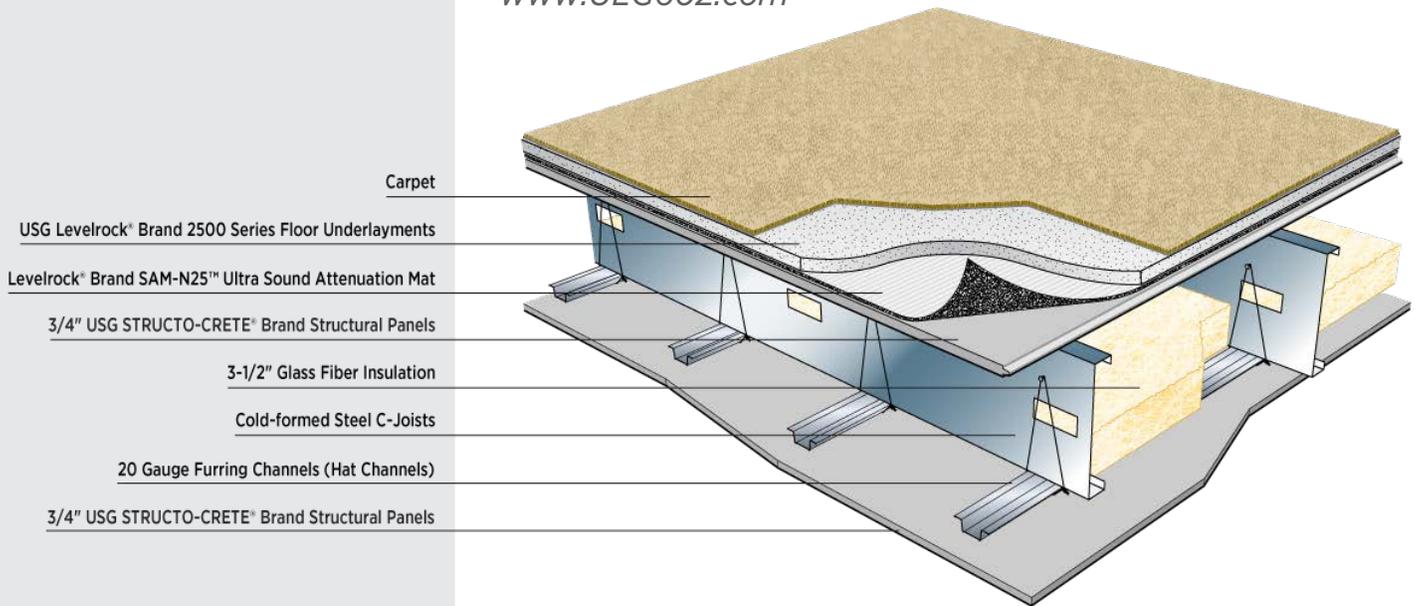
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Carpet Only +Levelrock® Brand Underlayments

2-hour Fire Design UL Fire Design G602

www.ULG602.com



Carpet

USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

20 Gauge Furring Channels (Hat Channels)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	60	66	M9962.25

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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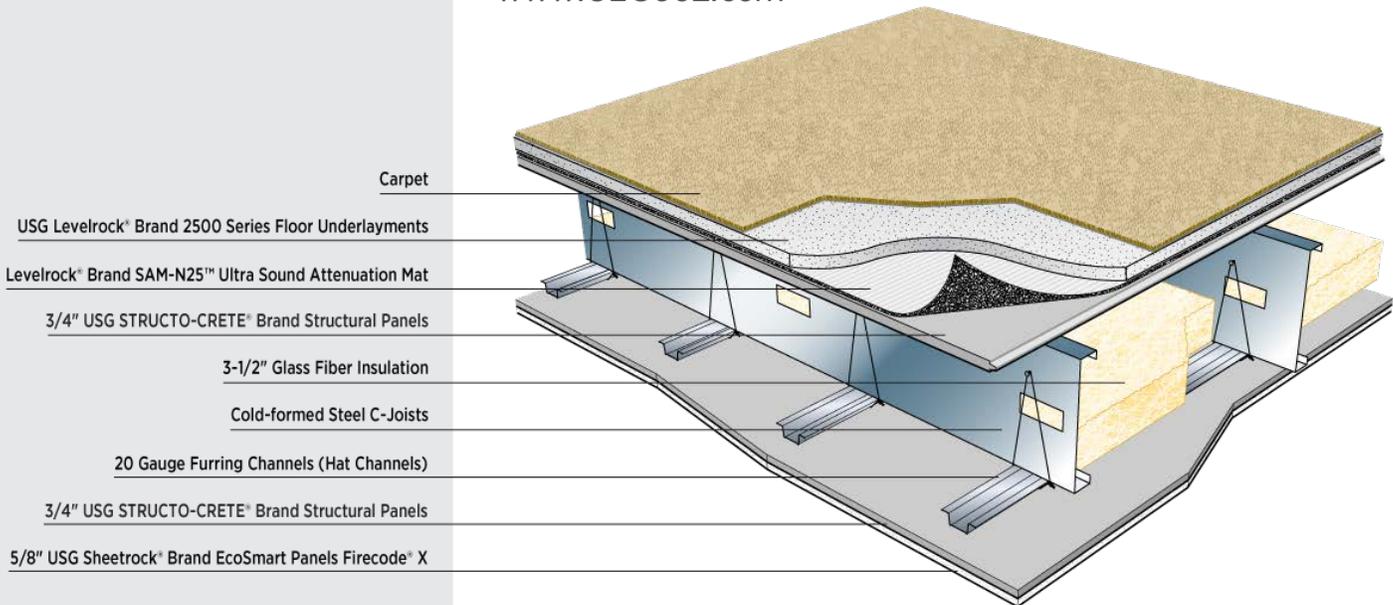
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3-hour Fire Design UL Fire Design G602

www.ULG602.com



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	68	M9962.40

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
 - **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced max. 24" o.c.
 - **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
 - **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
 - **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.
 - **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened through STRUCTO-CRETE® Panels to furring channels with screws spaced 8" o.c.
- See UL-G602 design for all options and specific details (www.ULG602.com).

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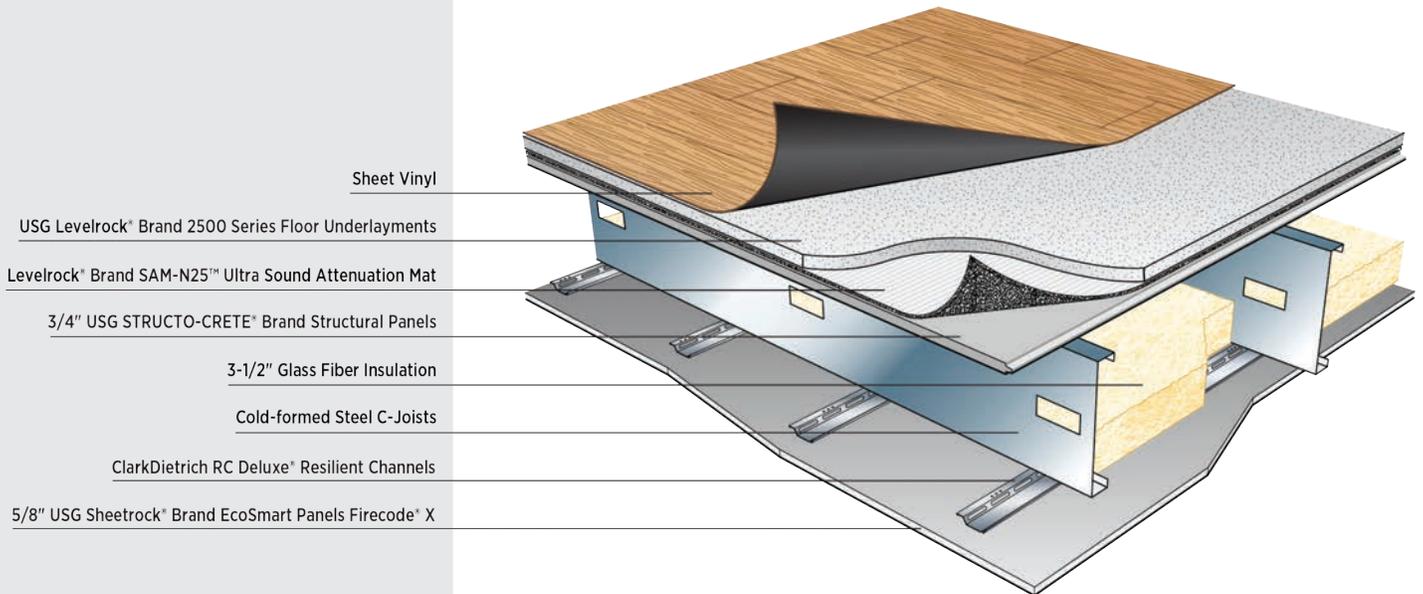
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Sheet Vinyl

USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	57	53	M6860.42

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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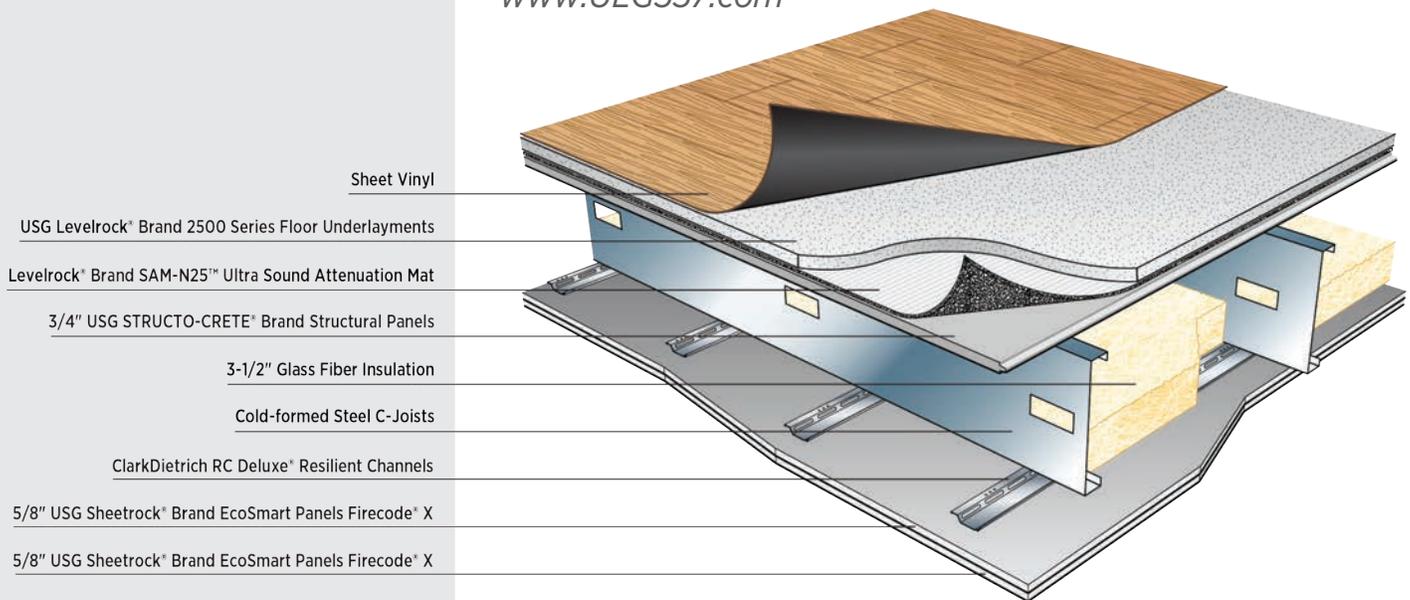
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2-hour Fire Design UL Fire Design G557

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Sheet Vinyl

USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

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3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	57	55	M6860.54

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
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- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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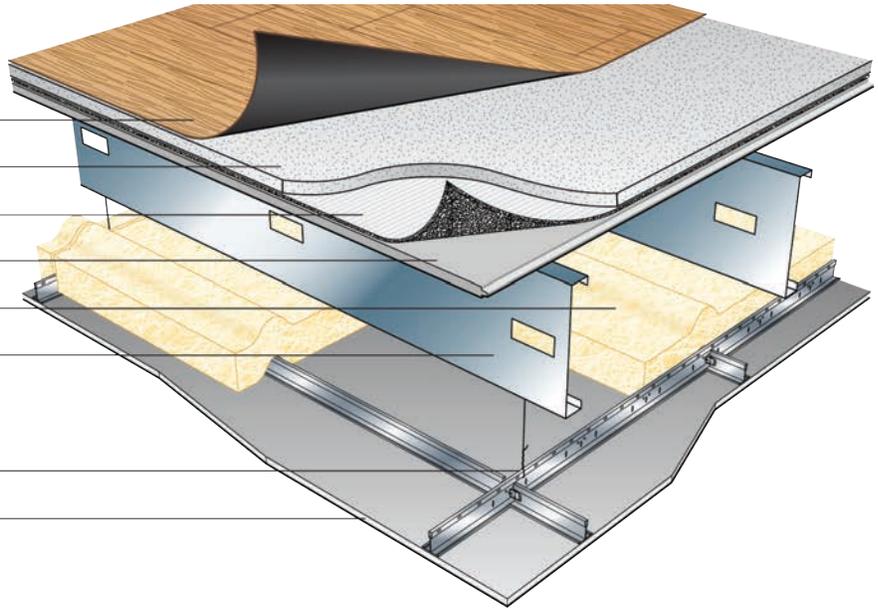
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- Sheet Vinyl
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- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	60	57	M9962.63

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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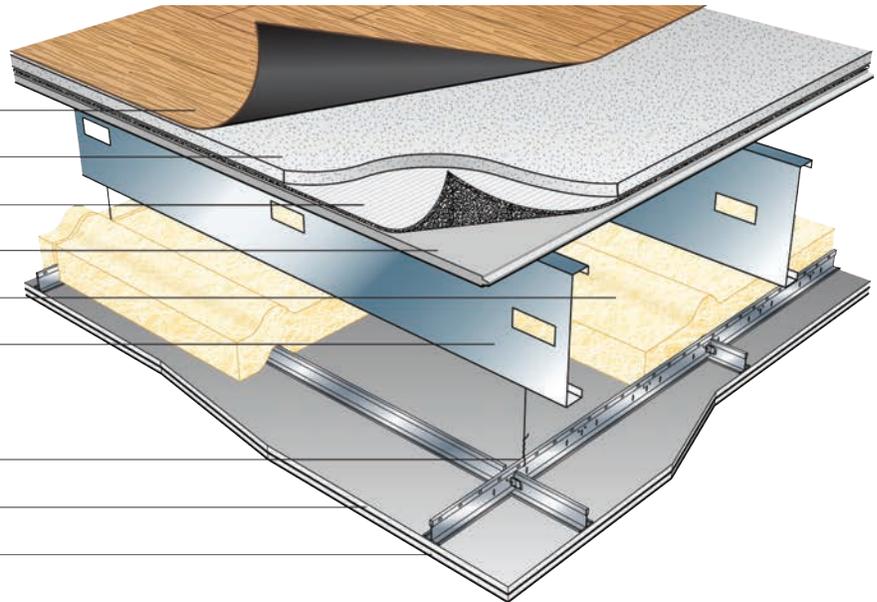
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- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
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- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	60	M9962.74

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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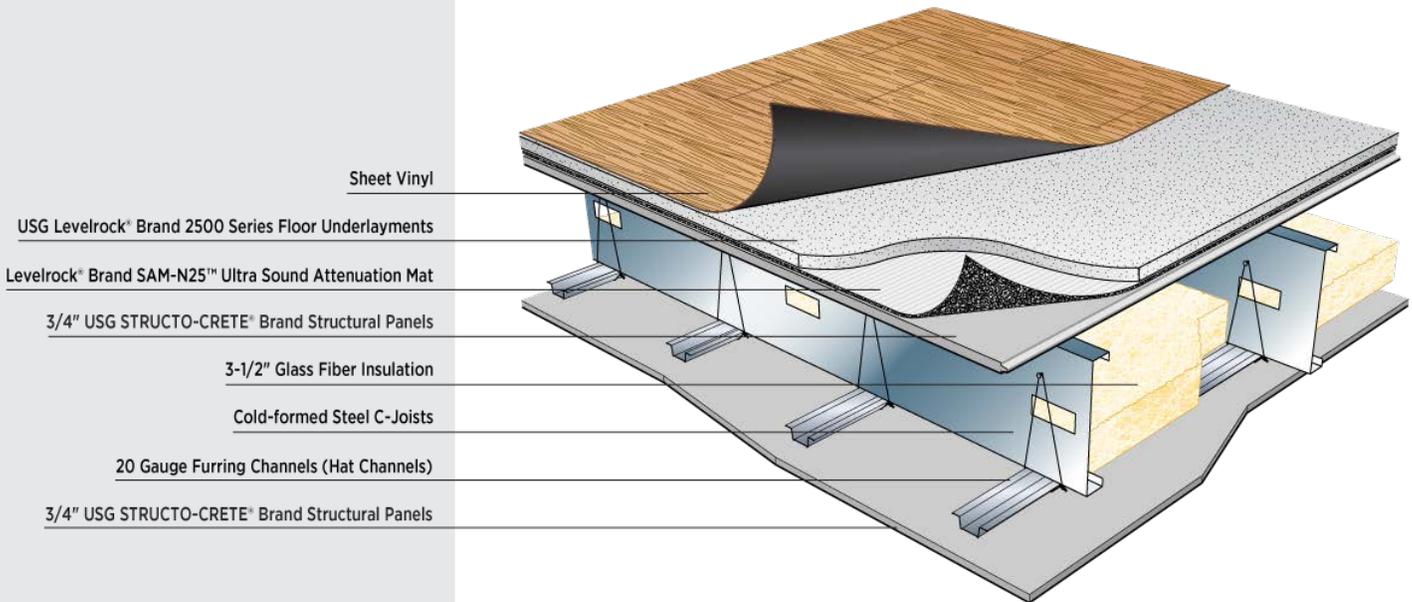
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Sheet Vinyl

USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

20 Gauge Furring Channels (Hat Channels)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	58	56	M9962.26

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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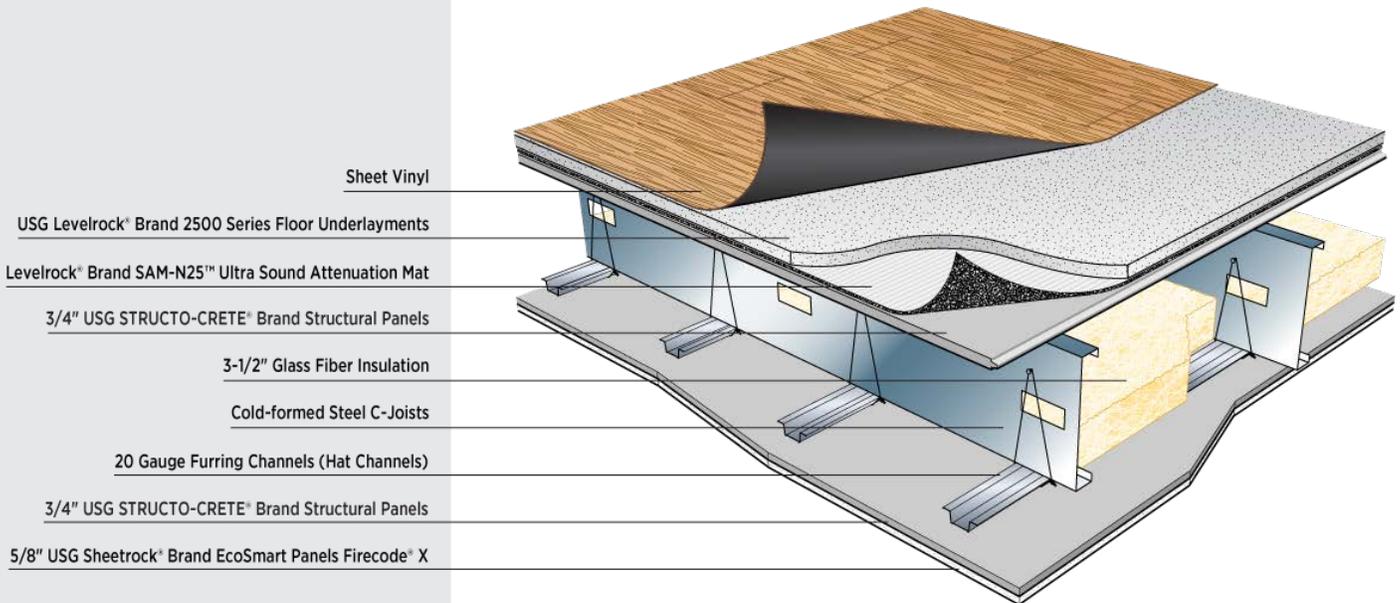
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Sheet Vinyl

USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

20 Gauge Furring Channels (Hat Channels)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	60	58	M9962.41

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 1 0" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened through STRUCTO-CRETE® Panels to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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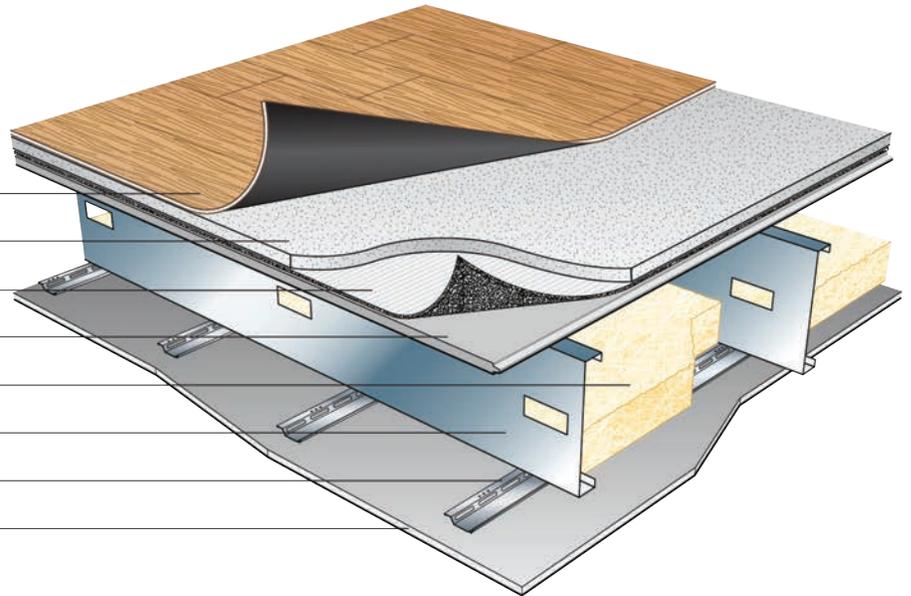
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- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	56	54	M6860.43

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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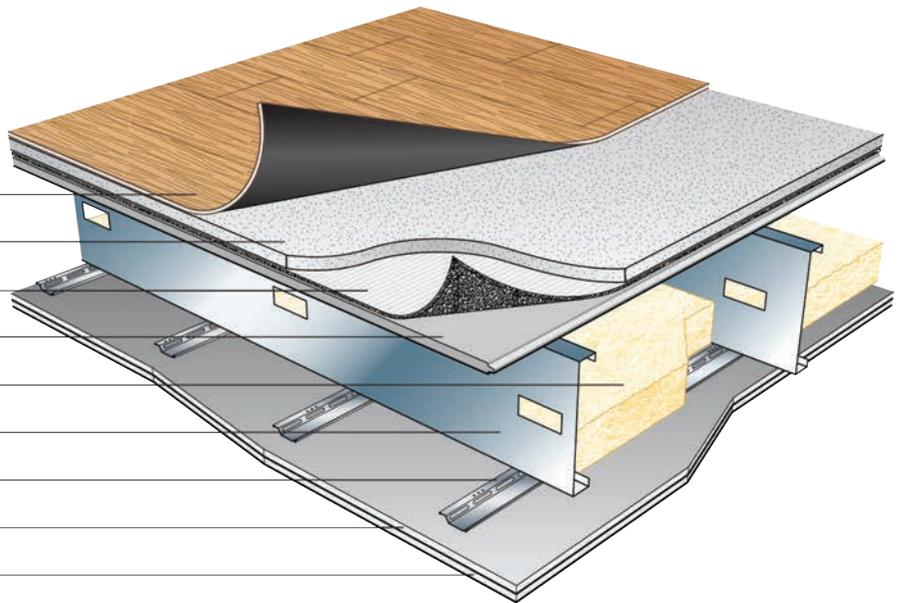
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- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	57	57	M6860.55

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

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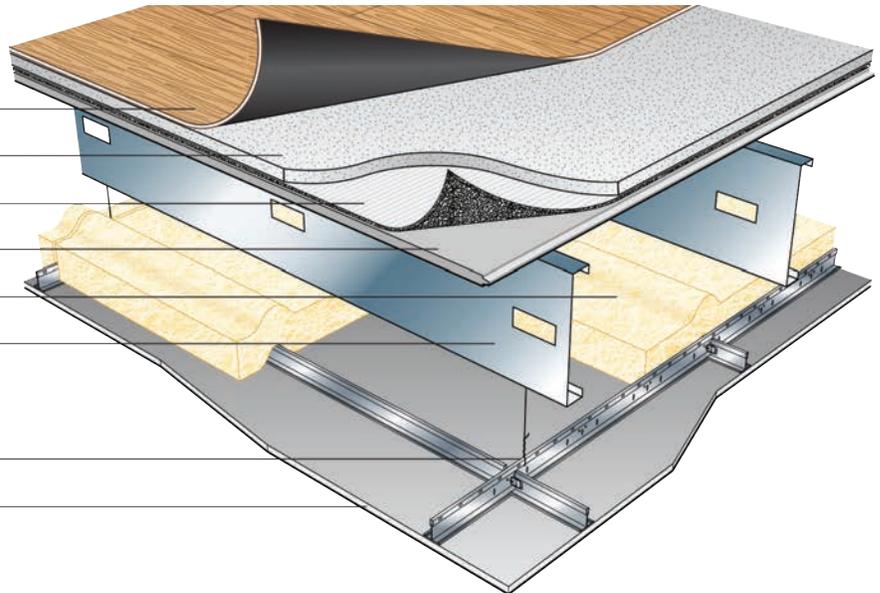
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- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	60	59	M9962.64

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

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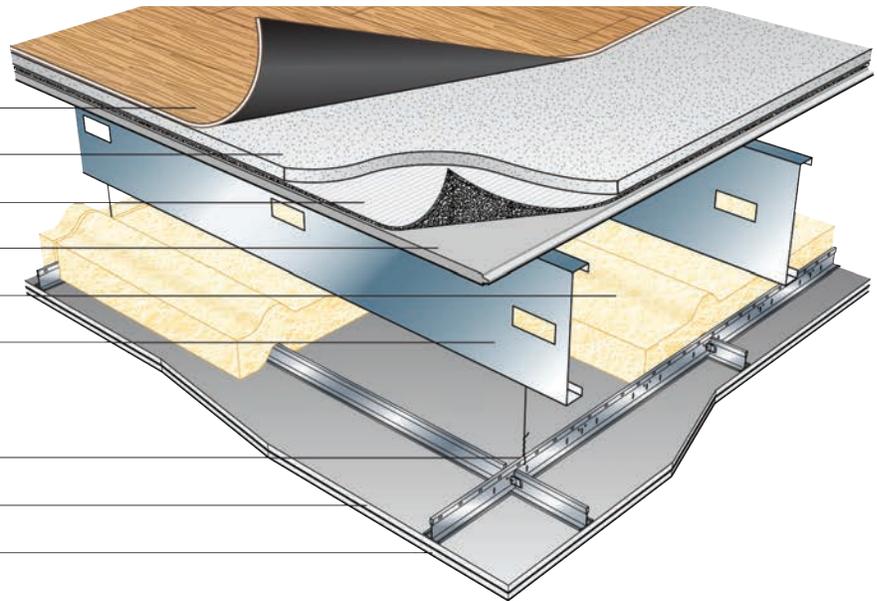
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Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	61	M9962.75

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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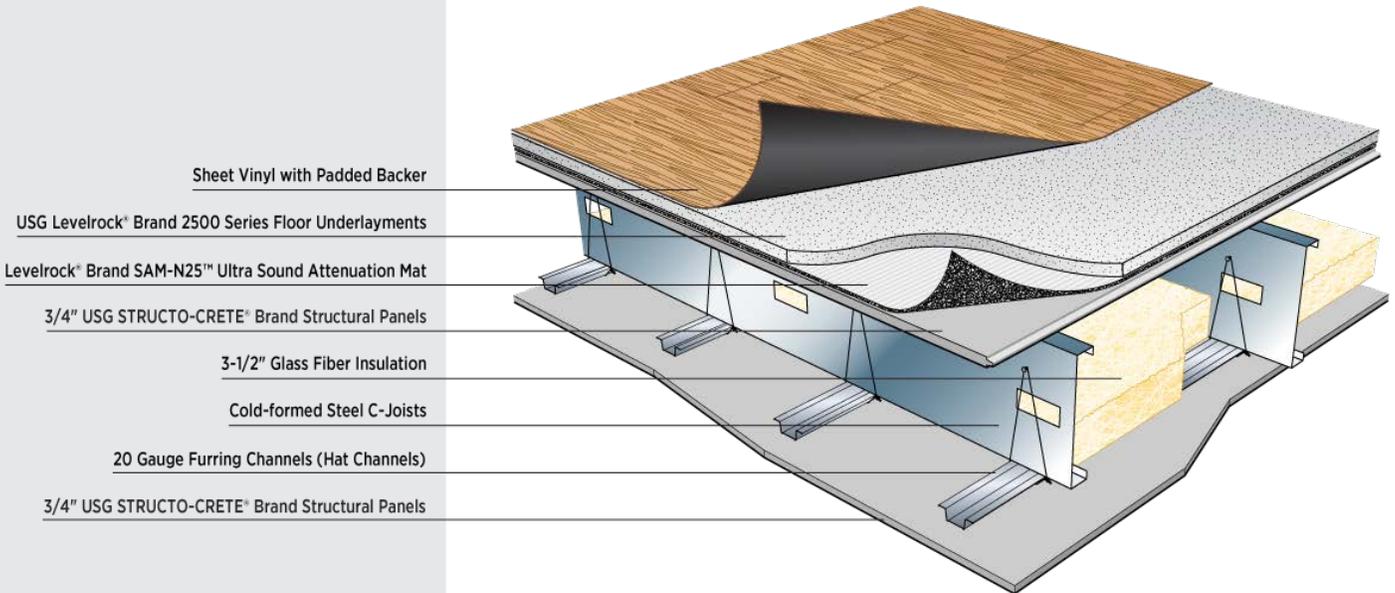
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3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

20 Gauge Furring Channels (Hat Channels)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	58	58	M9962.27

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16"o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8"o.c.

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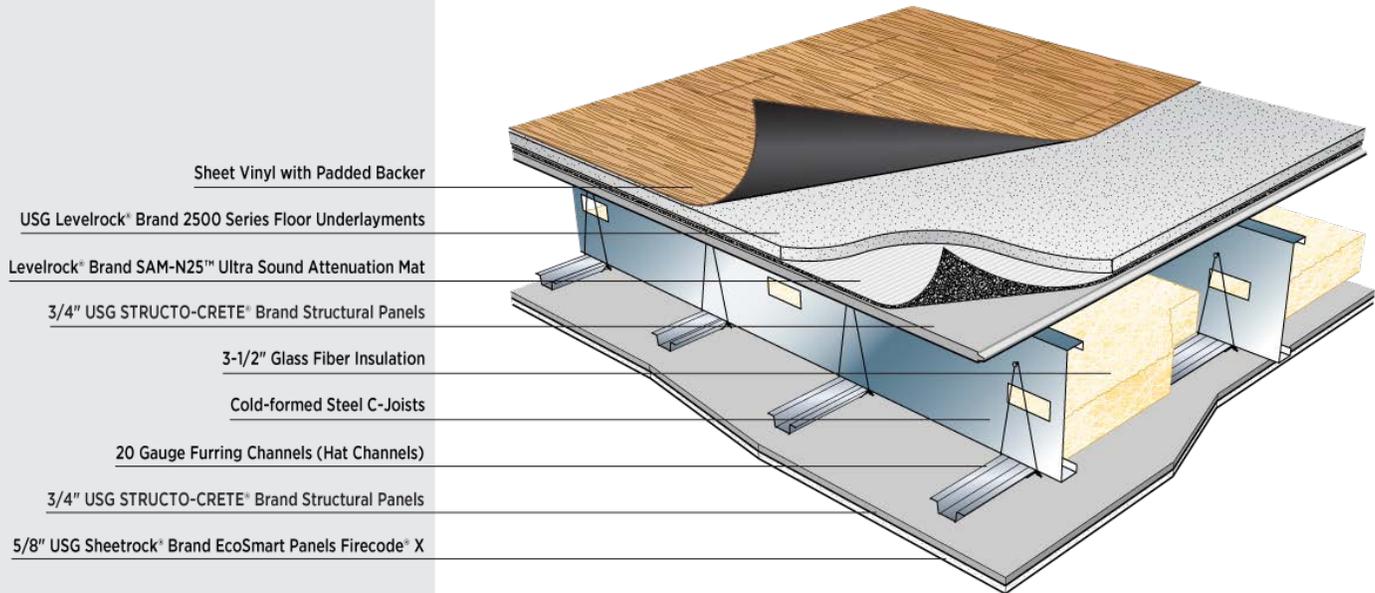
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Sheet Vinyl with Padded Backer +Levelrock® Brand Underlayments

3-hour Fire Design
UL Fire Design G602

www.ULG602.com



Sheet Vinyl with Padded Backer

USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

20 Gauge Furring Channels (Hat Channels)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	59	61	M9962.42

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, min. 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened through STRUCTO-CRETE® Panels to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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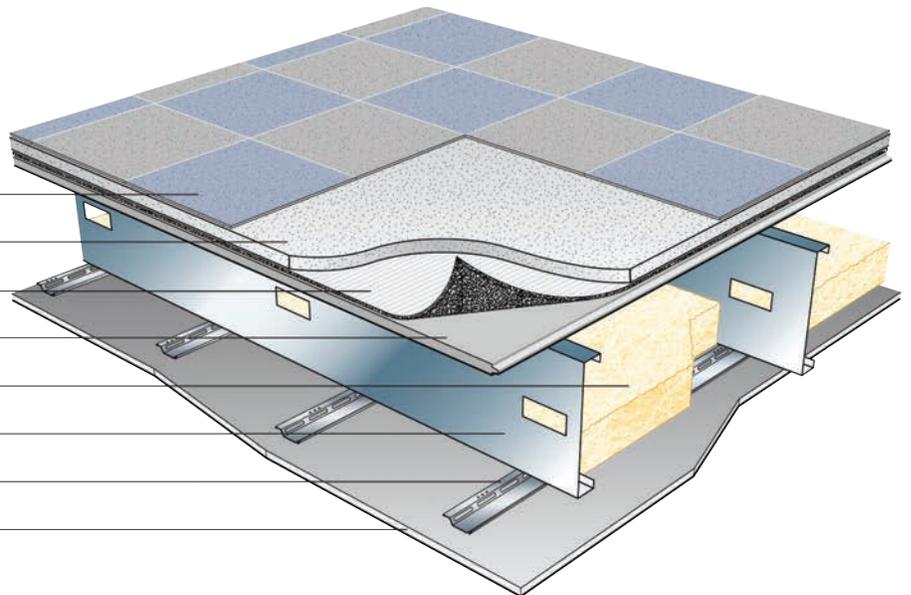
Vinyl Composite Tile (VCT) +Levelrock® Brand Underlayments

2-hour Fire Design

UL Fire Design H505 | GA File No. FC 1903

www.ULH505.com

- Vinyl Composite Tile (VCT)
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	58	54	M6860.44

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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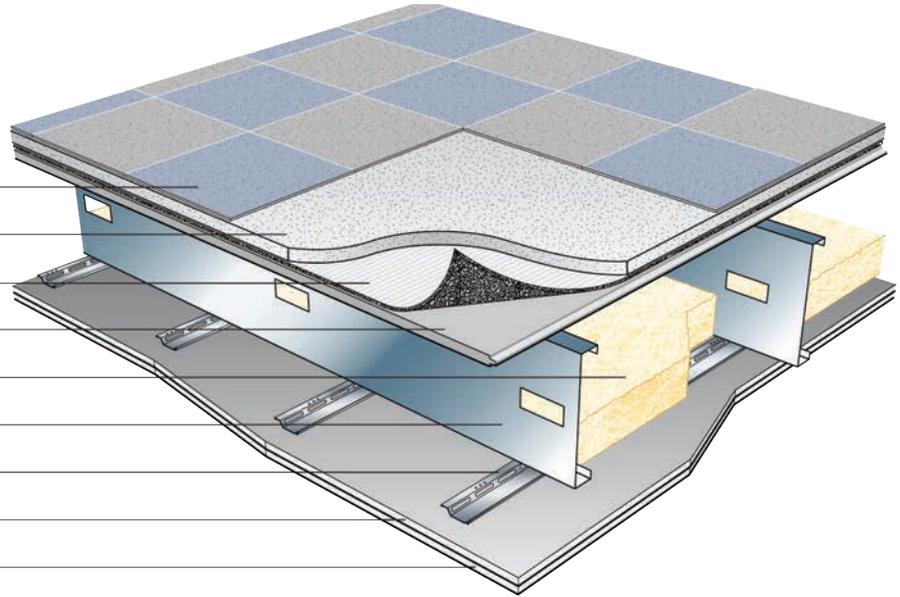
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- Vinyl Composite Tile (VCT)
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	59	56	M6860.56

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12"o.c. Face layer fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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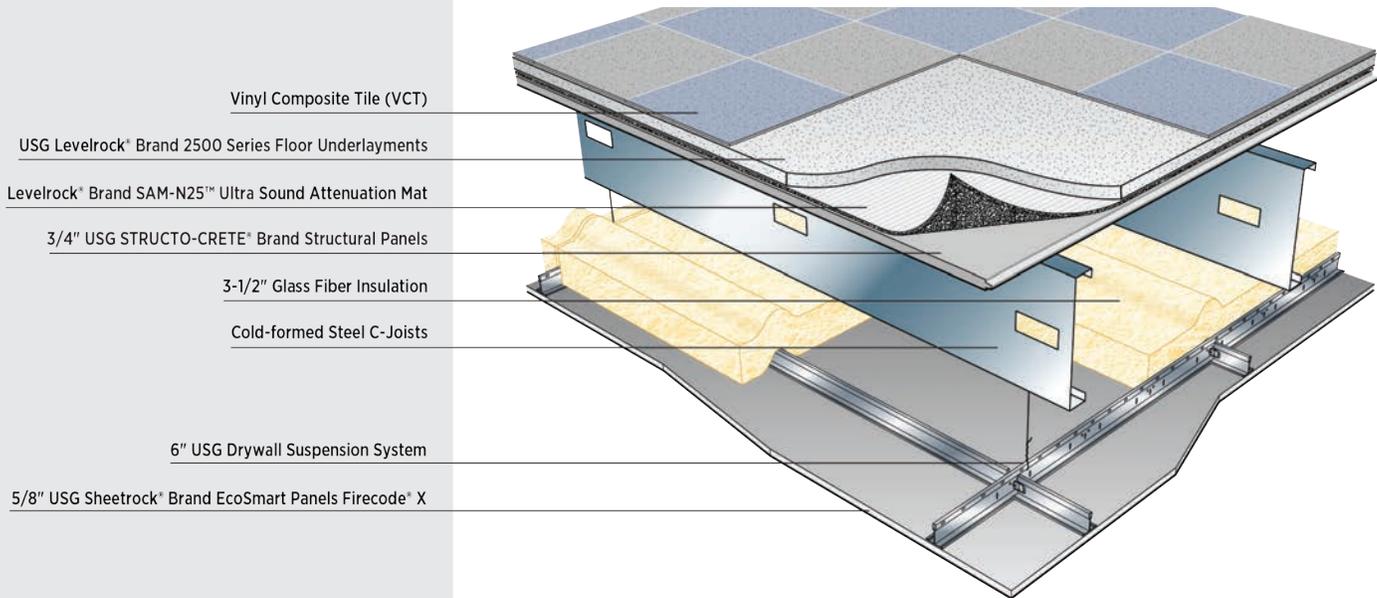
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Vinyl Composite Tile (VCT)

USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

6" USG Drywall Suspension System

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	57	M9962.65

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.U LH505.com).

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Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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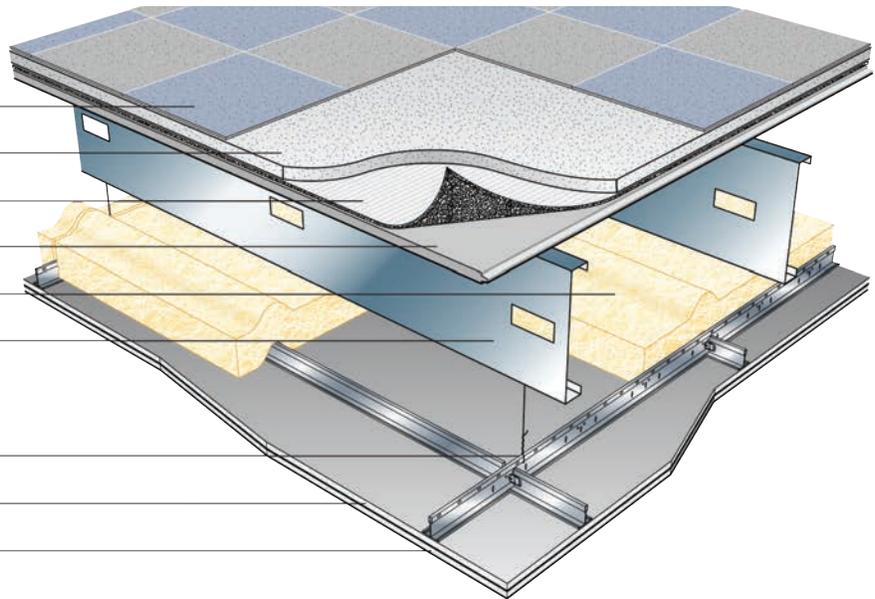
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- Vinyl Composite Tile (VCT)
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	62	60	M9962.76

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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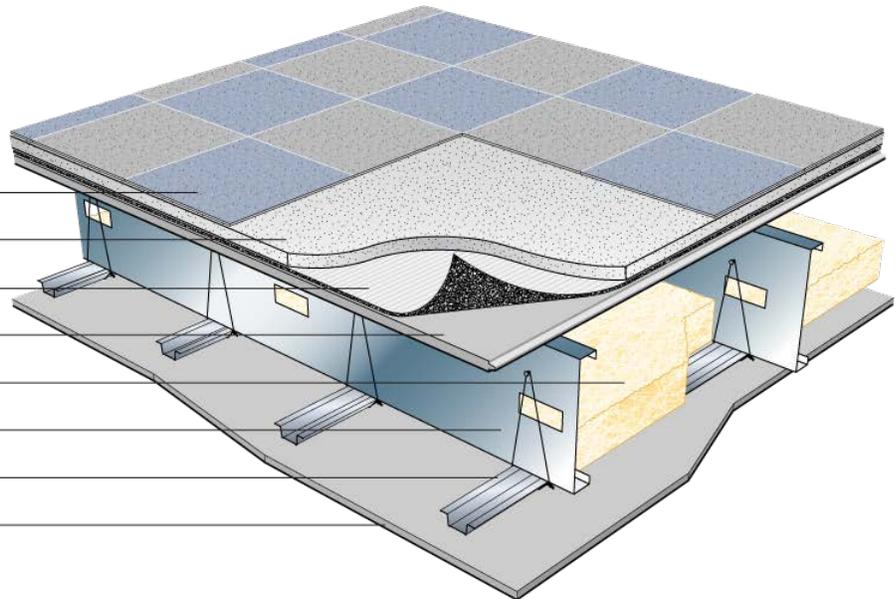
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- Vinyl Composite Tile (VCT)
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- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 20 Gauge Furring Channels (Hat Channels)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	60	57	M9962.28

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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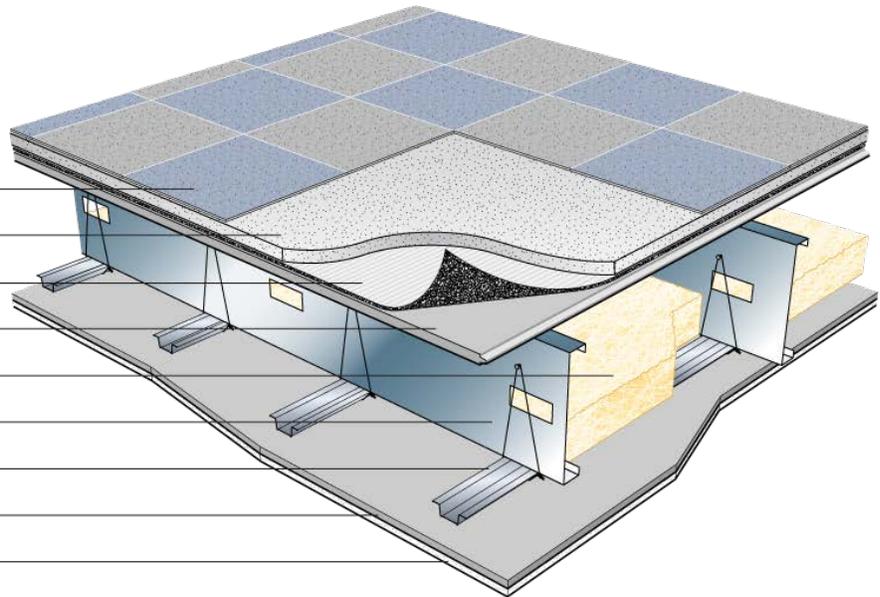
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- Vinyl Composite Tile (VCT)
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 20 Gauge Furring Channels (Hat Channels)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	60	58	M9962.43

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
 - **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
 - **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
 - **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
 - **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.
 - **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened through STRUCTO-CRETE® Panels to furring channels with screws spaced 8" o.c.
- See UL-G602 design for all options and specific details (www.ULG602.com).

Made in Delavan, WI, USA

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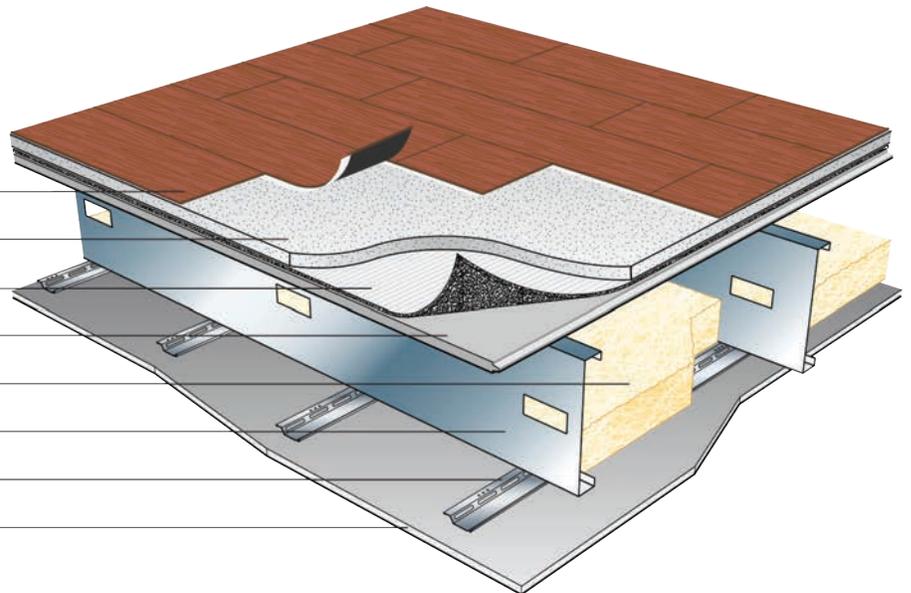
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- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	58	52	M6860.45

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

Made in Delavan, WI, USA

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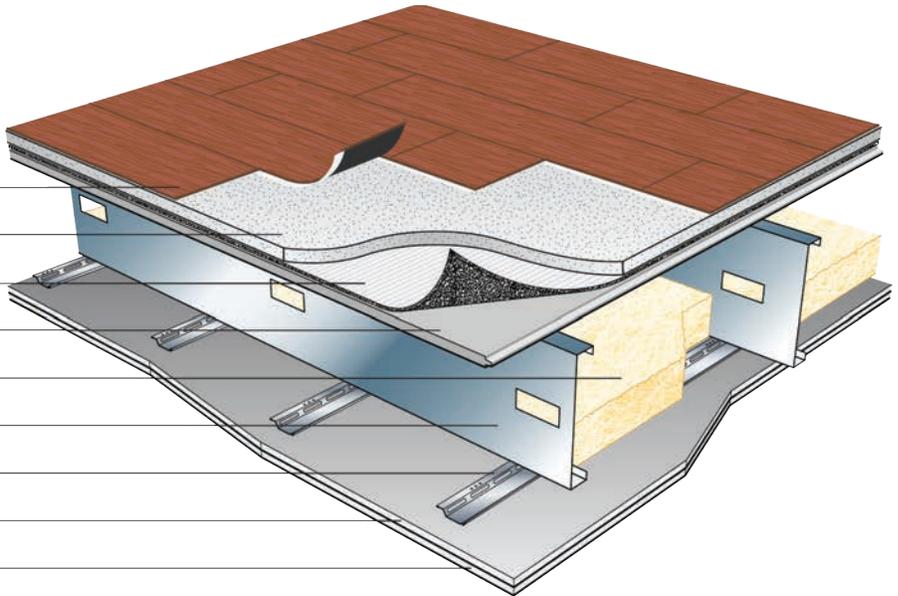
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Luxury Vinyl Tile (LVT)

USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	58	55	M6860.57

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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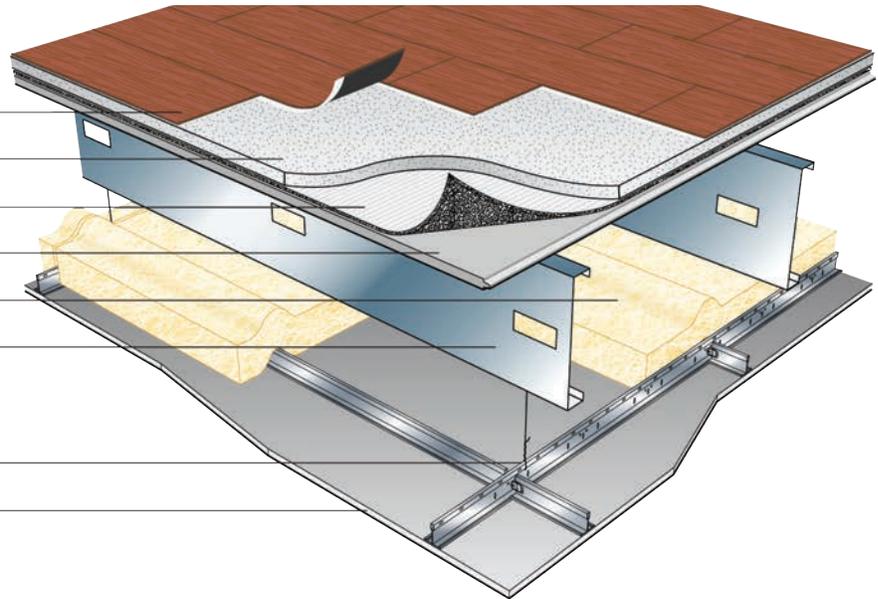
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Luxury Vinyl Tile (LVT2) +Levelrock® Brand Underlayments 2-hour Fire Design UL Fire Design H505 | GA File No. FC 1903 www.ULH505.com

- Luxury Vinyl Tile (LVT)
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	56	M9962.66

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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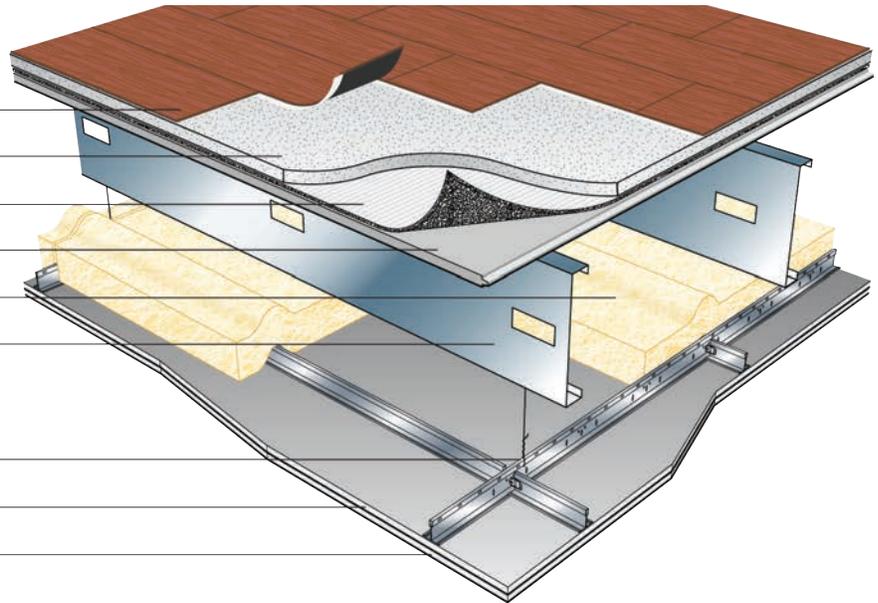
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Luxury Vinyl Tile (LVT2) +Levelrock® Brand Underlayments 2-hour Fire Design UL Fire Design G557

www.ULG557.com

- Luxury Vinyl Tile (LVT)
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	58	M9962.77

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

Made in Delavan, WI, USA

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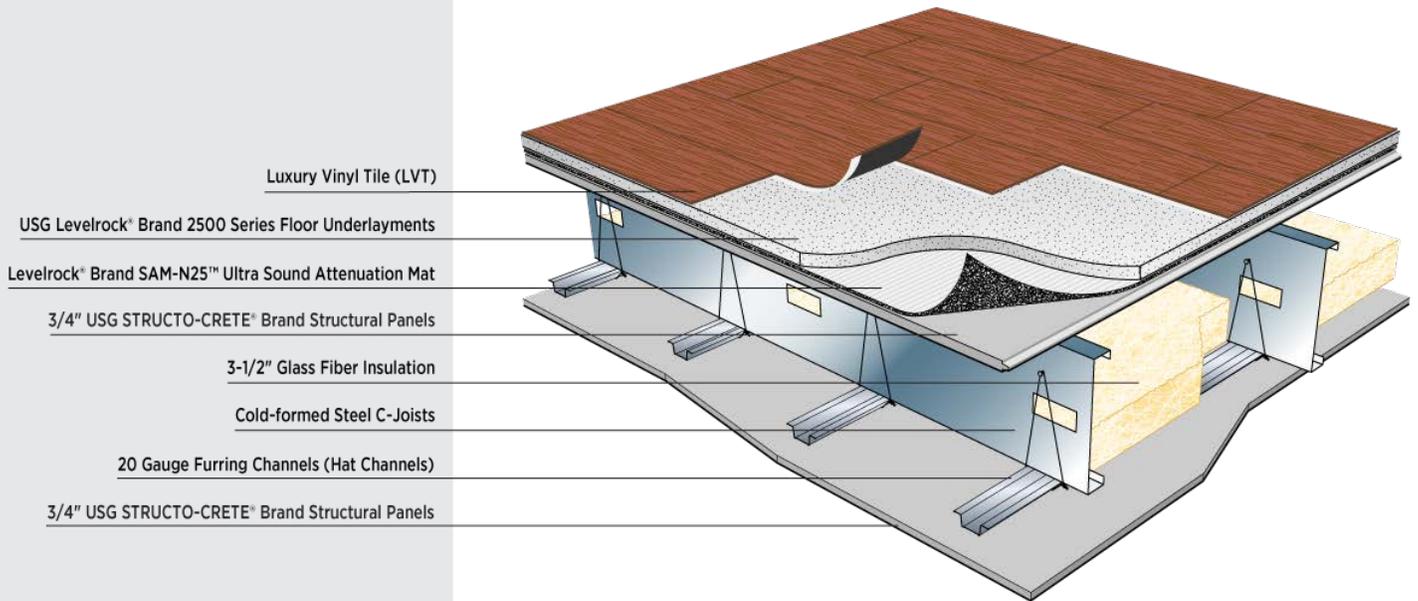
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Luxury Vinyl Tile (LVT2) +Levelrock® Brand Underlayments 2-hour Fire Design UL Fire Design G602 www.ULG602.com



Luxury Vinyl Tile (LVT)

USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

20 Gauge Furring Channels (Hat Channels)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	59	55	M9962.29

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 33-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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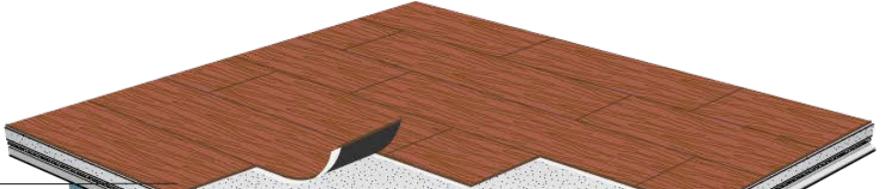
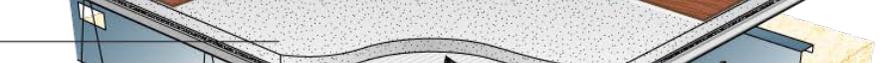
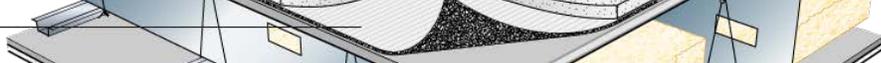
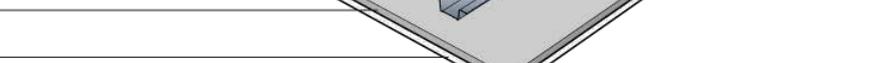
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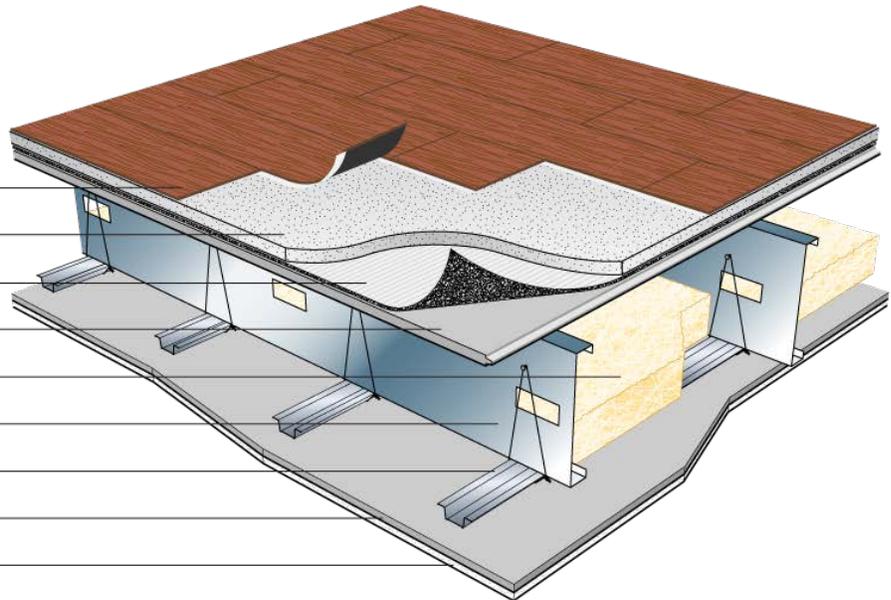
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Luxury Vinyl Tile (LVT2) +Levelrock® Brand Underlayments 3-hour Fire Design UL Fire Design G602 www.ULG602.com

-  Luxury Vinyl Tile (LVT)
-  USG Levelrock® Brand 2500 Series Floor Underlayments
-  Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
-  3/4" USG STRUCTO-CRETE® Brand Structural Panels
-  3-1/2" Glass Fiber Insulation
-  Cold-formed Steel C-Joists
-  20 Gauge Furring Channels (Hat Channels)
-  3/4" USG STRUCTO-CRETE® Brand Structural Panels
-  5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	58	M9962.44

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10' deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16"o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8"o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened through STRUCTO-CRETE® Panels to furring channels with screws spaced 8"o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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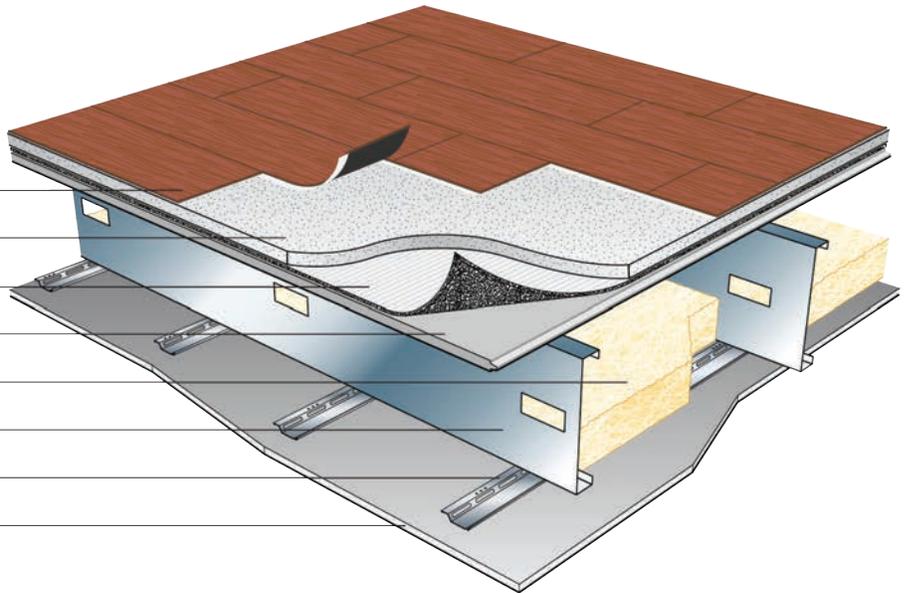
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Luxury Vinyl Tile (LVT5) +Levelrock® Brand Underlayments 2-hour Fire Design UL Fire Design H505 | GA File No. FC 1903 www.ULH505.com

- _____ Luxury Vinyl Tile (LVT)
- _____ USG Levelrock® Brand 2500 Series Floor Underlayments
- _____ Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- _____ 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- _____ 3-1/2" Glass Fiber Insulation
- _____ Cold-formed Steel C-Joists
- _____ ClarkDietrich RC Deluxe® Resilient Channels
- _____ 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	57	54	M6860.46

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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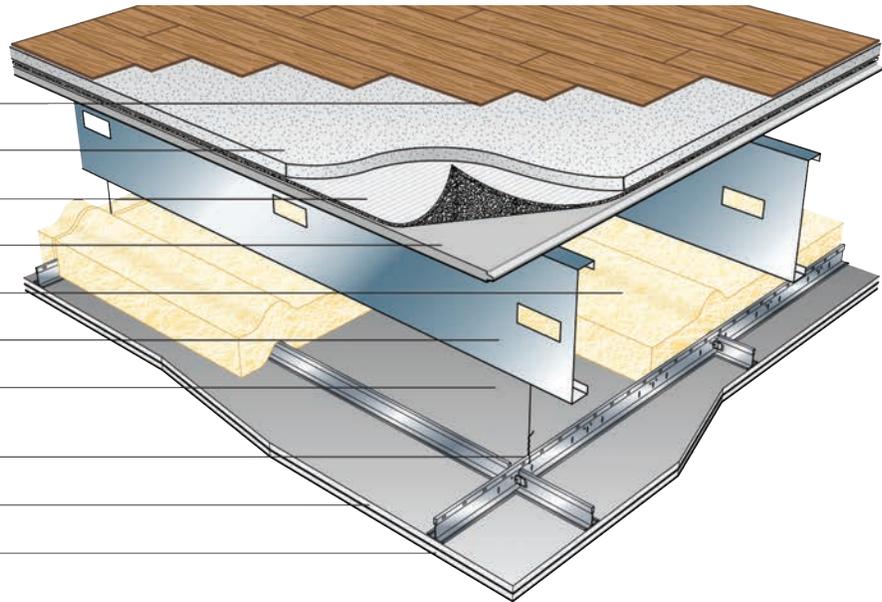
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Luxury Vinyl Tile (LVT5) +Levelrock® Brand Underlayments 2-hour Fire Design UL Fire Design G557 www.ULG557.com

- Engineered Wood Flooring
- USG Levelrock (see table below for thickness)
- Sound Isolation Material (see table below)
- 3/4" STRUCTO-CRETE®
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- RC-1 Resilient Channels
- Drywall Suspension System (6" Suspension)
- 5/8" Sheetrock® BrandEcoSmart Panels Firecode® X
- 5/8" Sheetrock® BrandEcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	58	57	M6860.58

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12"o.c. Face layer fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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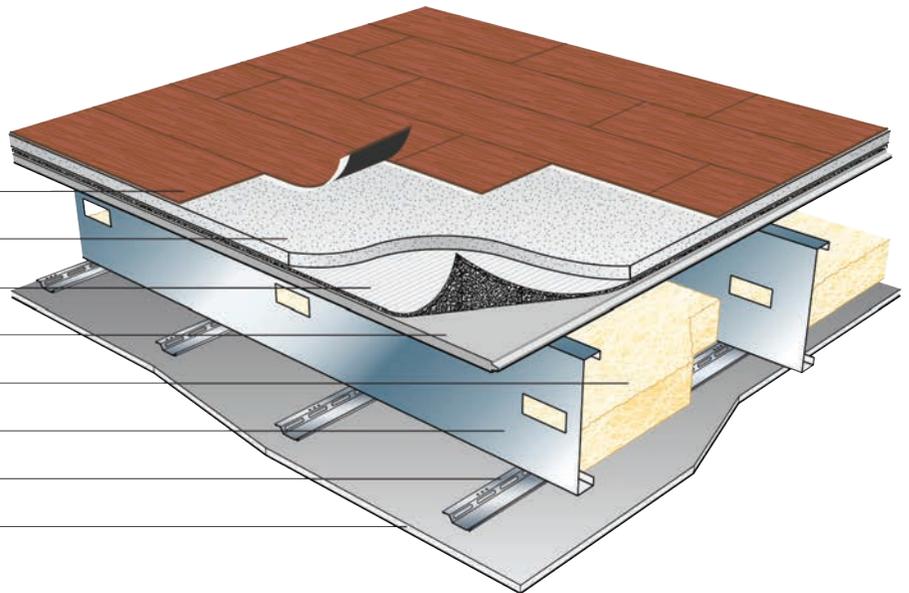
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- _____ Luxury Vinyl Tile (LVT)
- _____ USG Levelrock® Brand 2500 Series Floor Underlayments
- _____ Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- _____ 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- _____ 3-1/2" Glass Fiber Insulation
- _____ Cold-formed Steel C-Joists
- _____ ClarkDietrich RC Deluxe® Resilient Channels
- _____ 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	58	53	M6860.47

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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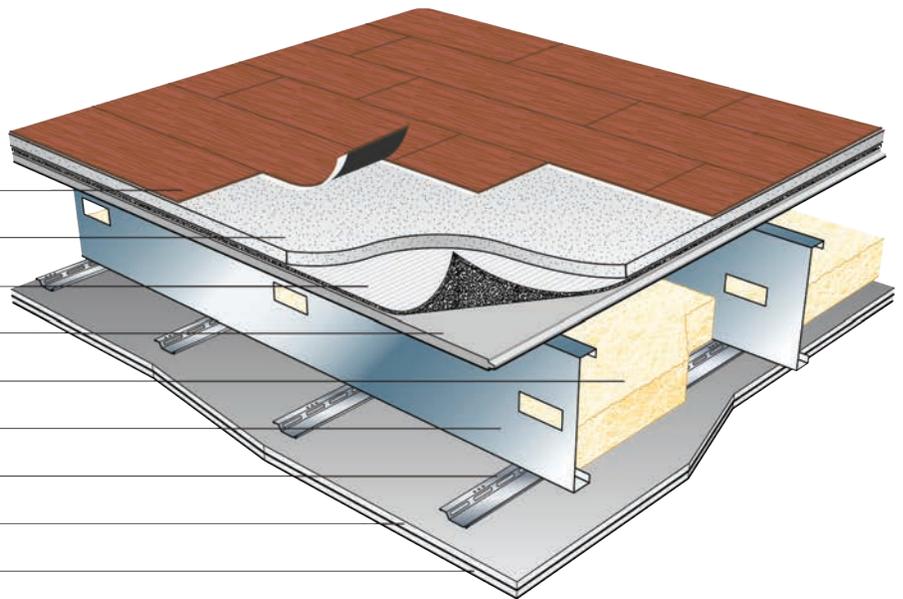
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- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	58	56	M6860.59

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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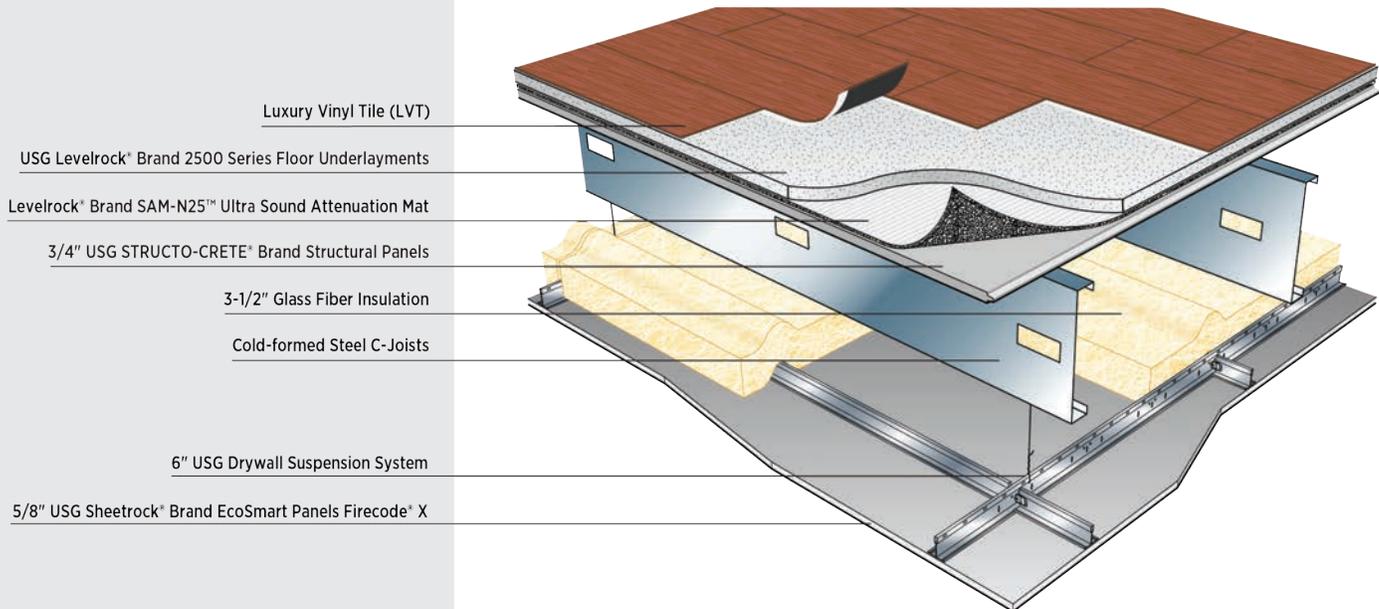
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Luxury Vinyl Tile (LVT5.5) +Levelrock® Brand Underlayments 2-hour Fire Design UL Fire Design H505 | GA File No. FC1903 www.ULH505.com



Luxury Vinyl Tile (LVT)

USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

6" USG Drywall Suspension System

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	56	M9962.67

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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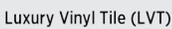
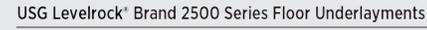
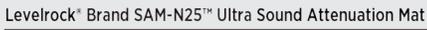
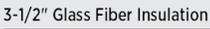
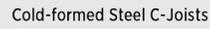
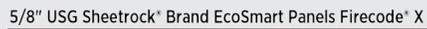
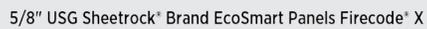
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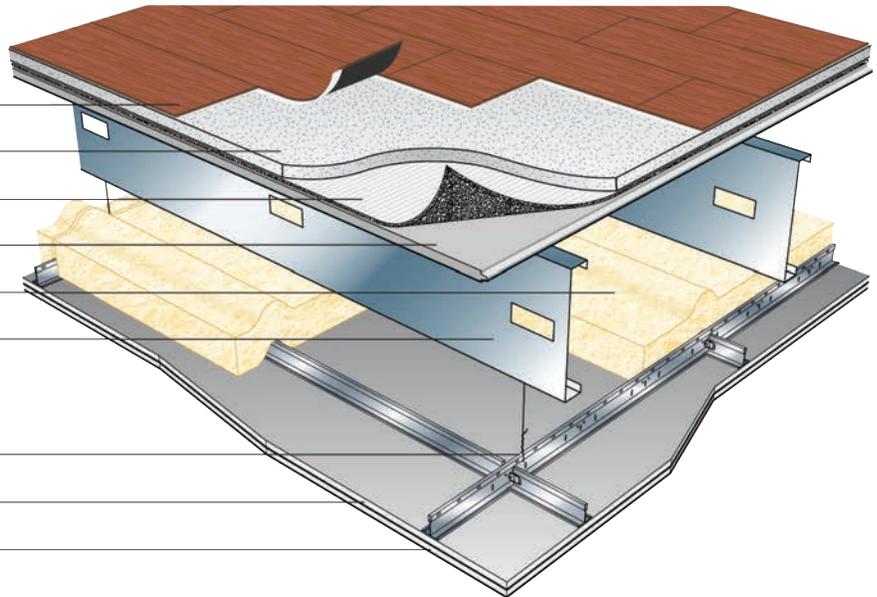
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-  USG Levelrock® Brand 2500 Series Floor Underlayments
-  Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
-  3/4" USG STRUCTO-CRETE® Brand Structural Panels
-  3-1/2" Glass Fiber Insulation
-  Cold-formed Steel C-Joists
-  6" USG Drywall Suspension System
-  5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
-  5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	59	M9962.78

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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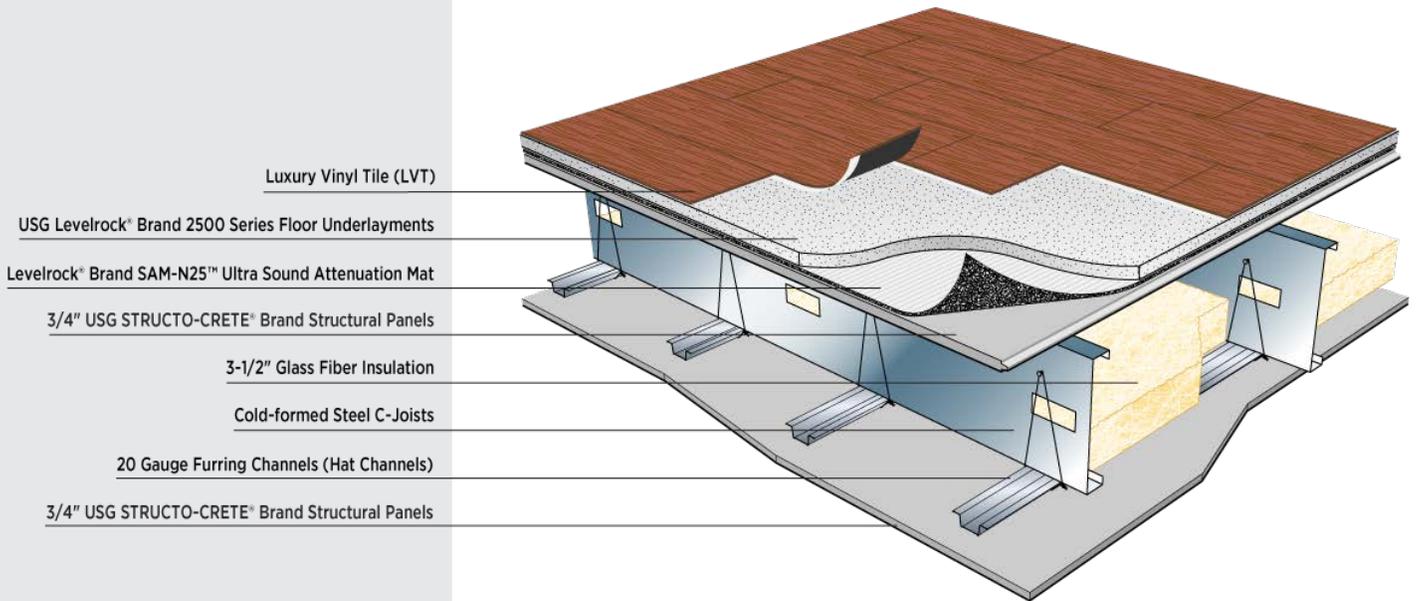
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Luxury Vinyl Tile (LVT5.5) +Levelrock® Brand Underlayments 2-hour Fire Design UL Fire Design G602 www.ULG602.com



Luxury Vinyl Tile (LVT)

USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

20 Gauge Furring Channels (Hat Channels)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	60	57	M9962.30

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c. See UL-G602 design for all options and specific details (www.ULG602.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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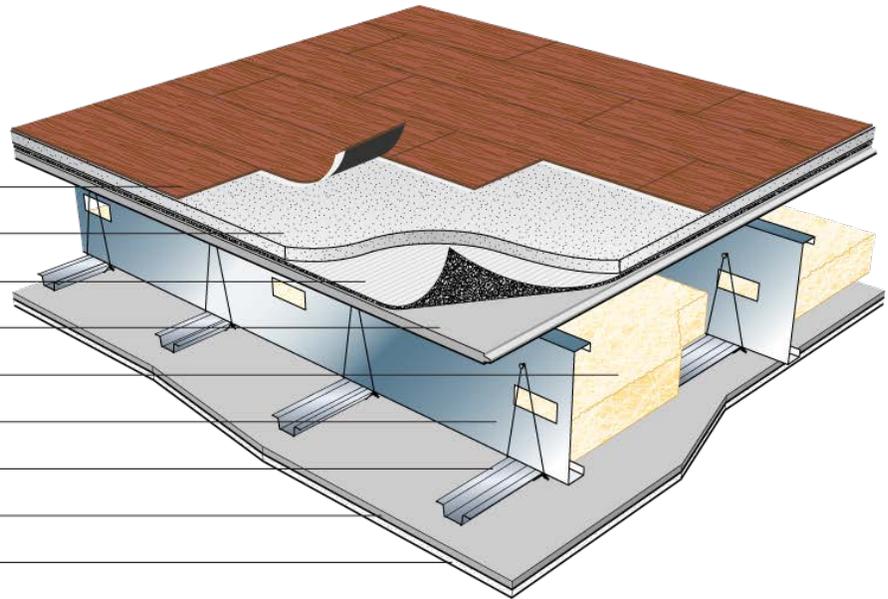
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- Luxury Vinyl Tile (LVT)
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 20 Gauge Furring Channels (Hat Channels)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	58	M9962.45

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
 - **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
 - **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
 - **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
 - **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.
 - **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened through STRUCTO-CRETE® Panels to furring channels with screws spaced 8" o.c.
- See UL-G602 design for all options and specific details (www.ULG602.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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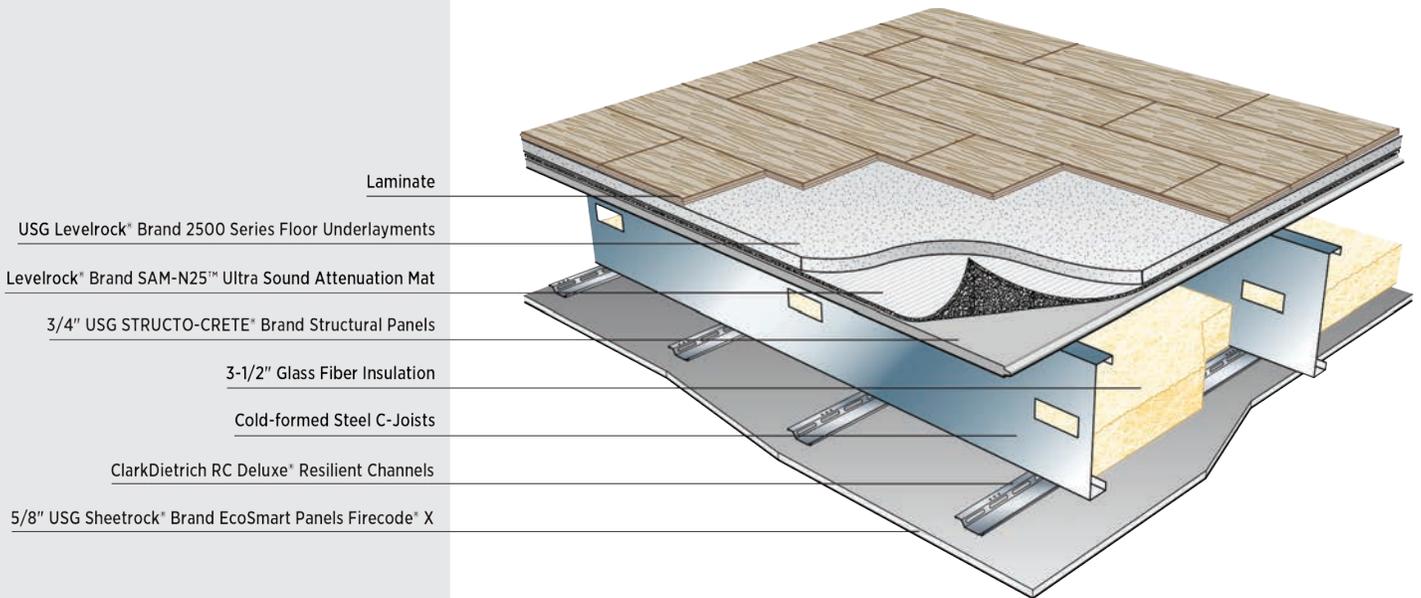
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Laminate +Levelrock® Brand Underlayments 2-hour Fire Design UL Fire Design H505 | GA File No. FC 1903 www.ULH505.com



- Laminate
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	57	55	M6860.48

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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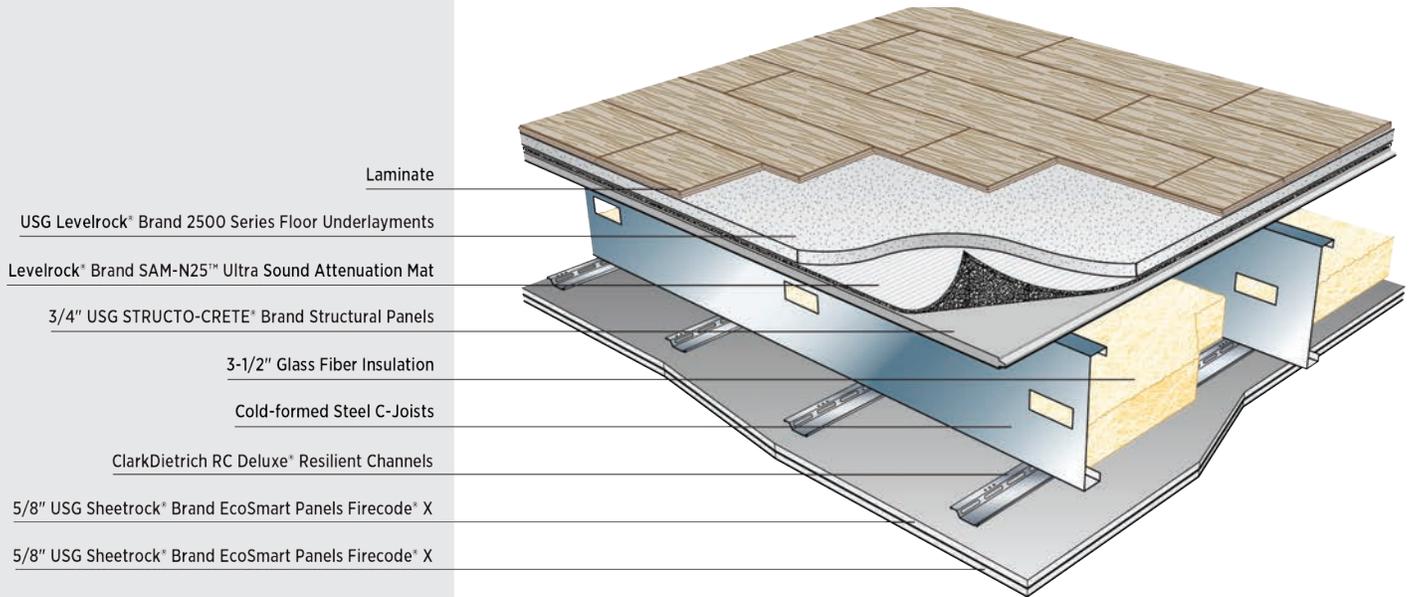
Laminate

+Levelrock® Brand Underlayments

2-hour Fire Design

UL Fire Design G557

www.ULG557.com



- Laminate
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- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	58	58	M6860.60

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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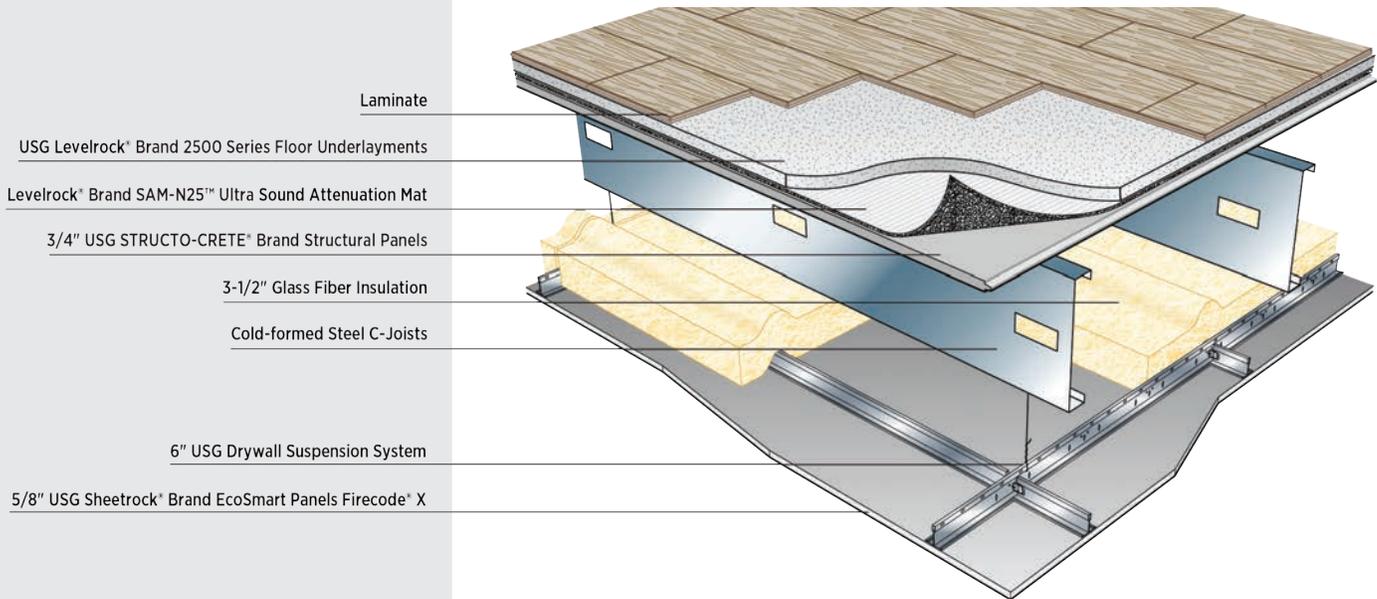
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+Levelrock® Brand Underlayments

2-hour Fire Design

UL Fire Design H505 | GA File No. FC1903

www.ULH505.com



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	57	M9962.68

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

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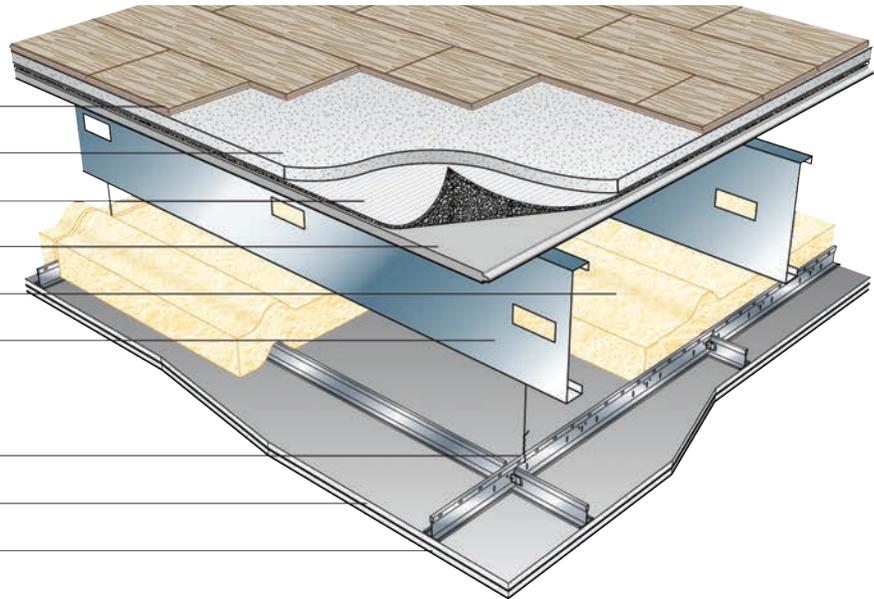
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- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	60	M9962.79

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

Made in Delavan, WI, USA

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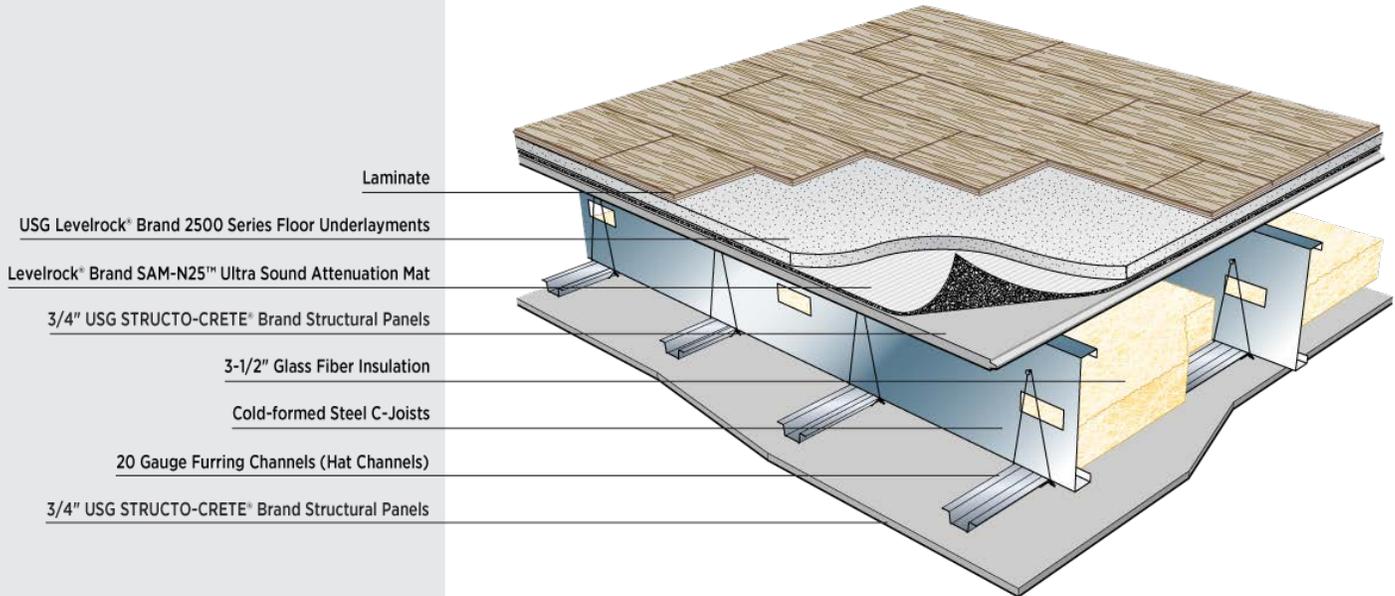
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+Levelrock® Brand Underlayments

2-hour Fire Design

UL Fire Design G602

www.ULG602.com



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- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 20 Gauge Furring Channels (Hat Channels)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	60	58	M9962.31

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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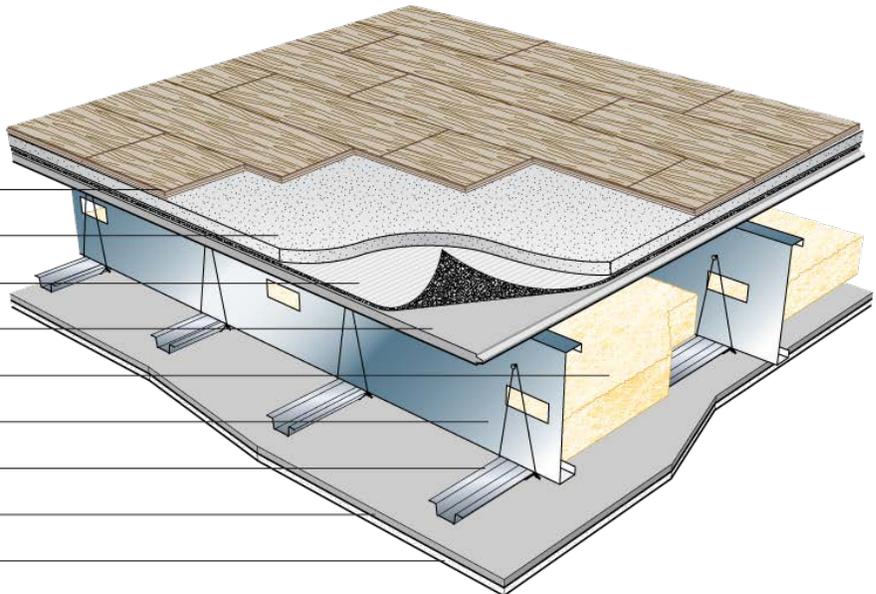
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Laminate +Levelrock® Brand Underlayments

3-hour Fire Design UL Fire Design G602

www.ULG602.com

- Laminate
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 20 Gauge Furring Channels (Hat Channels)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	60	M9962.46

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened through STRUCTO-CRETE® Panels to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

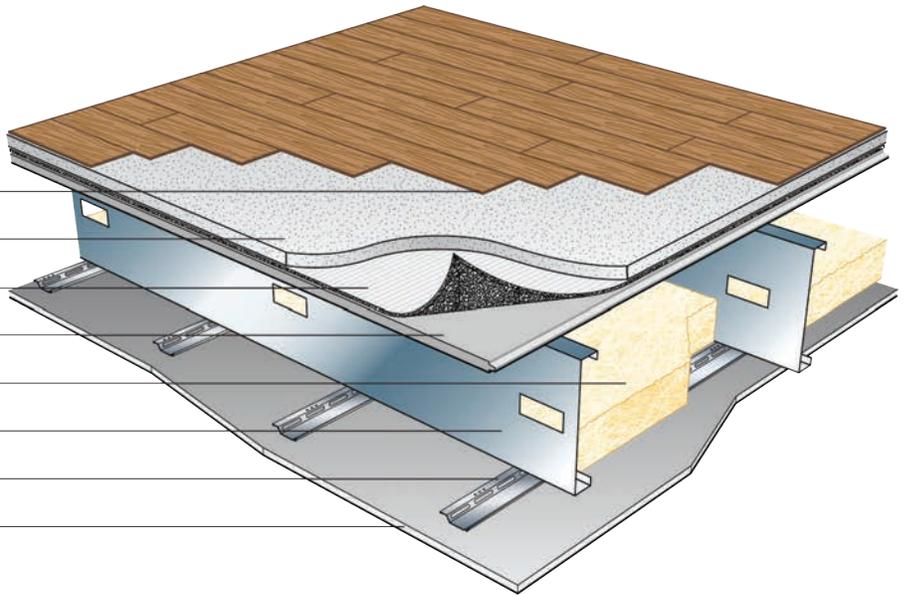
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1/2" Engineered Wood +Levelrock® Brand Underlayments 2-hour Fire Design UL Fire Design H505 | GA File No. FC 1903 www.ULH505.com



Engineered Wood Flooring

USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	57	55	M6860.49

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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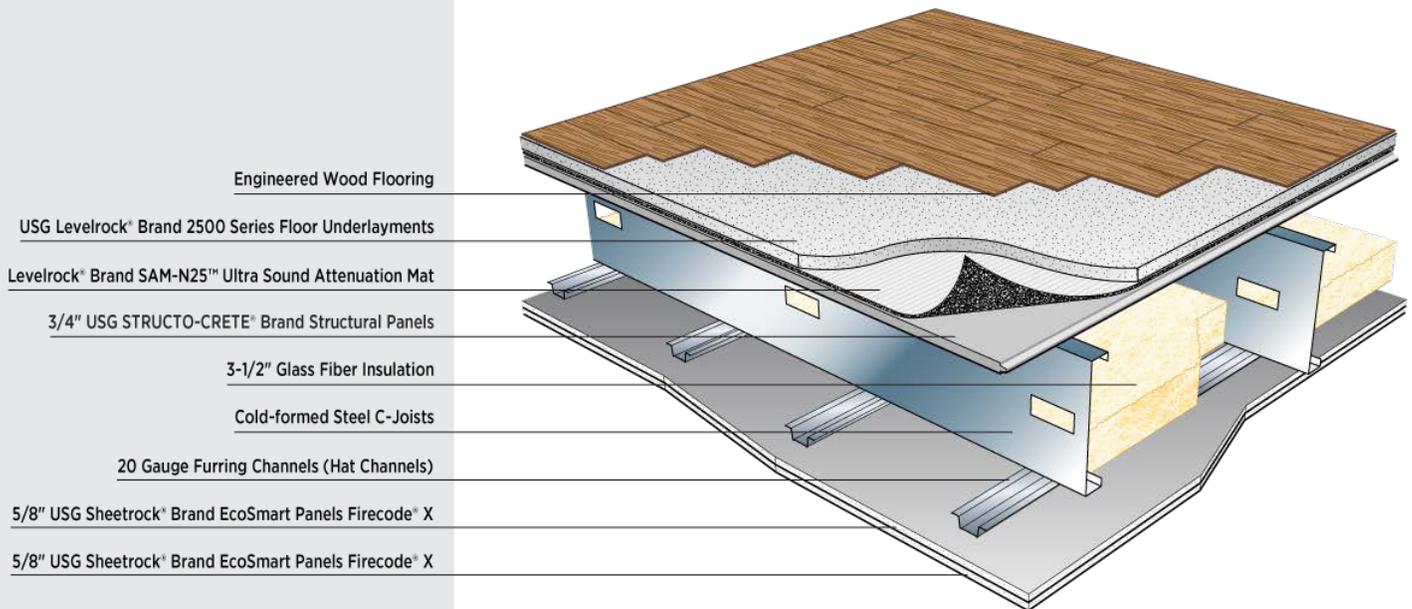
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1/2" Engineered Wood +Levelrock® Brand Underlayments 2-hour Fire Design UL Fire Design G557

www.ULG557.com



Engineered Wood Flooring

USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

20 Gauge Furring Channels (Hat Channels)

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	59	59	M6860.61

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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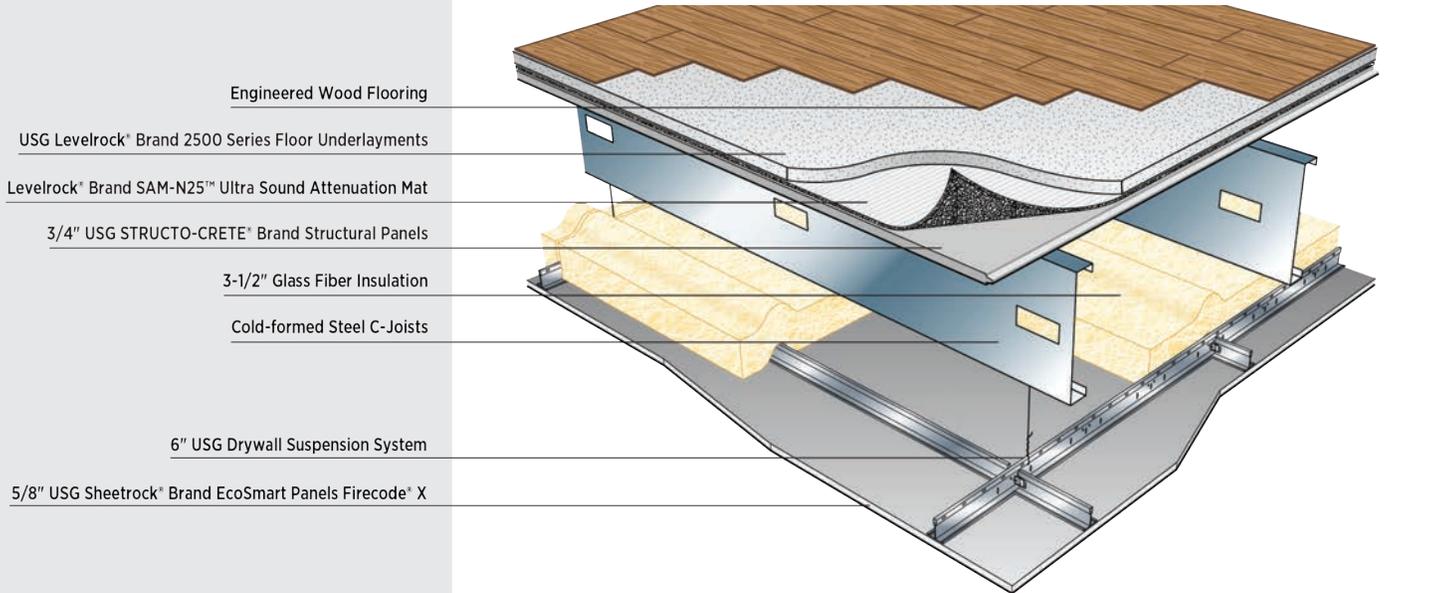
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Engineered Wood Flooring

USG Levelrock® Brand 2500 Series Floor Underlayments

Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

6" USG Drywall Suspension System

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	57	M9962.69

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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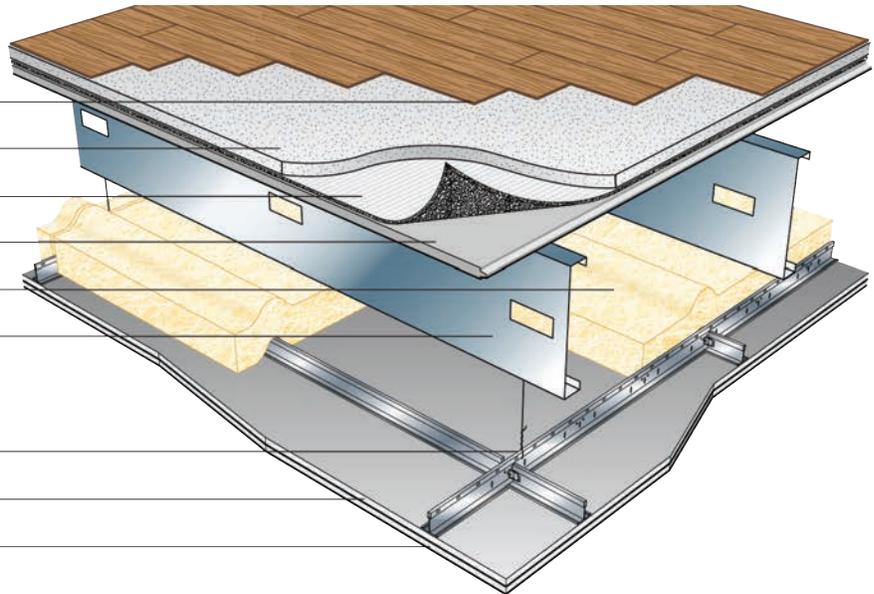
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1/2" Engineered Wood +Levelrock® Brand Underlayments 2-hour Fire Design UL Fire Design G557

www.ULG557.com

- Engineered Wood Flooring
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	61	M9962.80

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

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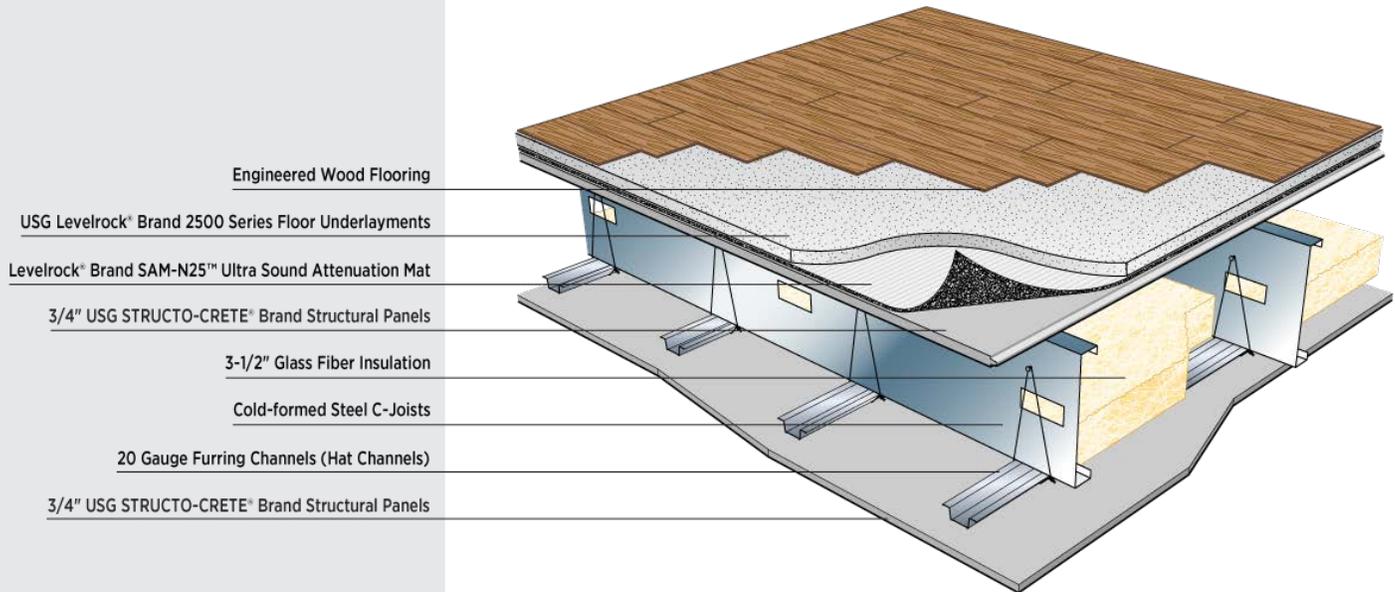
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1/2" Engineered Wood +Levelrock® Brand Underlayments 2-hour Fire Design UL Fire Design G602

www.ULG602.com



- Engineered Wood Flooring
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 20 Gauge Furring Channels (Hat Channels)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	58	M9962.32

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and 7/8" deep, 33 mil. (20 gauge), spaced 16"o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8"o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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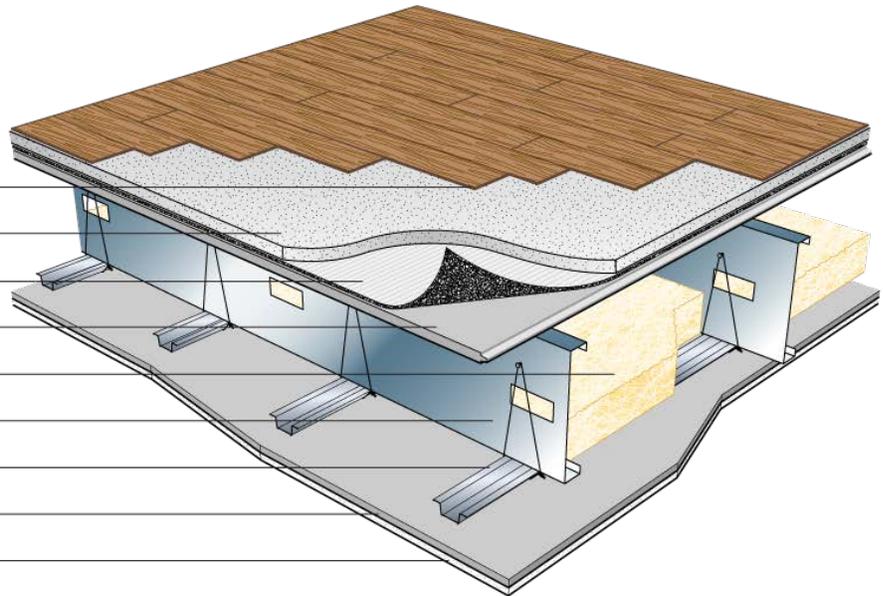
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- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 20 Gauge Furring Channels (Hat Channels)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	60	M9962.47

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16"o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8"o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened through STRUCTO-CRETE® Panels To furring channels with screws spaced 8"o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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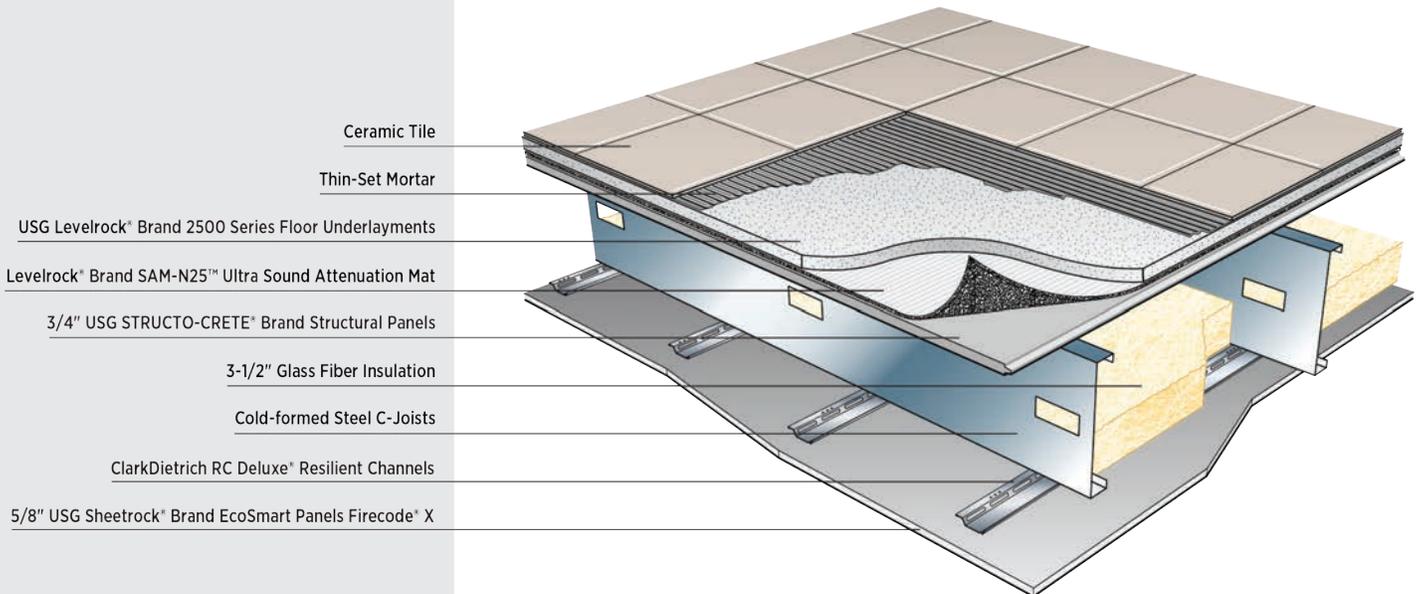
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- Ceramic Tile
- Thin-Set Mortar
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	59	53	M6860.50

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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12"x12" Ceramic Tile

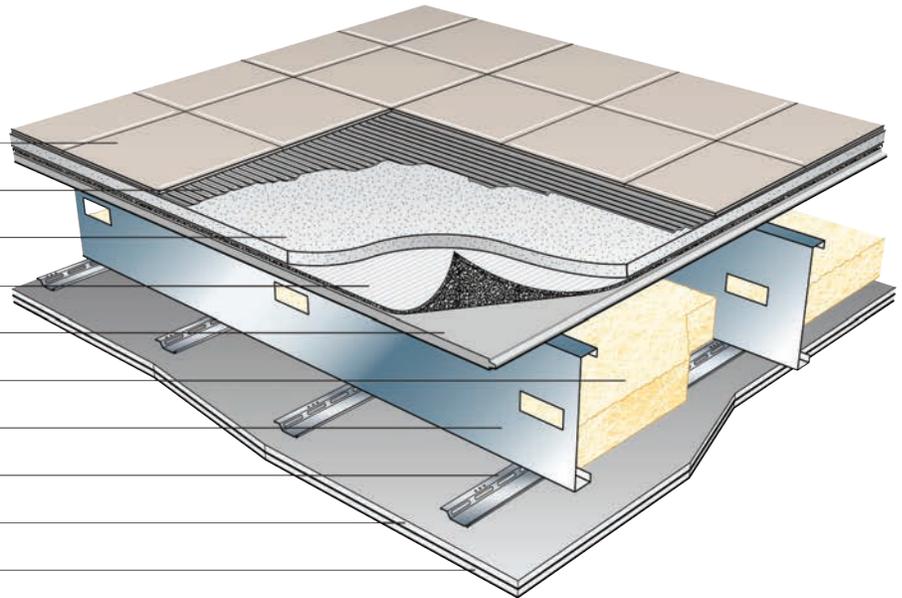
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2-hour Fire Design

UL Fire Design G557

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- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	60	55	M6860.62

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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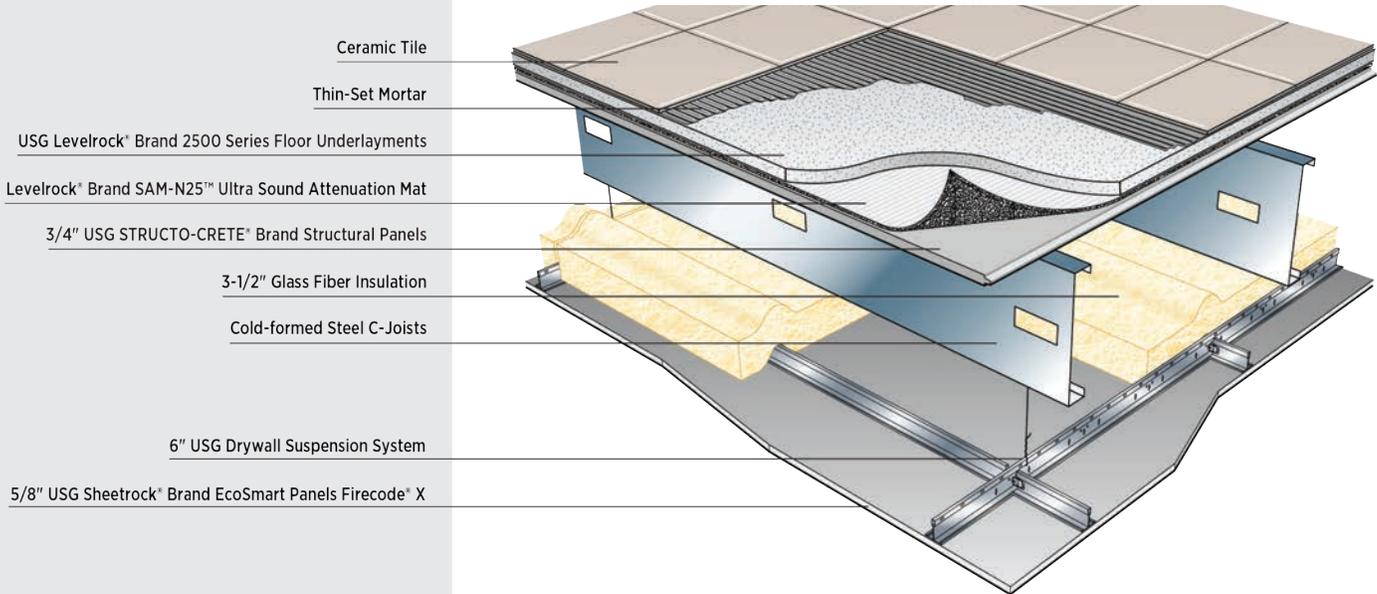
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12"x12" Ceramic Tile +Levelrock® Brand Underlayments 2-hour Fire Design UL Fire Design H505 | GA File No. FC1903 www.ULH505.com



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	58	M9962.70

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

Made in Delavan, WI, USA

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12"x12" Ceramic Tile

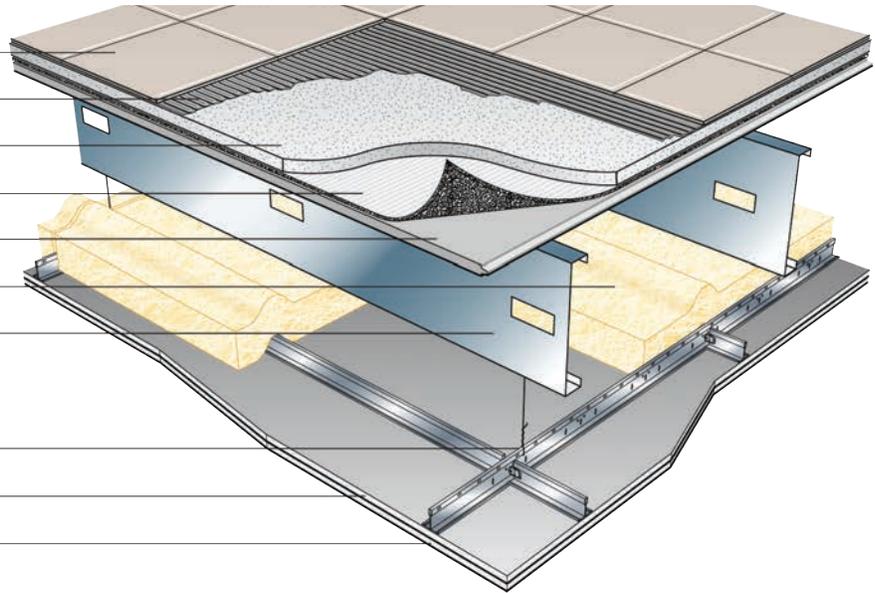
+Levelrock® Brand Underlayments

2-hour Fire Design

UL Fire Design G557

www.ULG557.com

- Ceramic Tile
- Thin-Set Mortar
- USG Levelrock® Brand 2500 Series Floor Underlayments
- Levelrock® Brand SAM-N25™ Ultra Sound Attenuation Mat
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	62	60	M9962.81

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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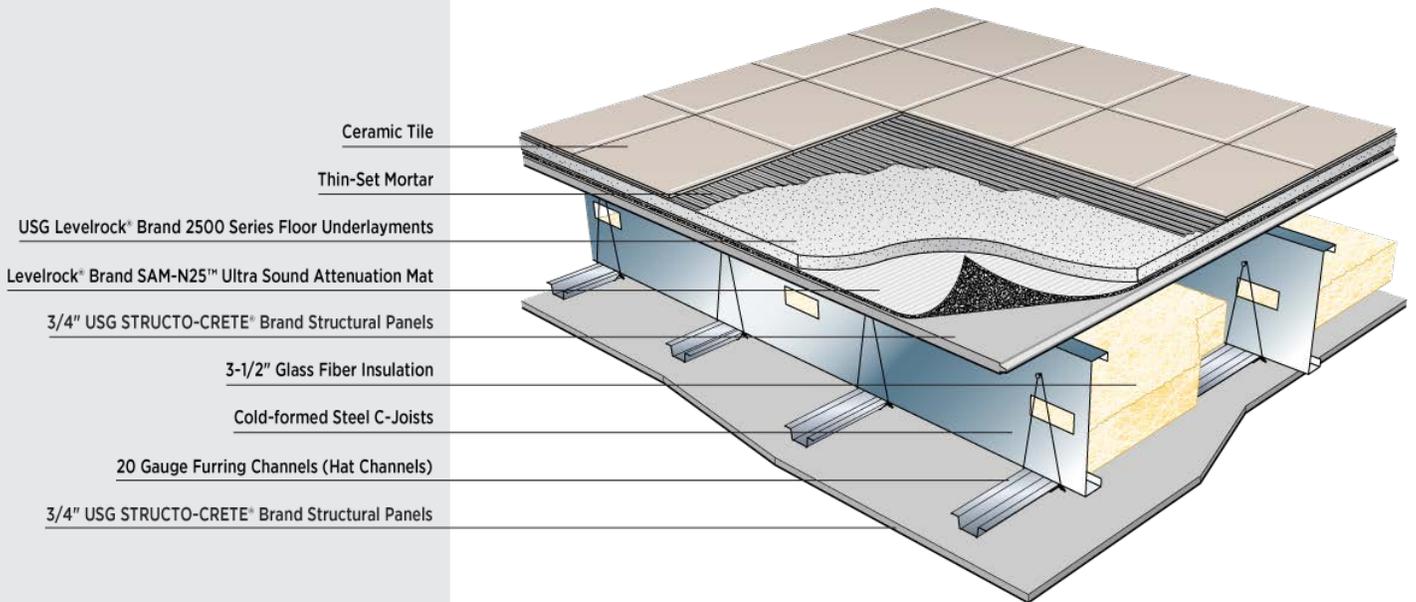
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12"x12" Ceramic Tile +Levelrock® Brand Underlayments 2-hour Fire Design UL Fire Design G602

www.ULG602.com



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	59	56	M9962.33

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, min. 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16"o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8"o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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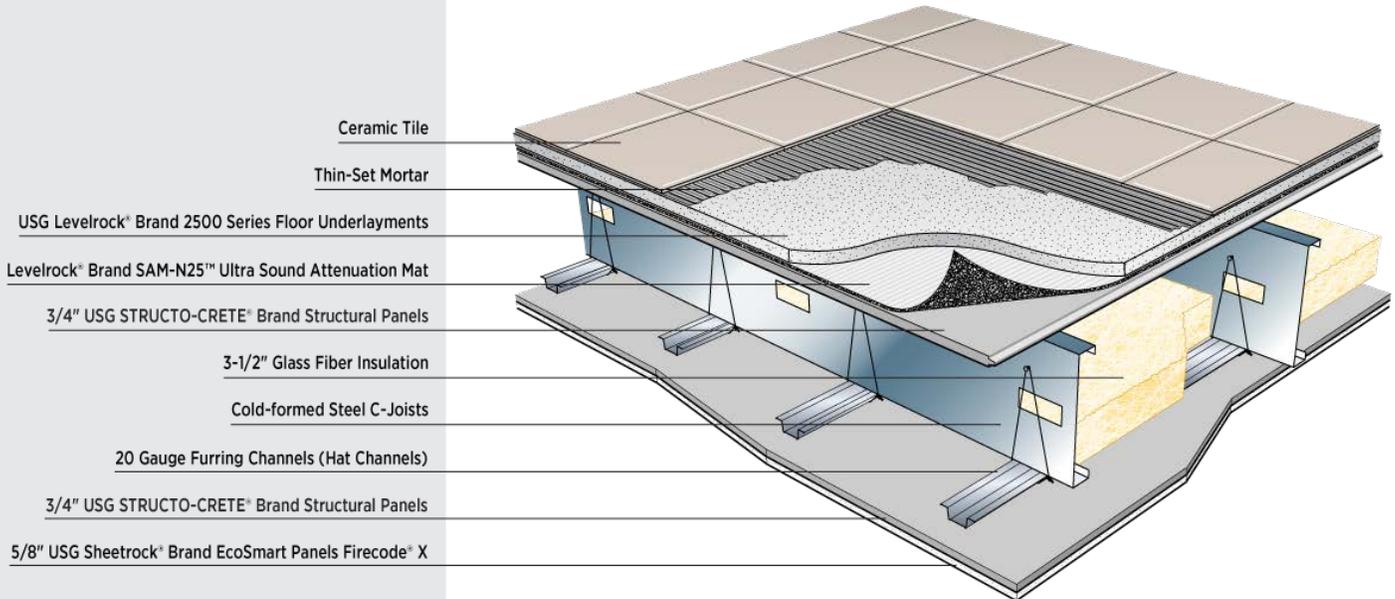
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12"x12" Ceramic Tile +Levelrock® Brand Underlayments 3-hour Fire Design UL Fire Design G602

www.ULG602.com



Levelrock® Brand Sound Mat	STC	IIC	USG Design No.
SAM-N25™ Ultra	61	58	M9962.48

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, min. 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16"o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8"o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened through STRUCTO-CRETE® Panels to furring channels with screws spaced 8"o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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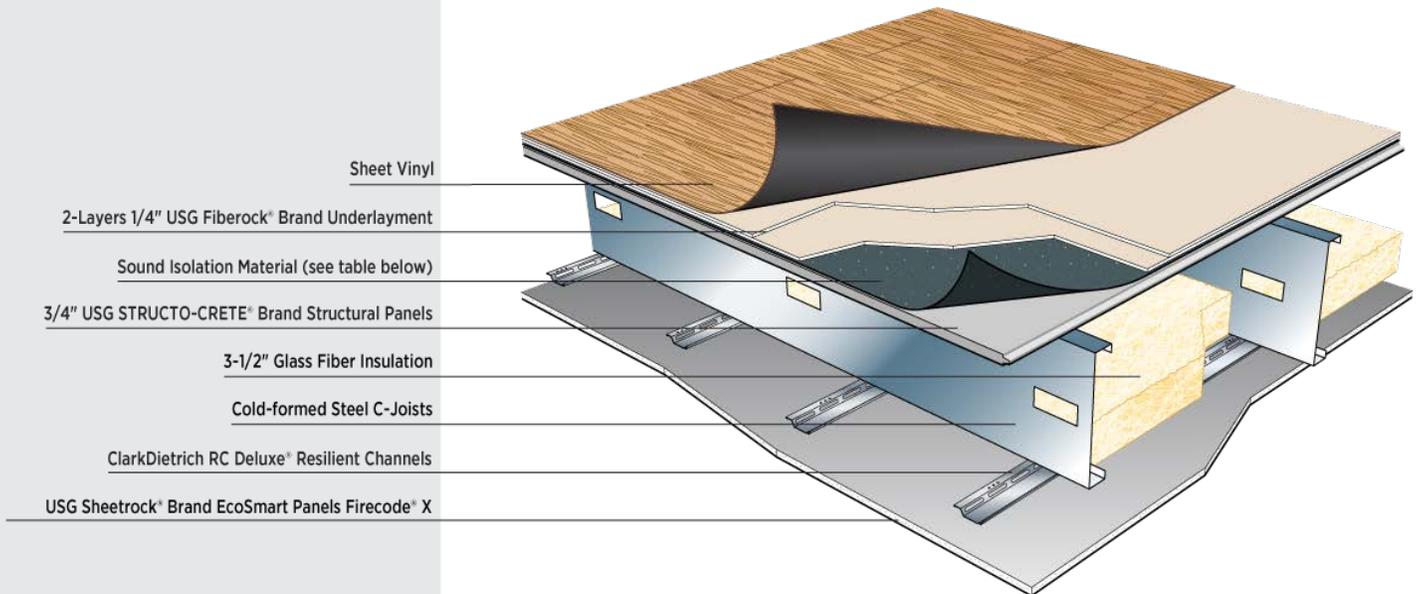
Sheet Vinyl

+Levelrock® Brand Underlayments

2-hour Fire Design

UL Fire Design H505 | GA File No. FC 1903

www.ULH505.com



- Sheet Vinyl
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- USG Sheetrock® Brand EcoSmart Panels Firecode® X

Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	57	52	J4242.23
5/16" Kinetics Soundmatt	58	53	J4242.31

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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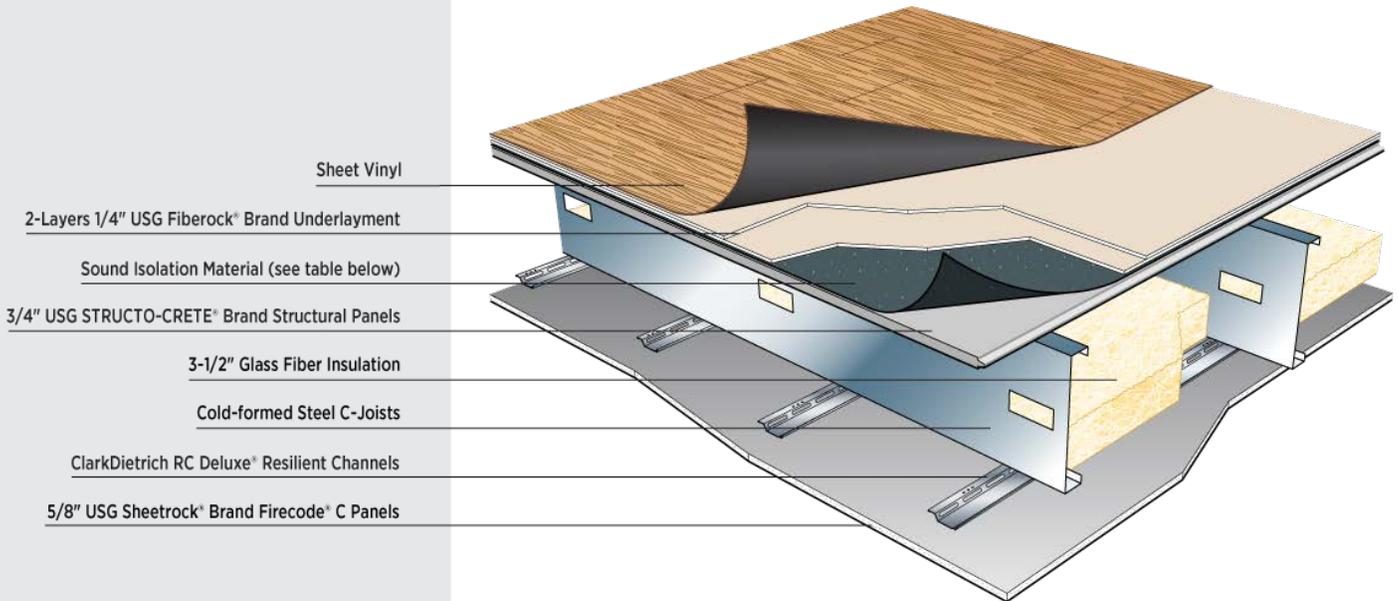
Sheet Vinyl

+Fiberock® Brand Underlayment

1.5-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

www.ULG556.com



Sheet Vinyl

2-Layers 1/4" USG Fiberock® Brand Underlayment

Sound Isolation Material (see table below)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand Firecode® C Panels

Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	58	53	J4242.04
5/16" Kinetics Soundmatt	59	53	J4242.12

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

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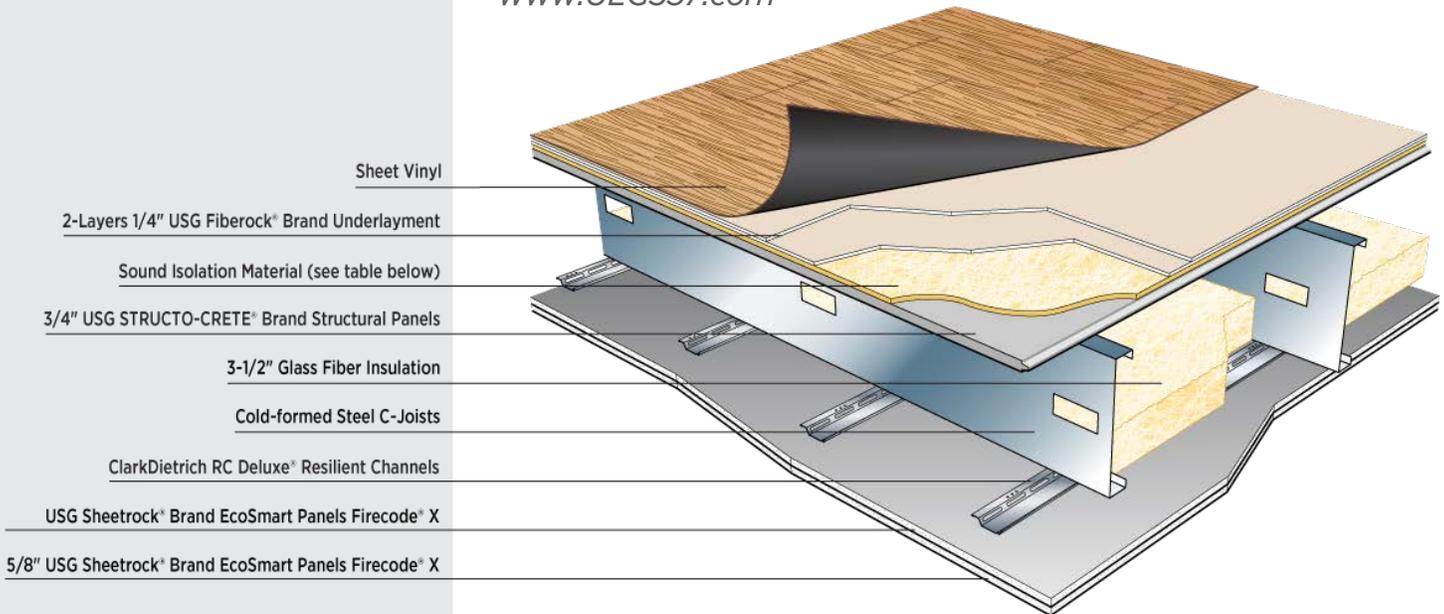
Sheet Vinyl

+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design G557

www.ULG557.com



- Sheet Vinyl
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	58	54	J4242.62
5/16" Kinetics Soundmatt	59	56	J4242.70

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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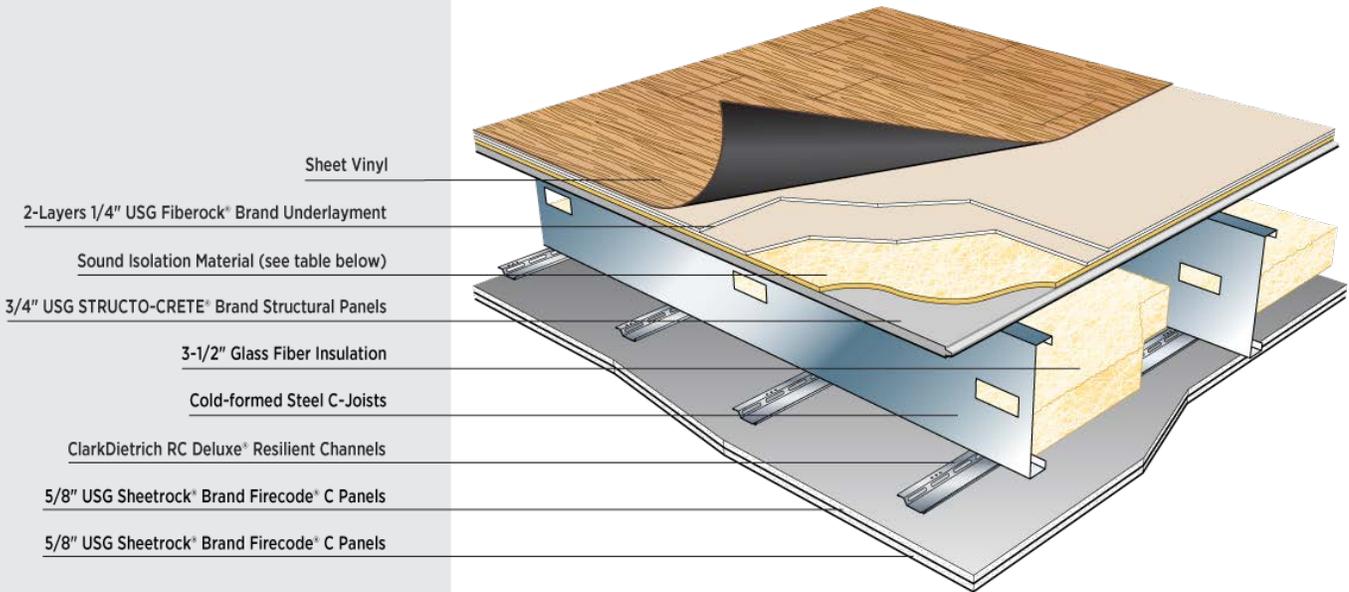
Sheet Vinyl

+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design G557

www.ULG557.com



- Sheet Vinyl
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand Firecode® C Panels
- 5/8" USG Sheetrock® Brand Firecode® C Panels

Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	60	57	J4242.43
5/16" Kinetics Soundmatt	61	58	J4242.51

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)** . Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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Sheet Vinyl

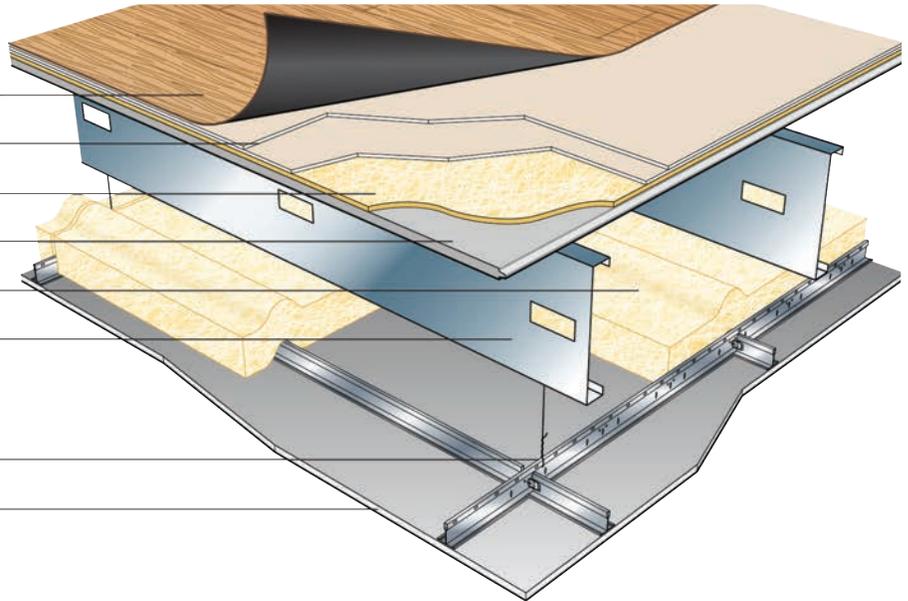
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1.5-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

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- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	60	56	i8399.37

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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Sheet Vinyl

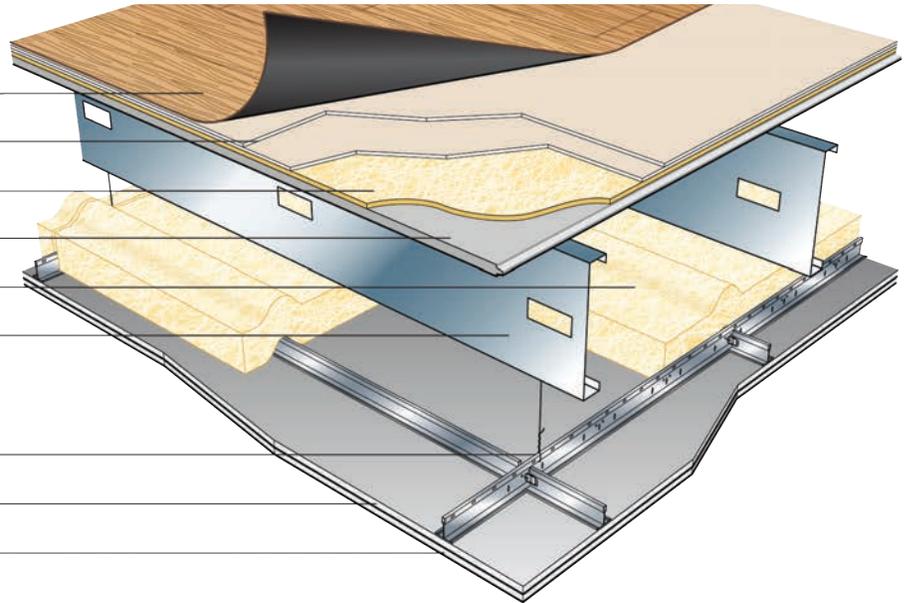
+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design G557

www.ULG557.com

- Sheet Vinyl
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	60	57	i6510.24

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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Sheet Vinyl

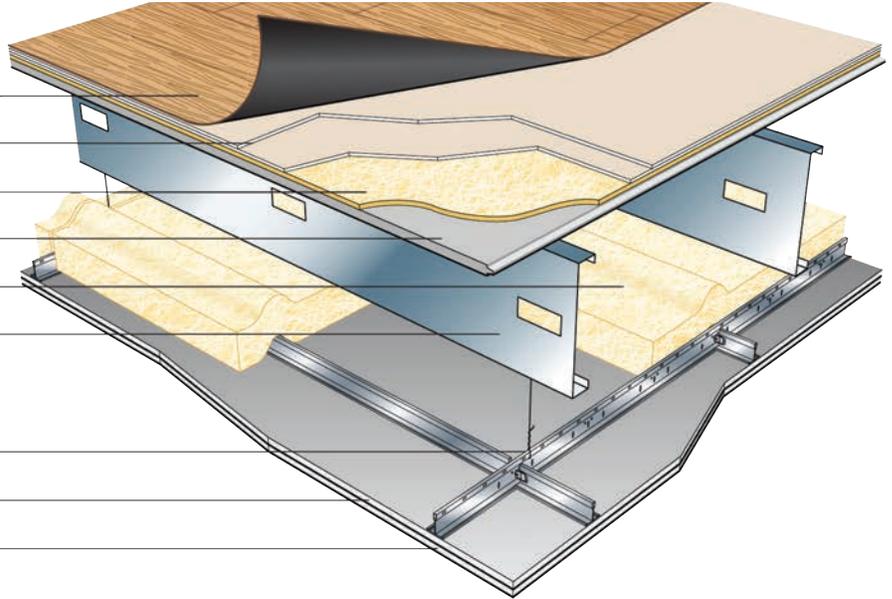
+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design G557

www.ULG557.com

- Sheet Vinyl
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand Firecode® C Panels
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	61	59	i9258.06

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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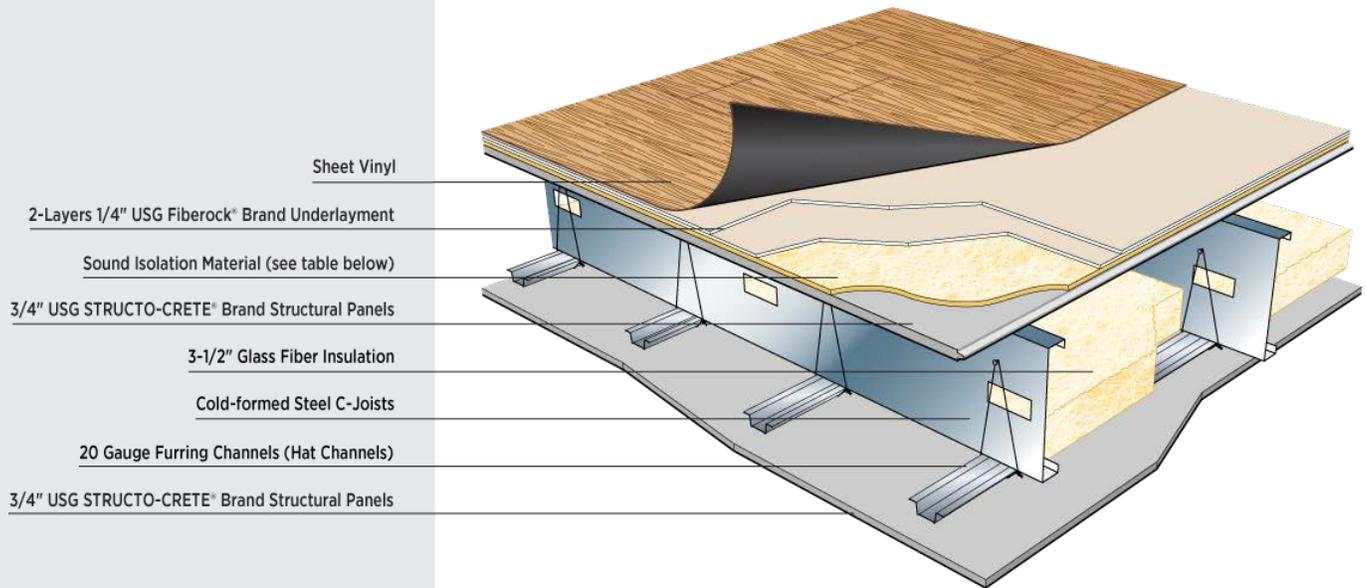
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Sheet Vinyl +Fiberock® Brand Underlayment 2-hour Fire Design UL Fire Design G602

www.ULG602.com



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	56	53	i9043.31
PLITEQ GenieMat® RST05	58	53	i9043.47
5/16" Kinetics Soundmatt	60	54	i9043.39

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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Sheet Vinyl with Backer Pad

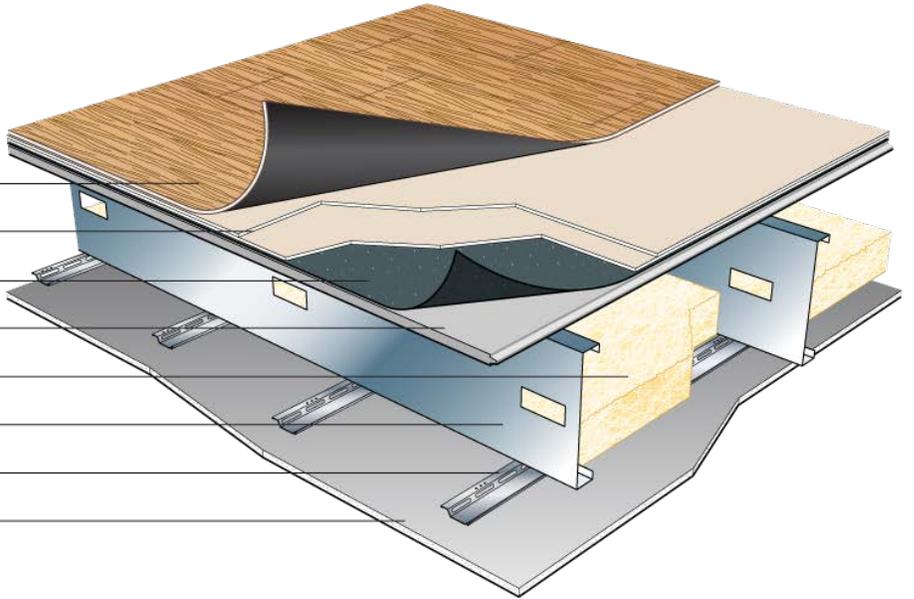
+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design H505 | GA File No. FC 1903

www.ULH505.com

- Sheet Vinyl with Padded Backer
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	57	54	J4242.24
PLITEQ GenieMat® RST05	58	55	J4242.39
5/16" Kinetics Soundmatt	58	54	J4242.32

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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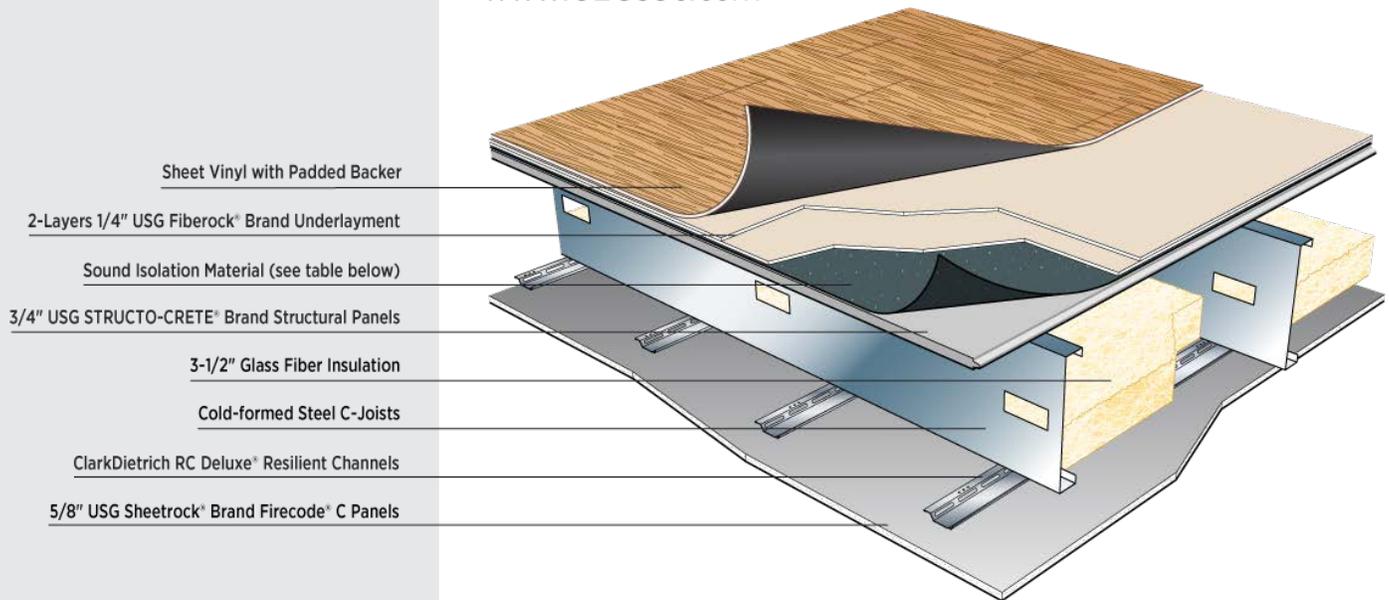
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Sheet Vinyl with Padded Backer +Fiberock® Brand Underlayment

1.5-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

www.ULG556.com



Sheet Vinyl with Padded Backer

2-Layers 1/4" USG Fiberock® Brand Underlayment

Sound Isolation Material (see table below)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand Firecode® C Panels

Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	57	54	J4242.05
5/16" Kinetics Soundmatt	59	55	J4242.13

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

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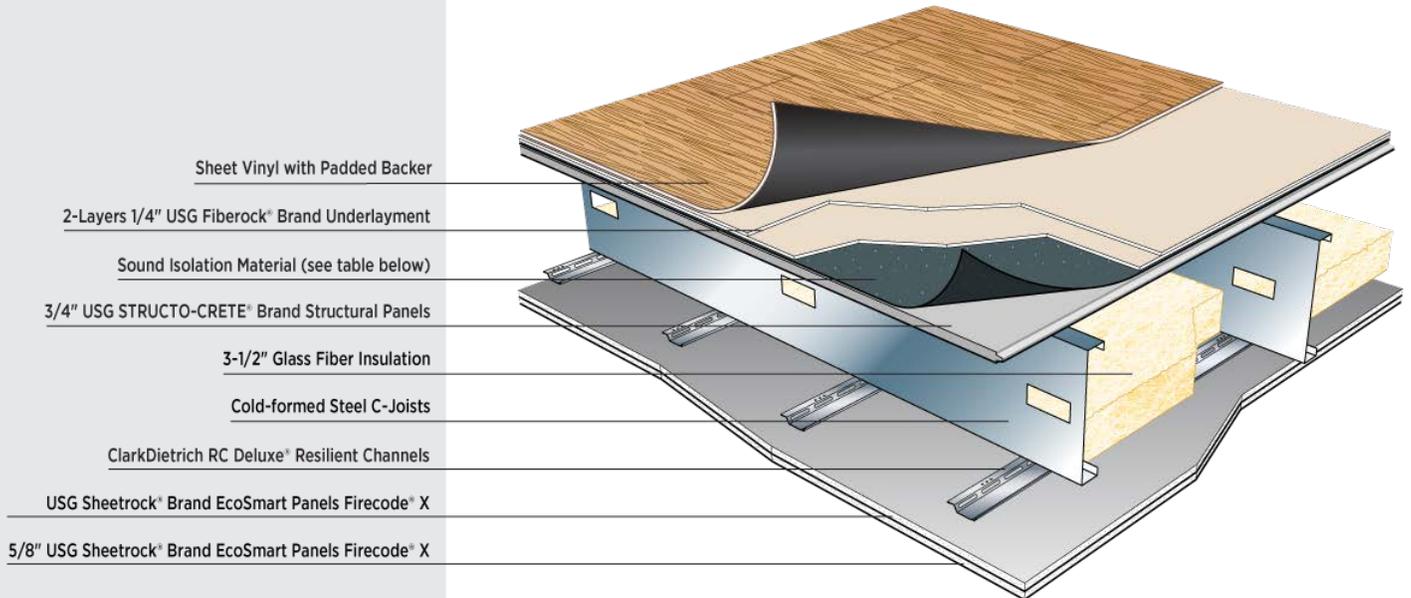
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Sheet Vinyl with Padded Backer +Fiberock® Brand Underlayment 2-hour Fire Design UL Fire Design G557

www.ULG557.com



- Sheet Vinyl with Padded Backer
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	58	57	J4242.63
5/16" Kinetics Soundmatt	59	57	J4242.71

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12"o.c. Face layer fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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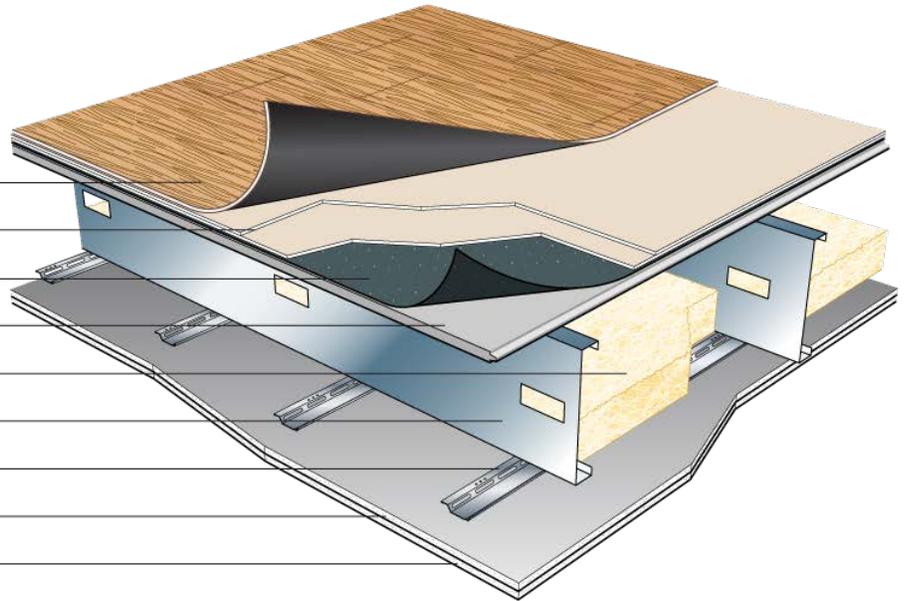
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+Fiberock® Brand Underlayment

2-hour Fire Design UL Fire Design G557

www.ULG557.com

- Sheet Vinyl with Padded Backer
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand Firecode® C Panels
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	59	58	J4242.44
5/16" Kinetics Soundmatt	61	58	J4242.52

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil.(16 gauge), spaced max. 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to resilient/furring channels with screws spaced 12"o.c. Face layer fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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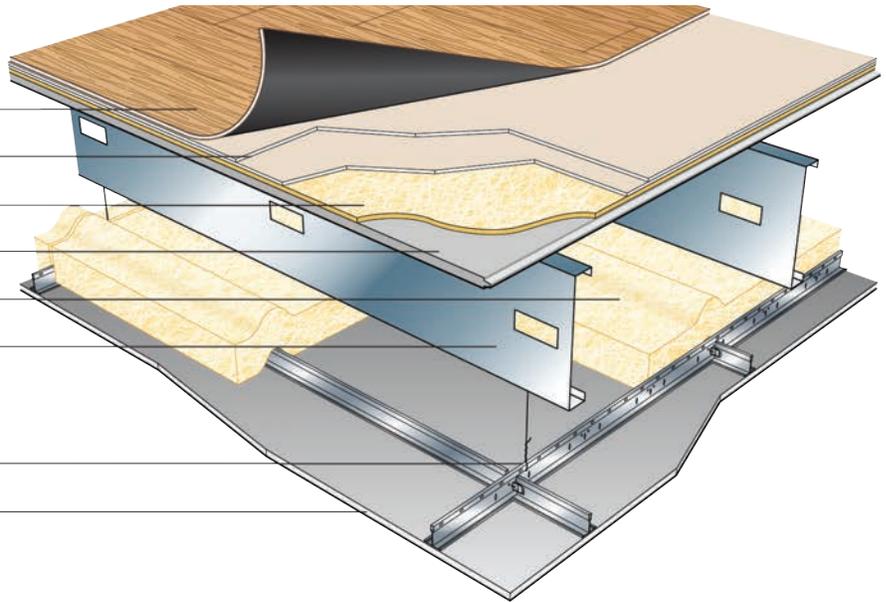
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2-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

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- Sheet Vinyl with Padded Backer
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	60	56	i8399.36

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

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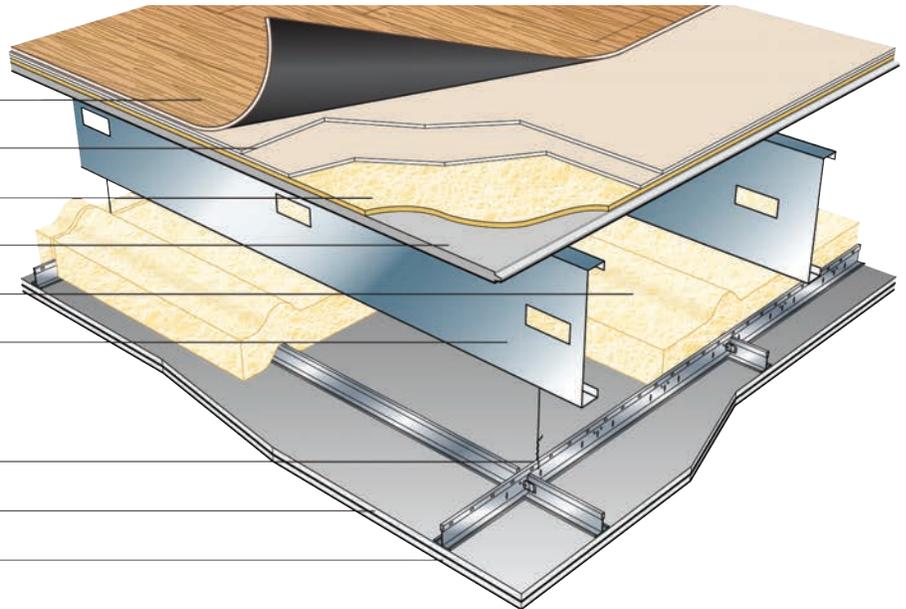
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Sheet Vinyl with Padded Backer +Fiberock® Brand Underlayment 2-hour Fire Design UL Fire Design G557

www.ULG557.com

- Sheet Vinyl with Padded Backer
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	61	58	i6510.25

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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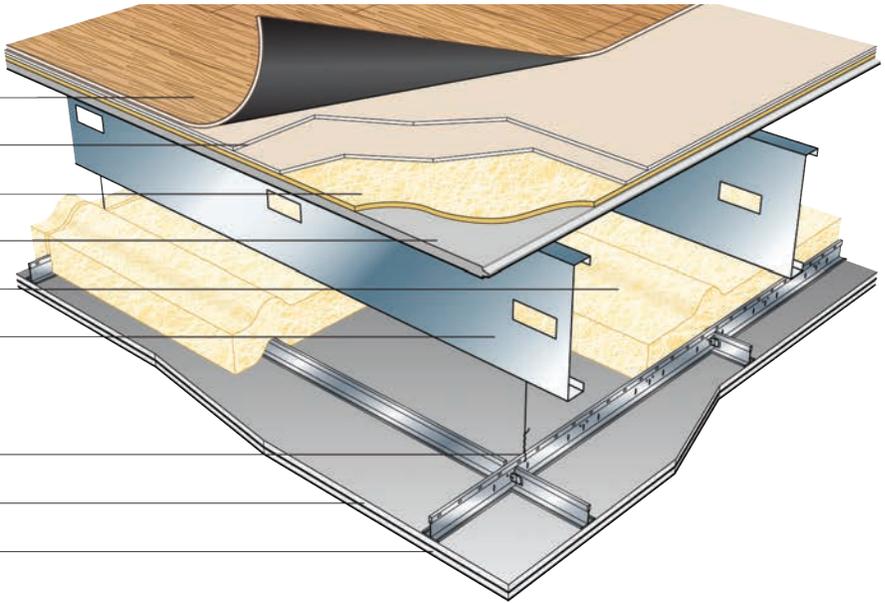
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Sheet Vinyl with Padded Backer +Fiberock® Brand Underlayment 2-hour Fire Design UL Fire Design G557

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- Sheet Vinyl with Padded Backer
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand Firecode® C Panels
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	62	59	i9258.05

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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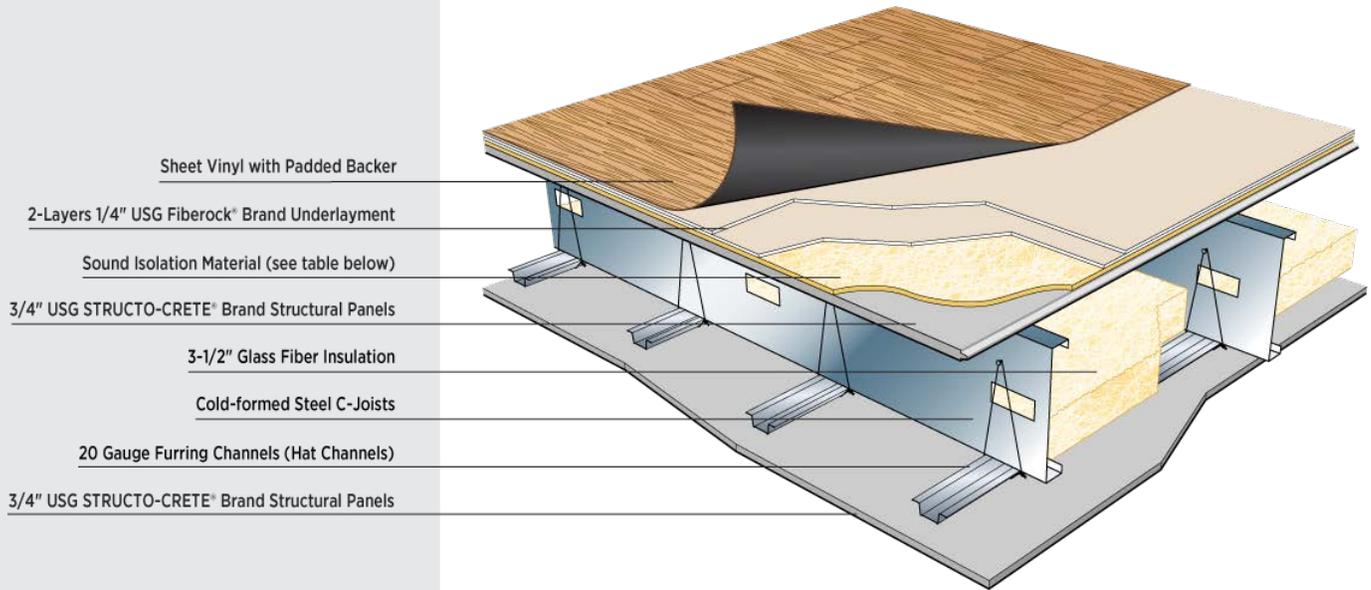
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Sheet Vinyl with Padded Backer +Fiberock® Brand Underlayment 2-hour Fire Design UL Fire Design G602

www.ULG602.com



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	57	54	i9043.32
PLITEQ GenieMat® RST05	58	55	i9043.48
5/16" Kinetics Soundmatt	59	53	i9043.40

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, min. 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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Vinyl Composite Tile (VCT)

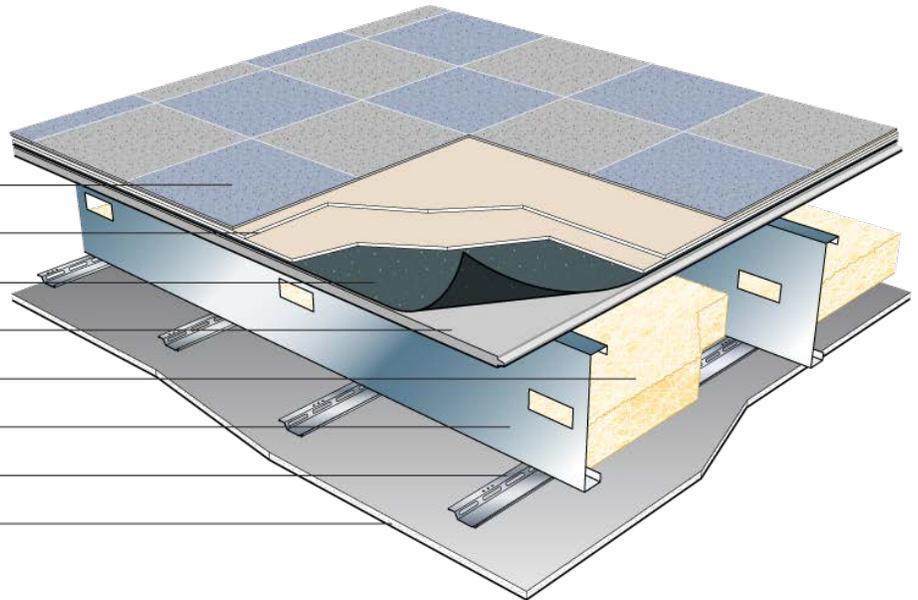
+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design H505 | GA File No. FC 1903

www.ULH505.com

- Vinyl Composite Tile (VCT)
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- USG Sheetrock® Brand EcoSmart Panels Firecode® X



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	57	50	J4242.26
5/16" Kinetics Soundmatt	58	53	J4242.34

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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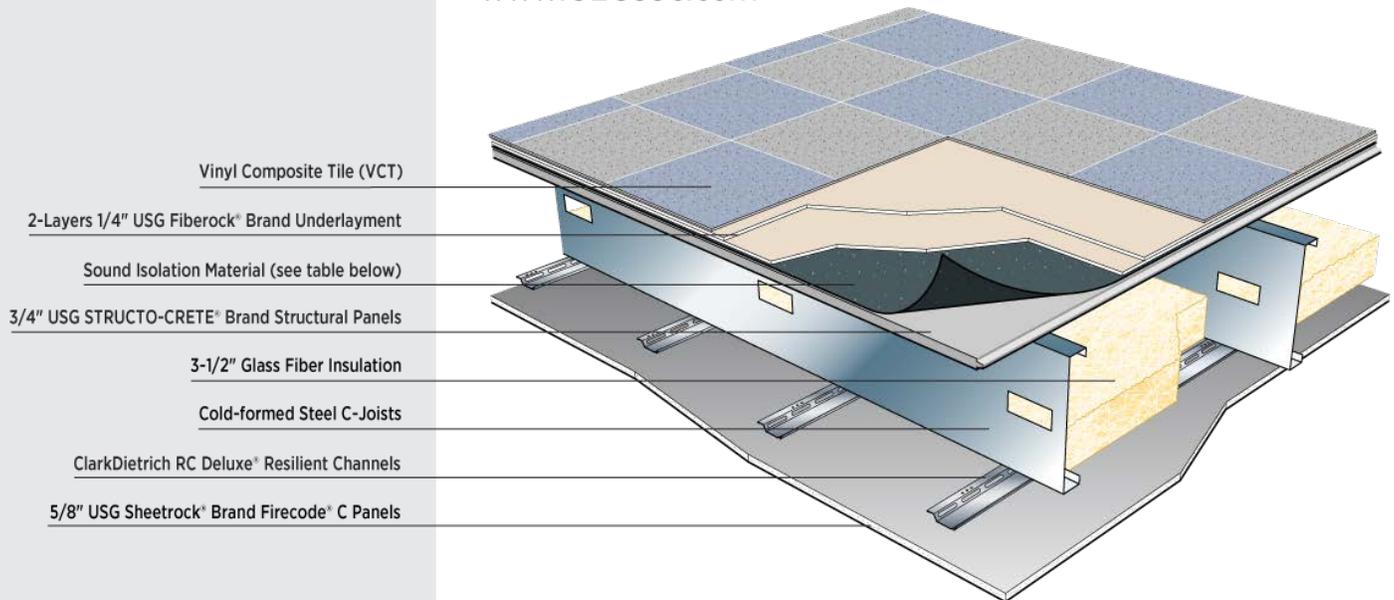
Vinyl Composite Tile (VCT)

+Fiberock® Brand Underlayment

1.5-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

www.ULG556.com



Vinyl Composite Tile (VCT)

2-Layers 1/4" USG Fiberock® Brand Underlayment

Sound Isolation Material (see table below)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand Firecode® C Panels

Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	58	52	J4242.07
5/16" Kinetics Soundmatt	60	53	J4242.15

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

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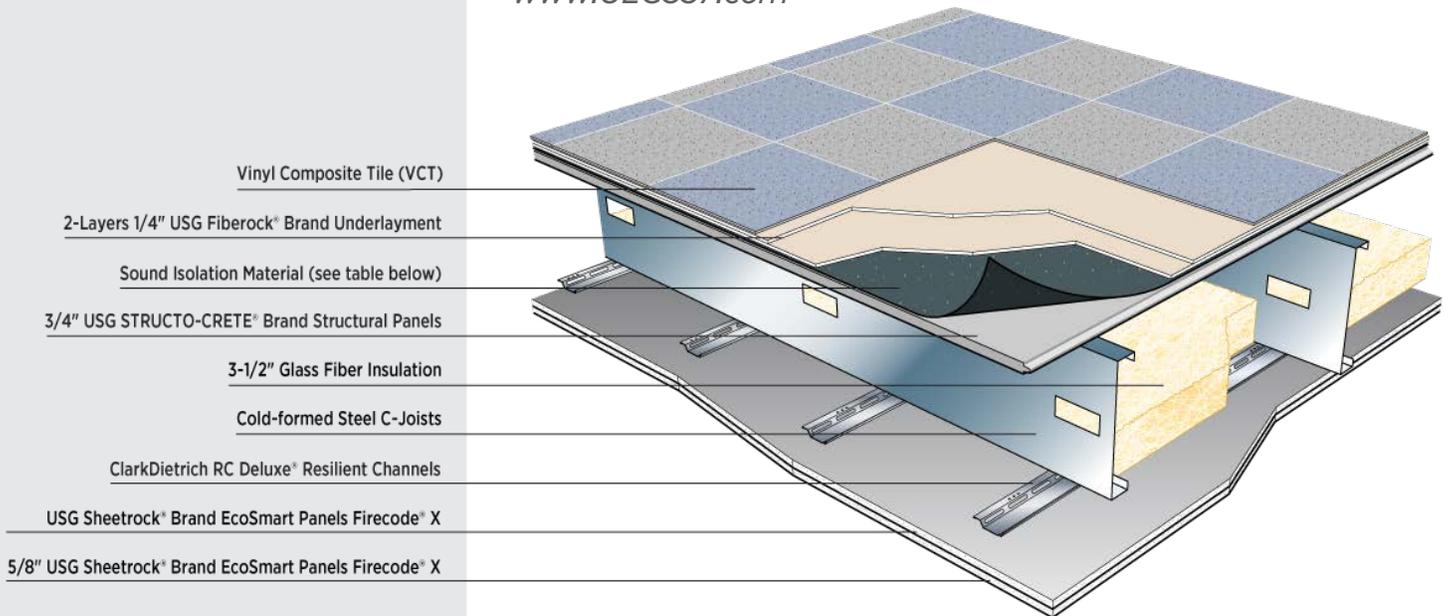
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Vinyl Composite Tile (VCT)

+Fiberock® Brand Underlayment

2-hour Fire Design UL Fire Design G557

www.ULG557.com



Vinyl Composite Tile (VCT)

2-Layers 1/4" USG Fiberock® Brand Underlayment

Sound Isolation Material (see table below)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

USG Sheetrock® Brand EcoSmart Panels Firecode® X

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	59	53	J4242.65
5/16" Kinetics Soundmatt	59	56	J4242.73

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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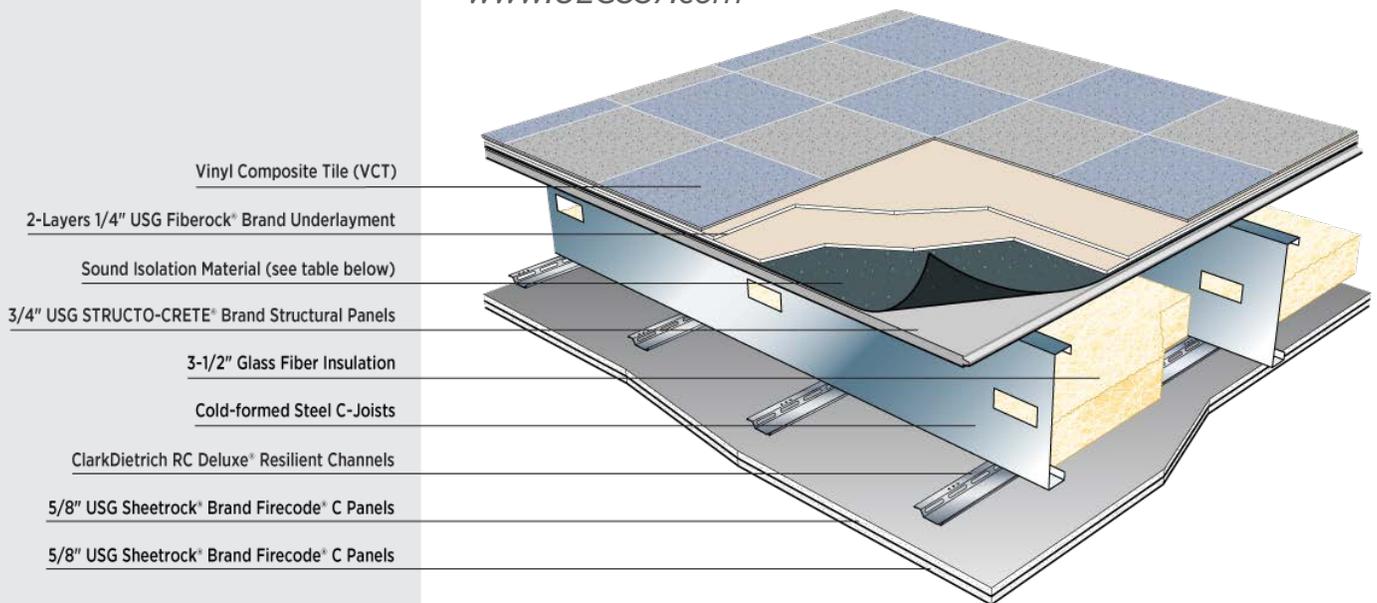
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+Fiberock® Brand Underlayment

2-hour Fire Design UL Fire Design G557

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Vinyl Composite Tile (VCT)

2-Layers 1/4" USG Fiberock® Brand Underlayment

Sound Isolation Material (see table below)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand Firecode® C Panels

5/8" USG Sheetrock® Brand Firecode® C Panels

Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	60	54	J4242.46
5/16" Kinetics Soundmatt	61	58	J4242.54

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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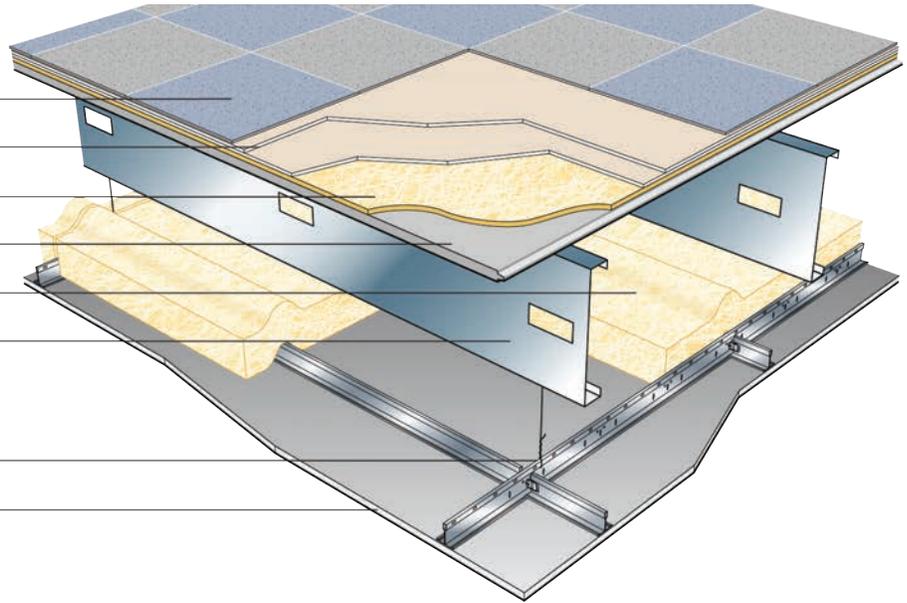
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- Vinyl Composite Tile (VCT)
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	60	58	i6510.33

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 33-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

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Vinyl Composite Tile (VCT)

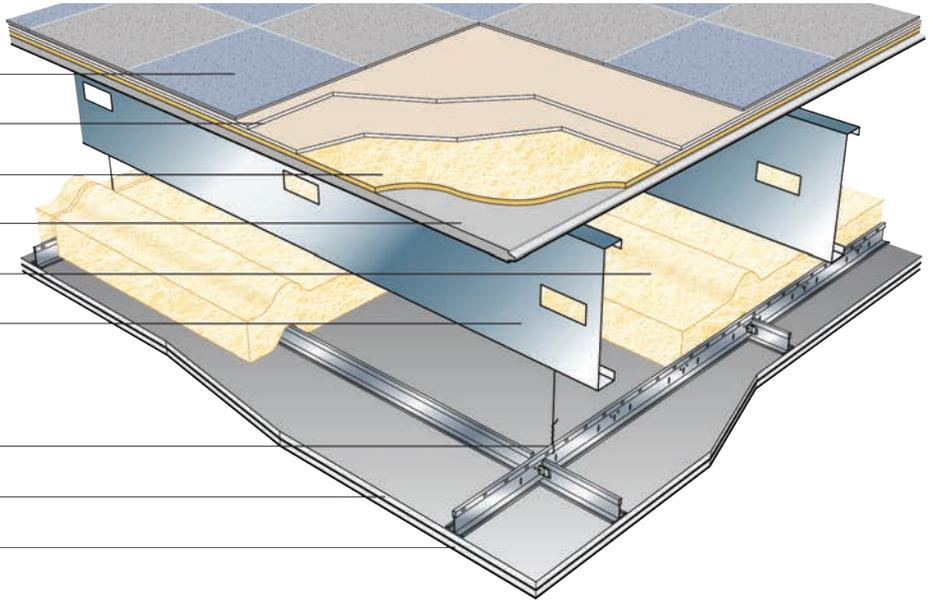
+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design G557

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- Vinyl Composite Tile (VCT)
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- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	61	59	i6510.26

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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Vinyl Composite Tile (VCT)

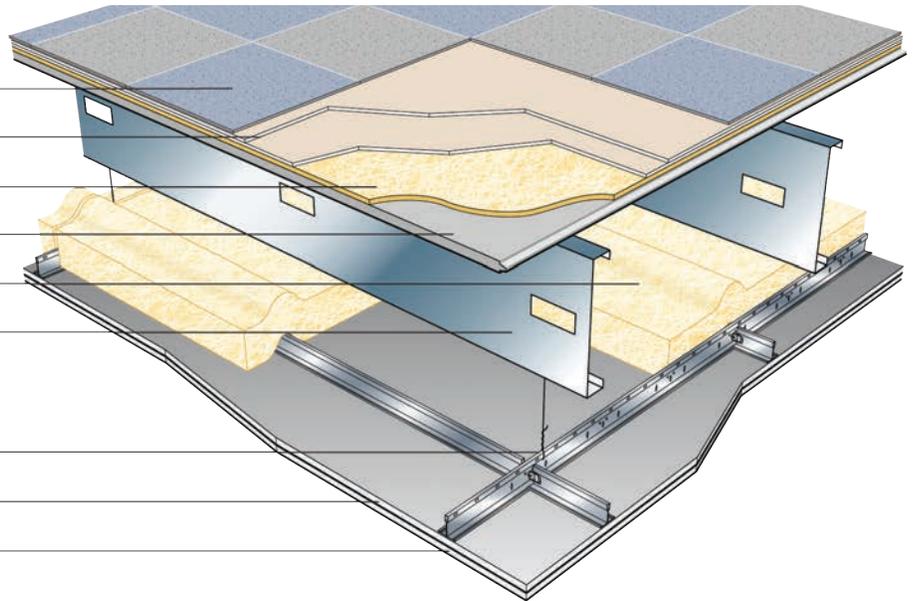
+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design G557

www.ULG557.com

- Vinyl Composite Tile (VCT)
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand Firecode® C Panels
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	62	59	i9258.07

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joist

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)** . Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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Vinyl Composite Tile (VCT)

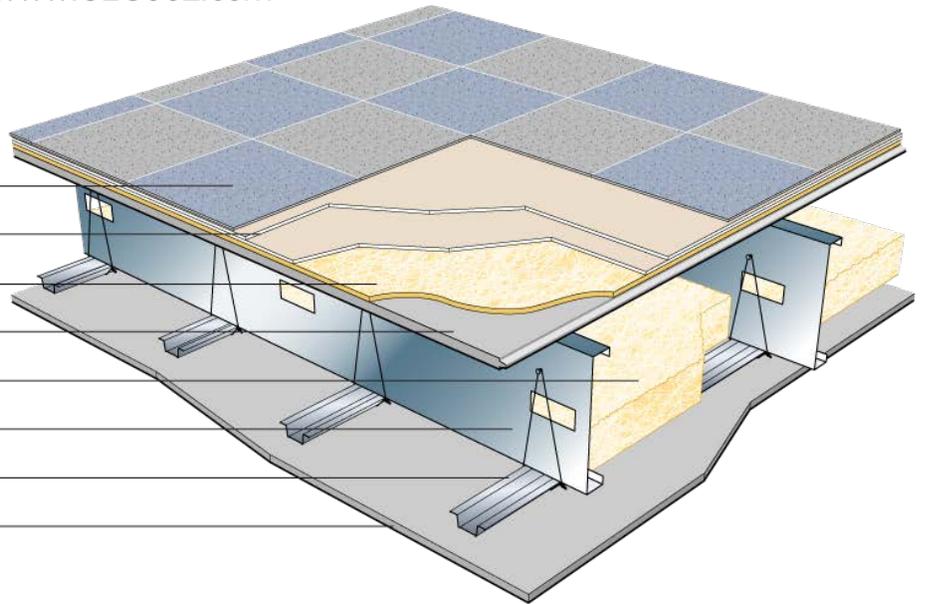
+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design G602

www.ULG602.com

- Vinyl Composite Tile (VCT)
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 20 Gauge Furring Channels (Hat Channels)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	57	53	i9043.34
PLITEQ GenieMat® RST05	58	53	i9043.50
5/16" Kinetics Soundmatt	60	55	i9043.42

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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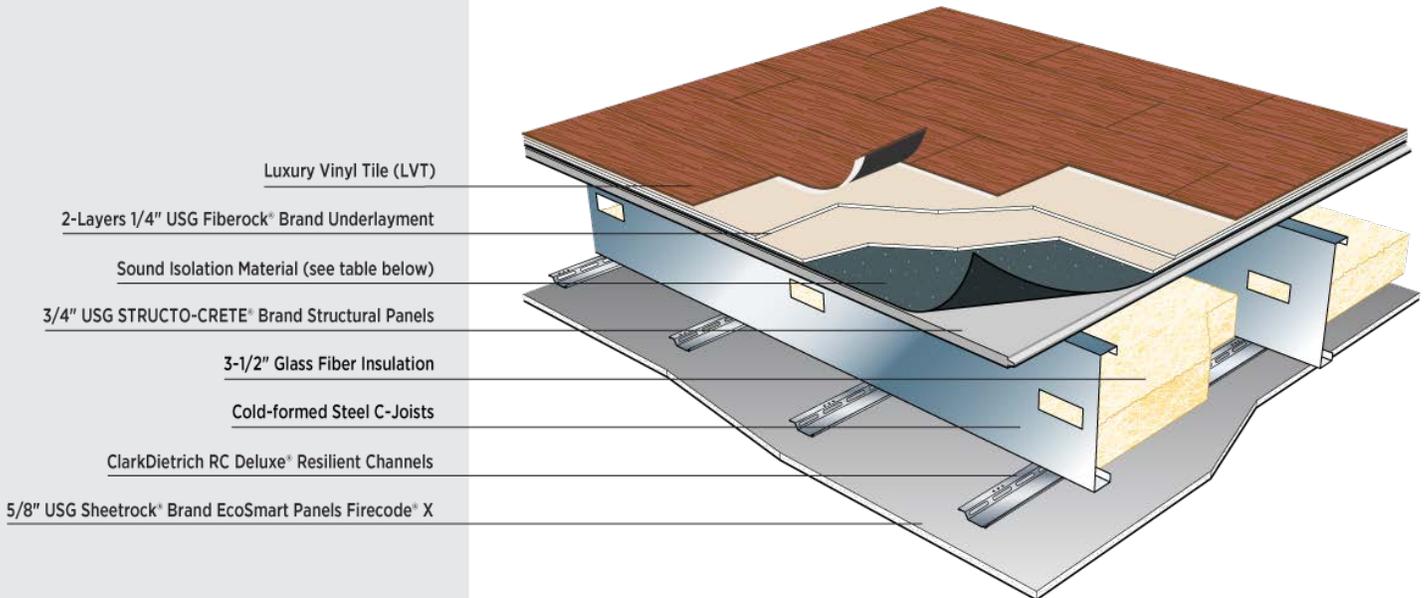
Luxury Vinyl Tile (LVT)

+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design H505 | GA File No. FC 1903

www.ULH505.com



Luxury Vinyl Tile (LVT)

2-Layers 1/4" USG Fiberock® Brand Underlayment

Sound Isolation Material (see table below)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	57	50	J4242.25
5/16" Kinetics Soundmatt	58	53	J4242.33

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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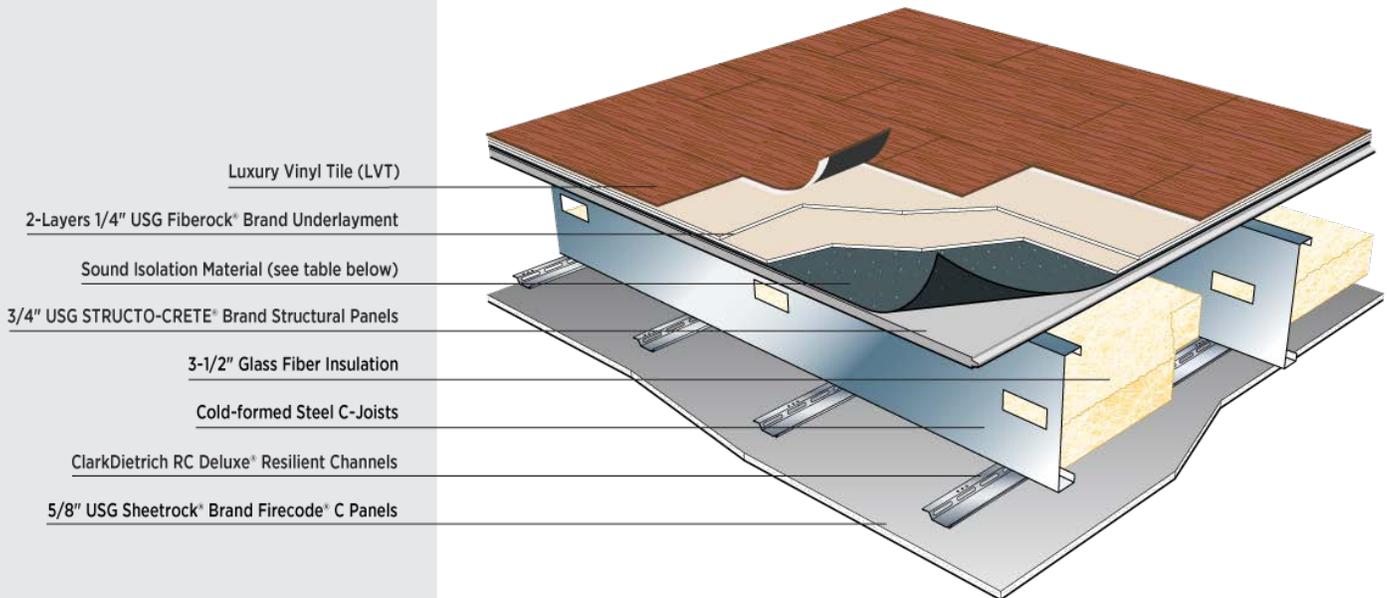
Luxury Vinyl Tile (LVT)

+Fiberock® Brand Underlayment

1.5-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

www.ULG556.com



Luxury Vinyl Tile (LVT)

2-Layers 1/4" USG Fiberock® Brand Underlayment

Sound Isolation Material (see table below)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand Firecode® C Panels

Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	58	52	J4242.06
5/16" Kinetics Soundmatt	60	53	J4242.14

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

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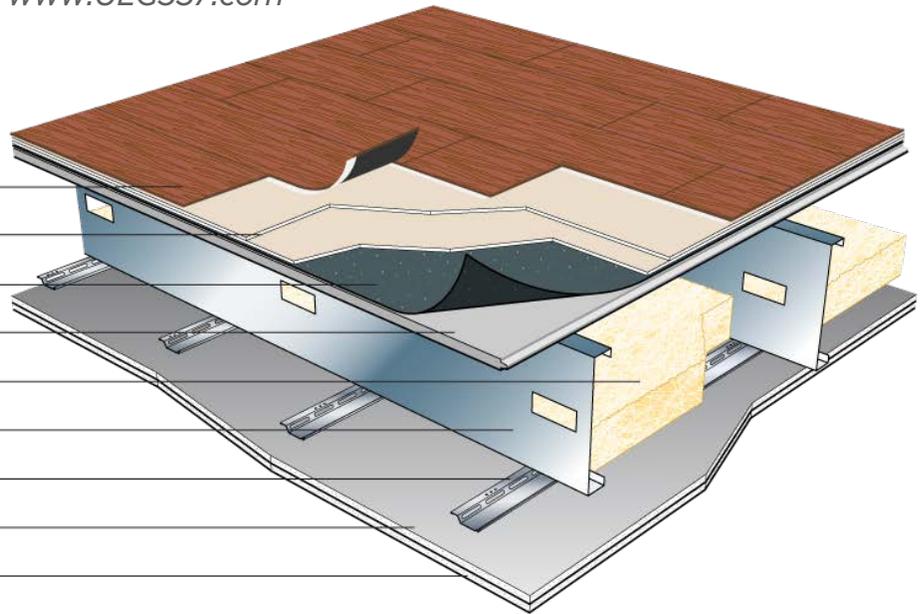
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Luxury Vinyl Tile (LVT) +Fiberock® Brand Underlayment 2-hour Fire Design UL Fire Design G557 www.ULG557.com



- Luxury Vinyl Tile (LVT)
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	59	53	J4242.64
5/16" Kinetics Soundmatt	59	56	J4242.72

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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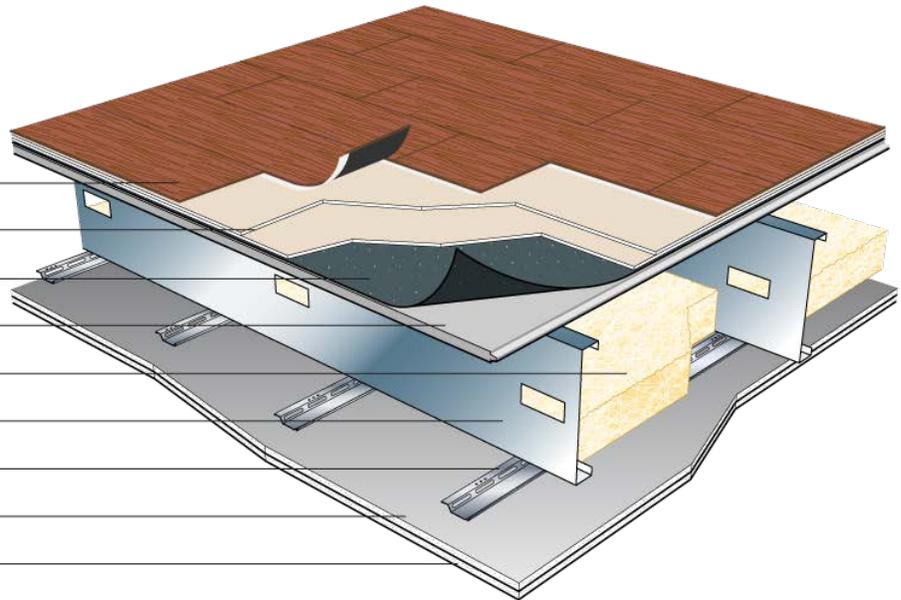
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- Luxury Vinyl Tile (LVT)
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand Firecode® C Panels
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	60	55	J4242.45
5/16" Kinetics Soundmatt	61	57	J4242.53

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE®** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to resilient/furring channels with screws spaced 12"o.c. Face layer fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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Luxury Vinyl Tile (LVT)

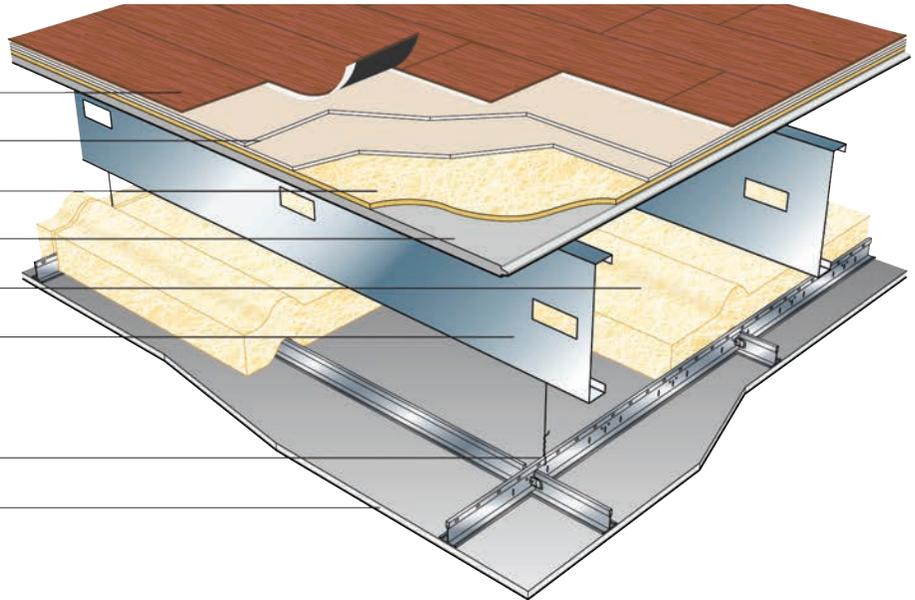
+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

www.ULG556.com

- Luxury Vinyl Tile (LVT)
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	59	56	i6510.34

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

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Luxury Vinyl Tile (LVT)

2-Layers 1/4" USG Fiberock® Brand Underlayment

5/16" Kinetics Soundmatt Noise Control Floor Underlayment

3/4" USG STRUCTO-CRETE® Brand Structural Panels

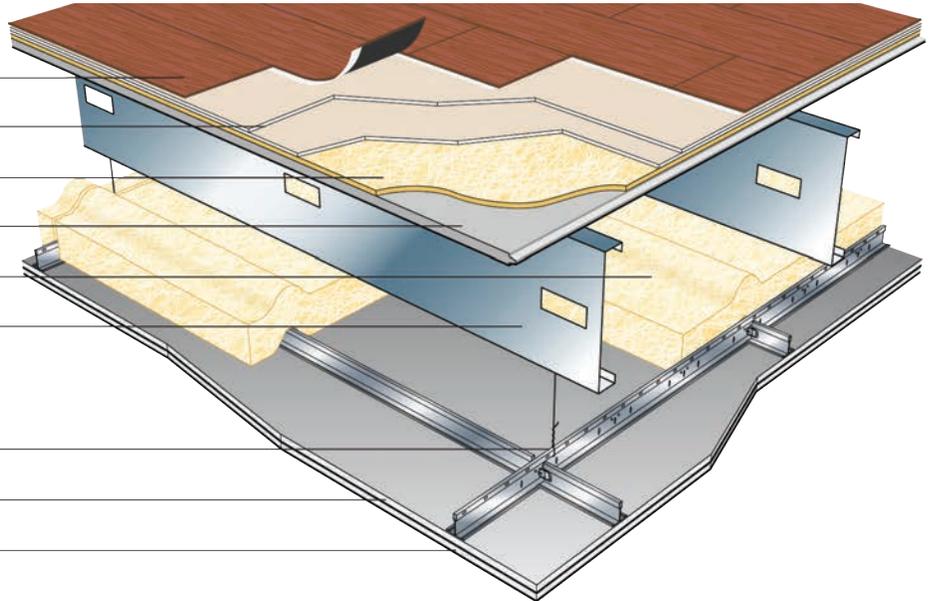
3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

6" USG Drywall Suspension System

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	61	58	i6510.27

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
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- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers of 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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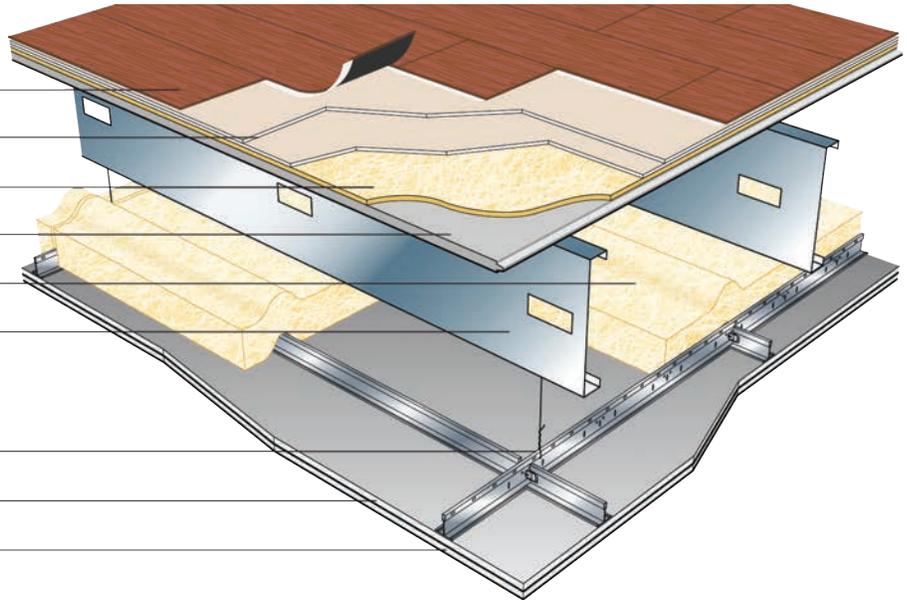
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Luxury Vinyl Tile (LVT) +Fiberock® Brand Underlayment 2-hour Fire Design UL Fire Design G557 www.ULG557.com

- Luxury Vinyl Tile (LVT)
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand Firecode® C Panels
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	61	59	i9258.04

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joist

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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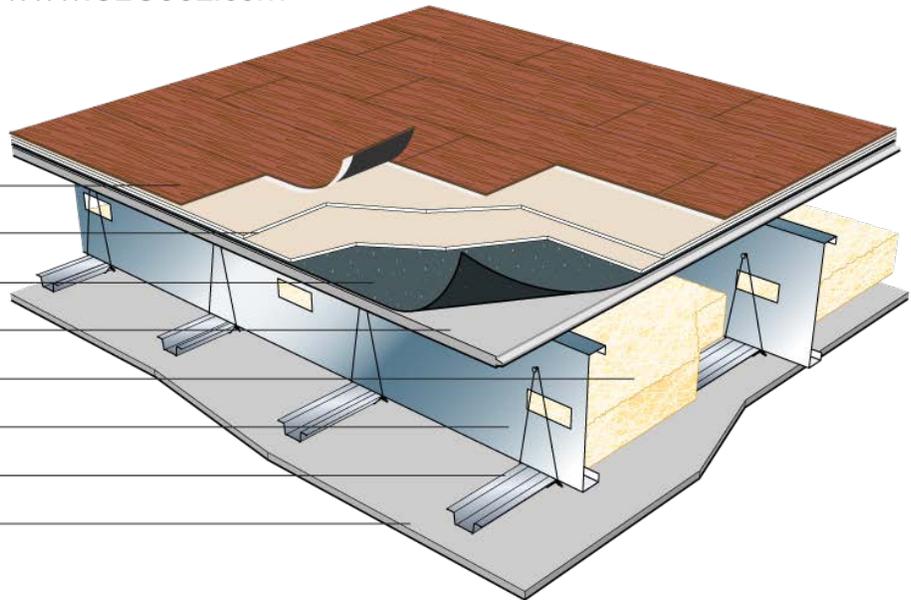
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Luxury Vinyl Tile (LVT) +Fiberock® Brand Underlayment 2-hour Fire Design UL Fire Design G602 www.ULG602.com

- Luxury Vinyl Tile (LVT)
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 20 Gauge Furring Channels (Hat Channels)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	57	52	i9043.33
PLITEQ GenieMat® RST05	58	52	i9043.49
5/16" Kinetics Soundmatt	60	55	i9043.41

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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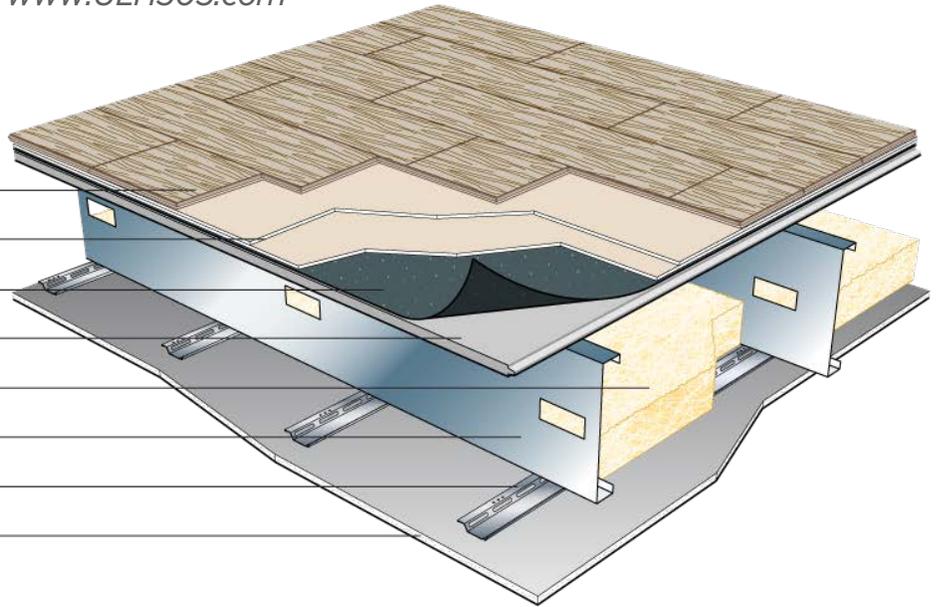
+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design H505 | GA File No. FC 1903

www.ULH505.com

- Laminate
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	58	50	J4242.30
5/16" Kinetics Soundmatt	59	51	J4242.38

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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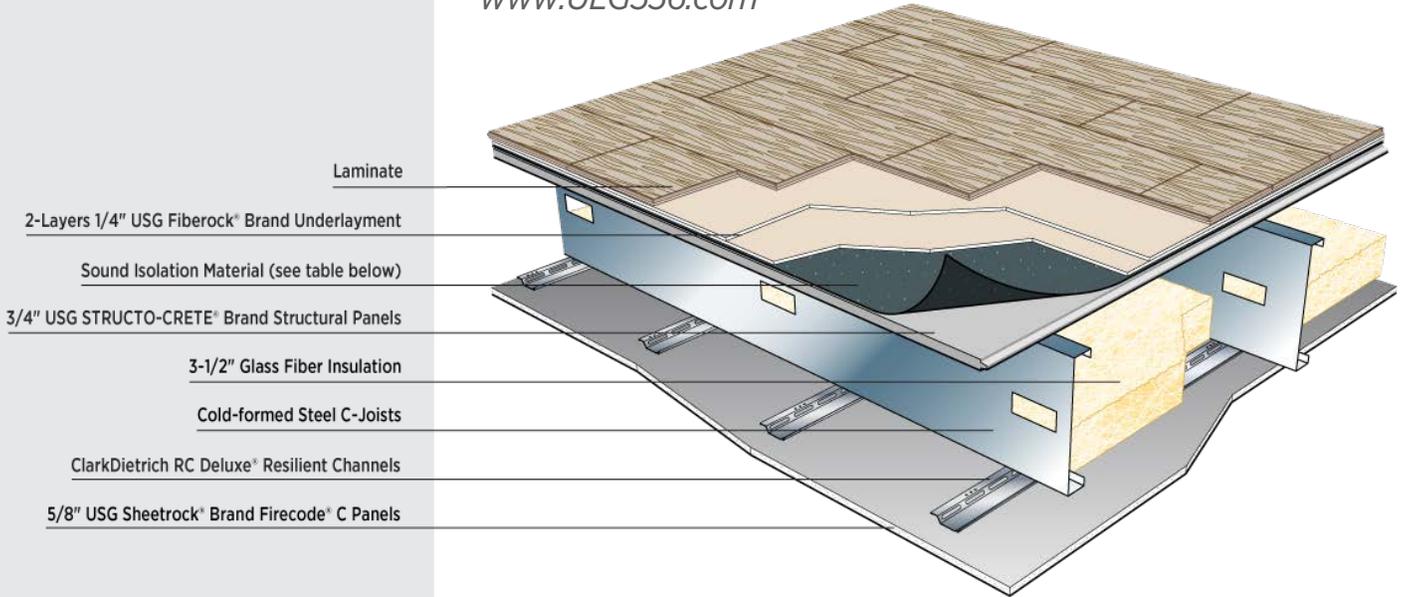
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+Fiberock® Brand Underlayment

1.5-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

www.ULG556.com



Laminate

2-Layers 1/4" USG Fiberock® Brand Underlayment

Sound Isolation Material (see table below)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand Firecode® C Panels

Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	59	54	J4242.11
5/16" Kinetics Soundmatt	59	53	J4242.19

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

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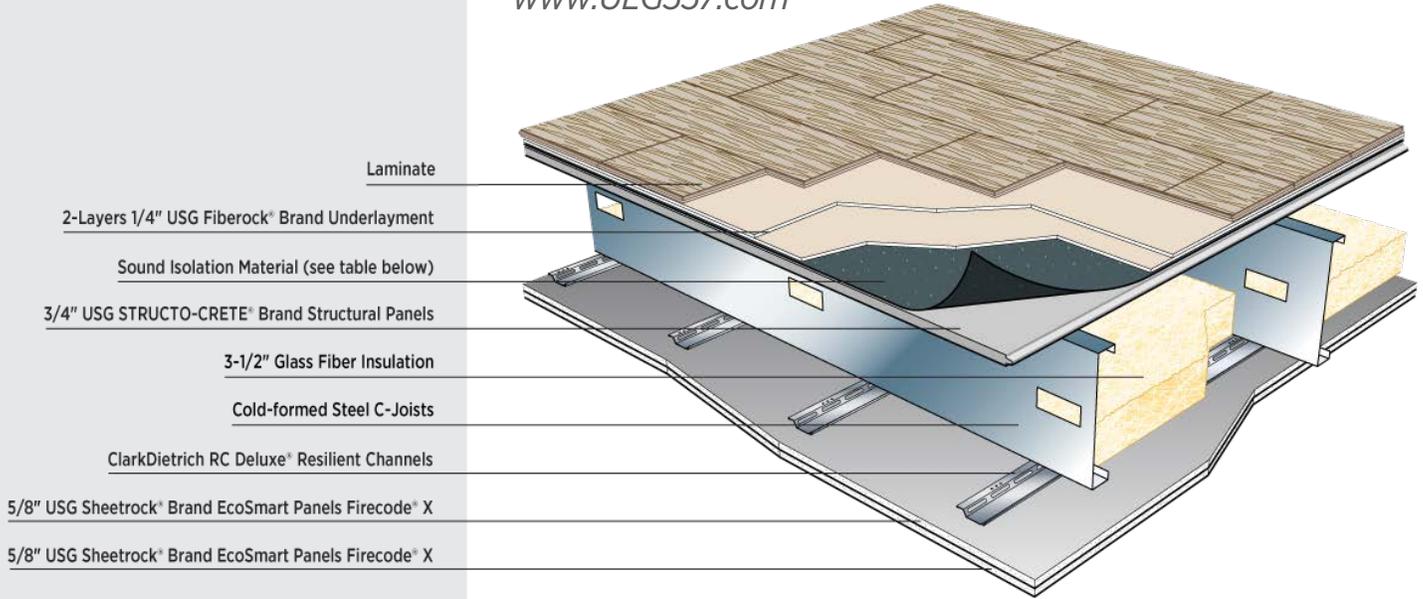
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+Fiberock® Brand Underlayment

2-hour Fire Design UL Fire Design G557

www.ULG557.com



Laminate

2-Layers 1/4" USG Fiberock® Brand Underlayment

Sound Isolation Material (see table below)

3/4" USG STRUCTO-CRETE® Brand Structural Panels

3-1/2" Glass Fiber Insulation

Cold-formed Steel C-Joists

ClarkDietrich RC Deluxe® Resilient Channels

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X

Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	58	53	J4242.69
5/16" Kinetics Soundmatt	61	55	J4242.77

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12" o.c. Face layer fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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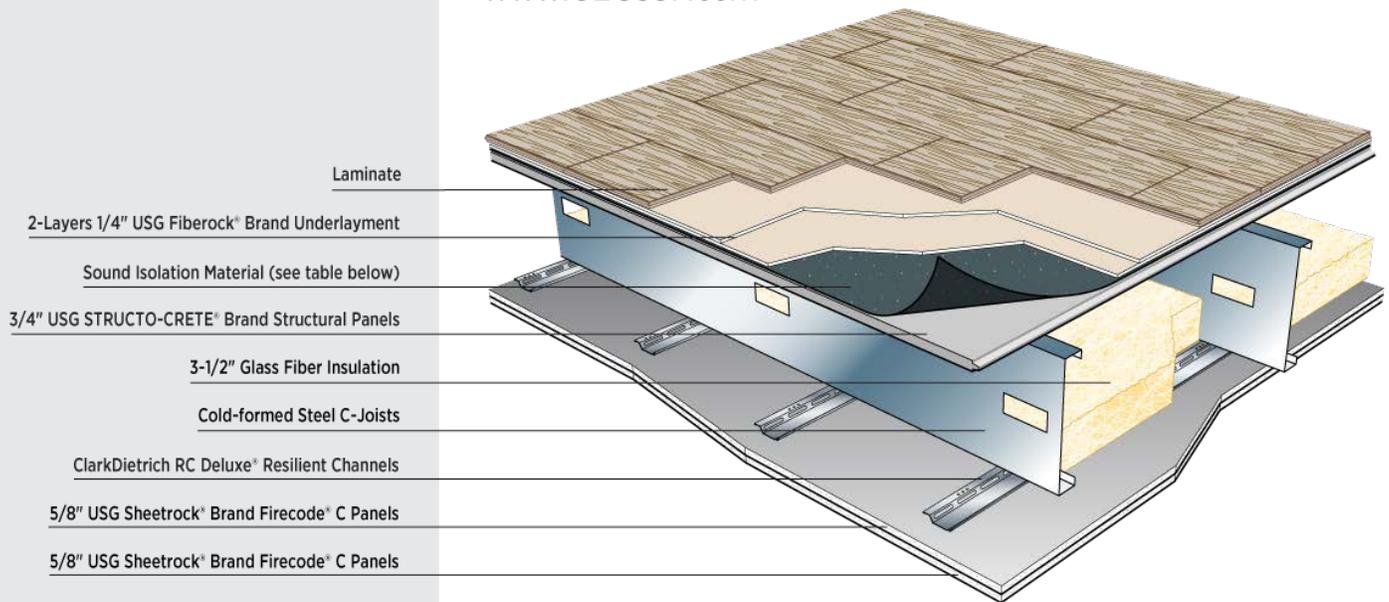
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2-hour Fire Design UL Fire Design G557

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Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	60	55	J4242.50
5/16" Kinetics Soundmatt	61	57	J4242.58

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to resilient/furring channels with screws spaced 12"o.c. Face layer fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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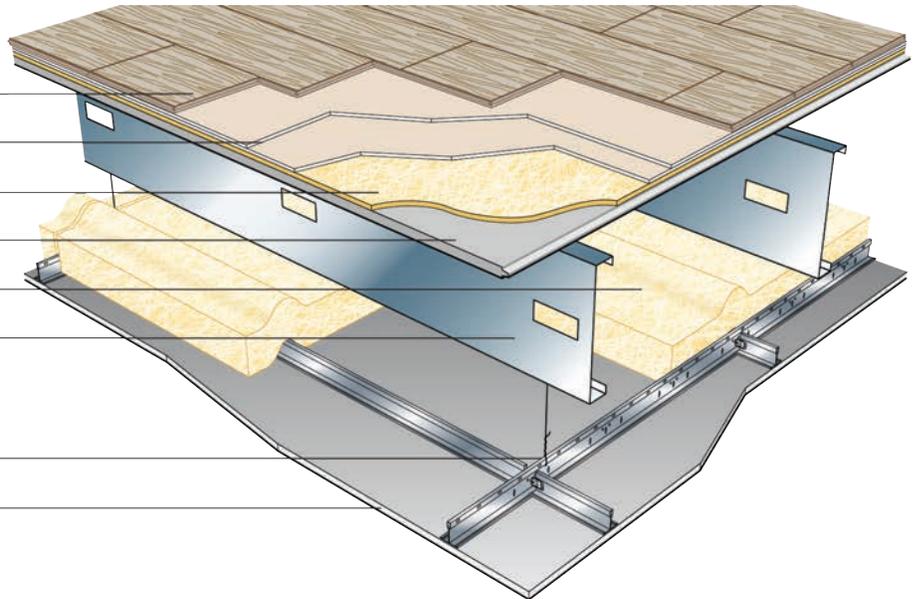
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- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	60	52	i8399.38

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

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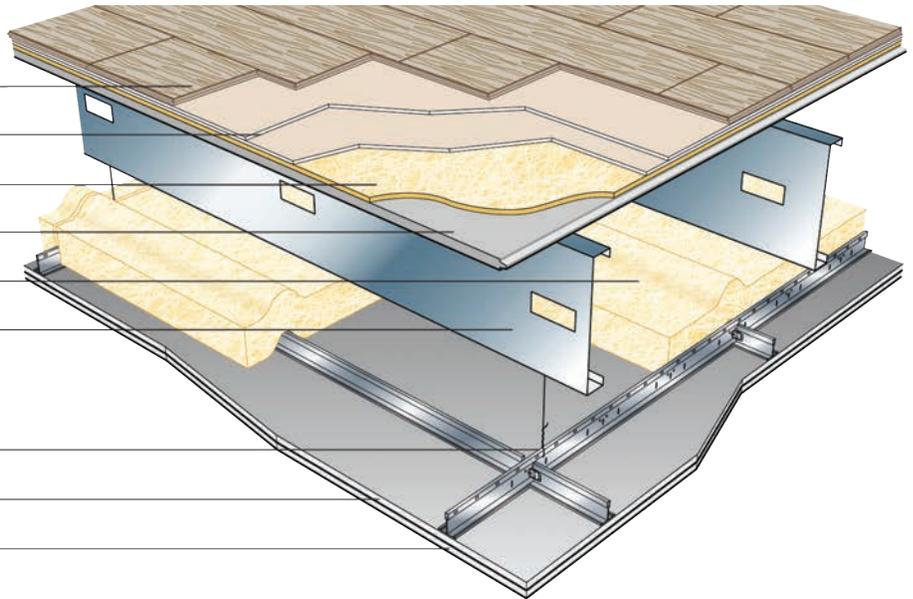
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- Laminate
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- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand Firecode® C Panels
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	61	54	i9258.09

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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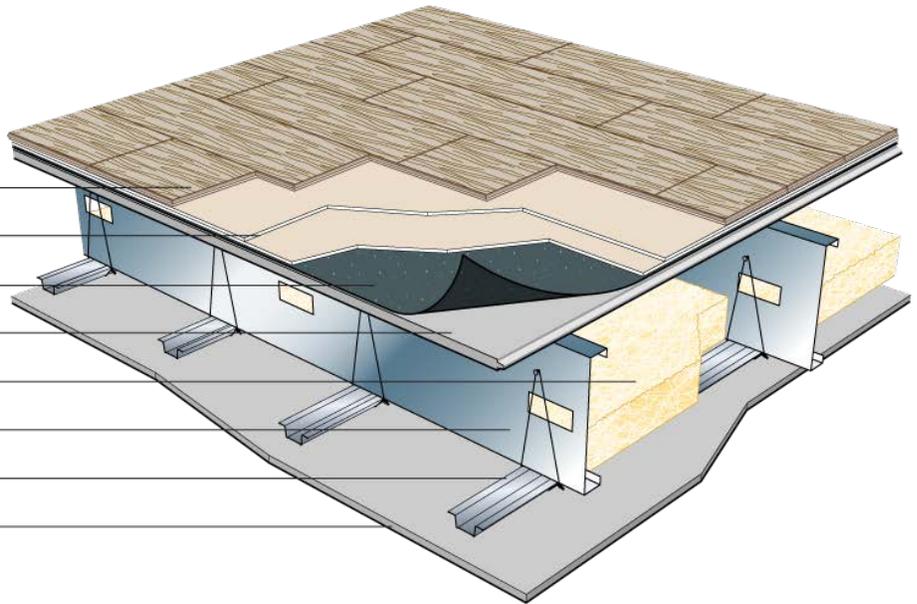
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+Fiberock® Brand Underlayment

2-hour Fire Design UL Fire Design G602

www.ULG602.com

- Laminate
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 20 Gauge Furring Channels (Hat Channels)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	58	55	i9043.38
PLITEQ GenieMat® RST05	59	56	i9043.54
5/16" Kinetics Soundmatt	60	53	i9043.46

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16"o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8"o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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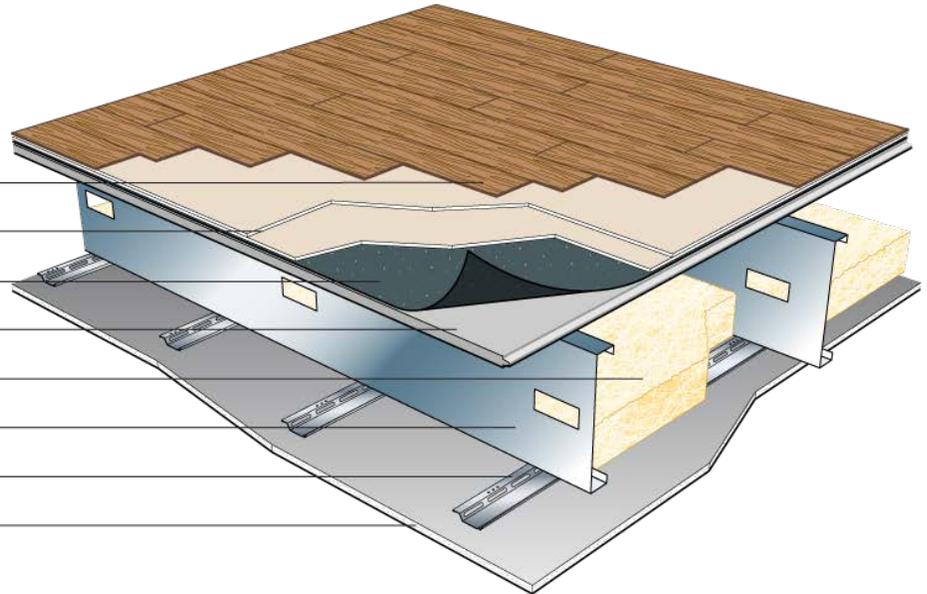
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1/2" Engineered Wood +Fiberock® Brand Underlayment 2-hour Fire Design UL Fire Design H505 | GA File No. FC 1903 www.ULH505.com

- Engineered Wood Flooring
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	57	50	J4242.27
5/16" Kinetics Soundmatt	57	52	J4242.35

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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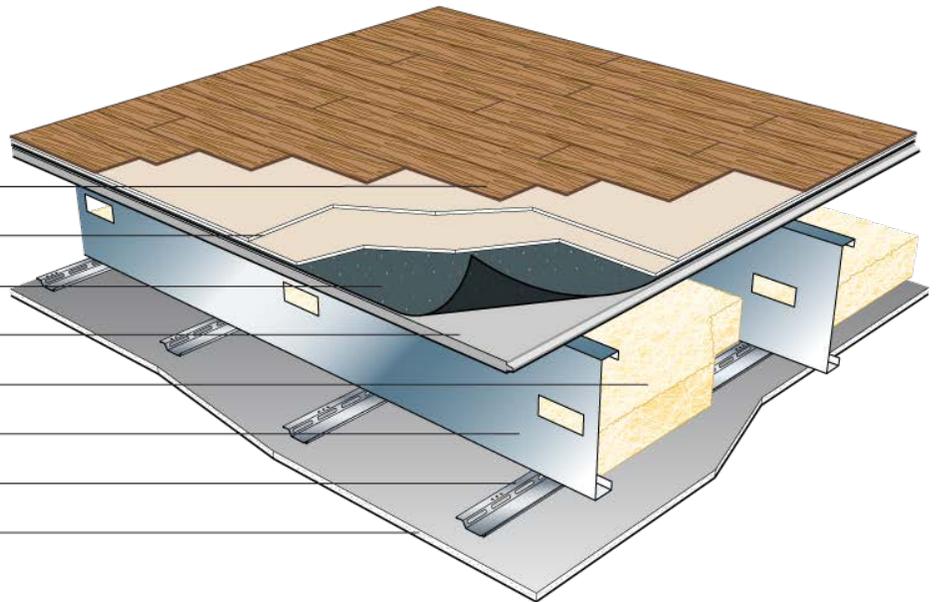
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1/2" Engineered Wood +Fiberock® Brand Underlayment 1.5-hour Fire Design UL Fire Design G556 | GA File No. FC 1800 www.ULG556.com

- Engineered Wood Flooring
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	57	50	J4242.08
5/16" Kinetics Soundmatt	59	53	J4242.16

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

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Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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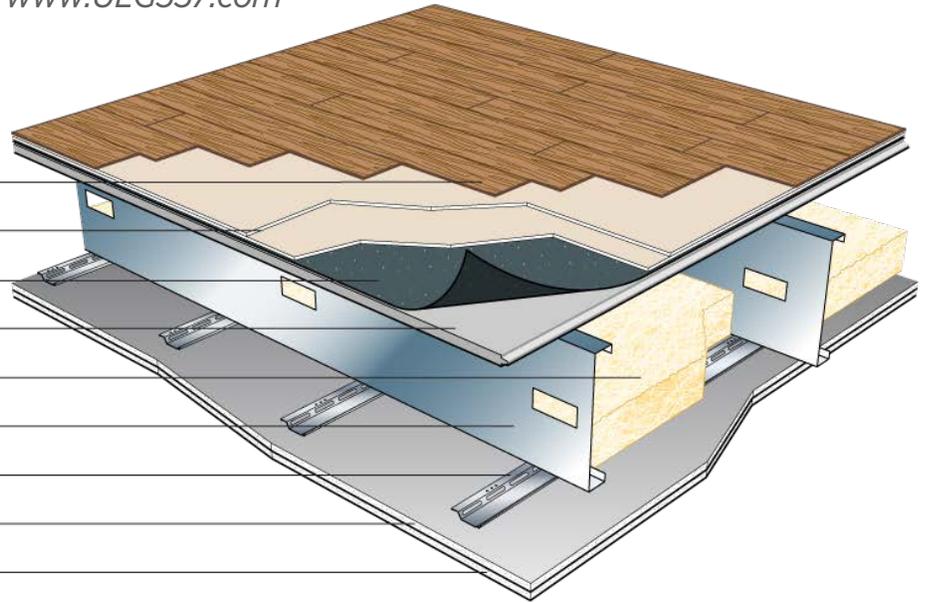
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1/2" Engineered Wood +Fiberock® Brand Underlayment 2-hour Fire Design UL Fire Design G557

www.ULG557.com

- Engineered Wood Flooring
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	58	52	J4242.66
5/16" Kinetics Soundmatt	59	55	J4242.74

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12"o.c. Face layer fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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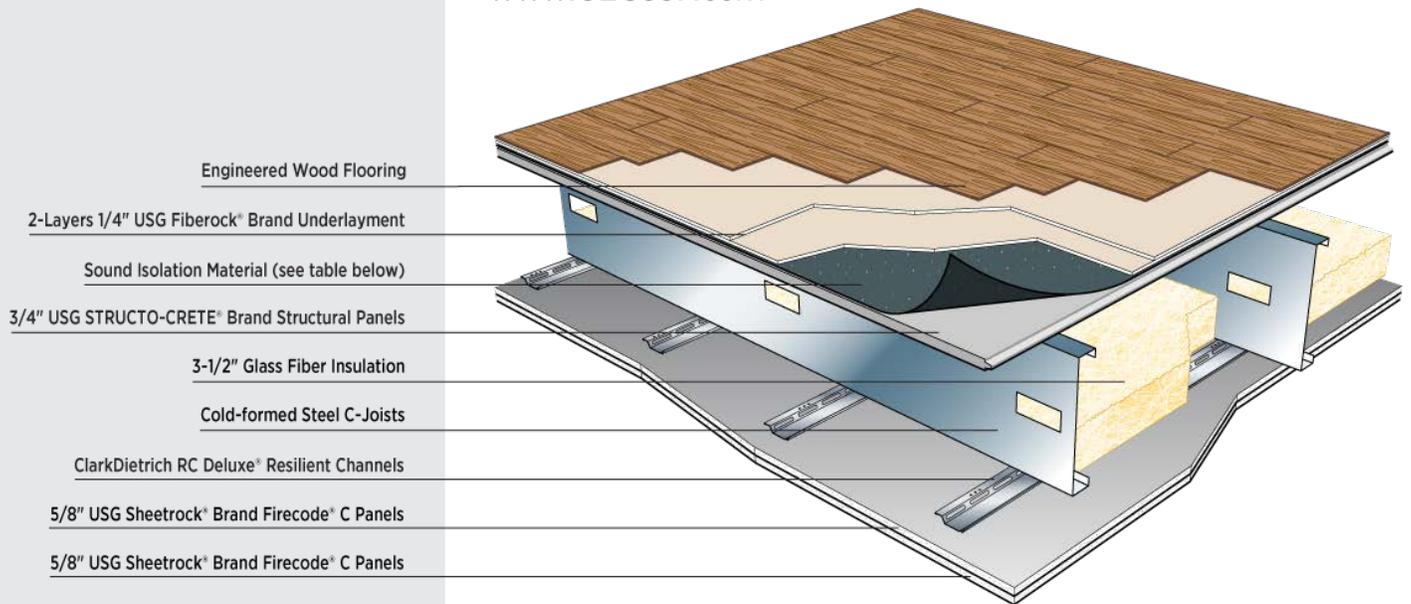
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1/2" Engineered Wood +Fiberock® Brand Underlayment 2-hour Fire Design UL Fire Design G557

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Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	59	55	J4242.47
5/16" Kinetics Soundmatt	60	57	J4242.55

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)** . Base layer fastened to resilient/furring channels with screws spaced 12"o.c. Face layer fastened to resilient/furring channels with screws spaced 8"o.c.

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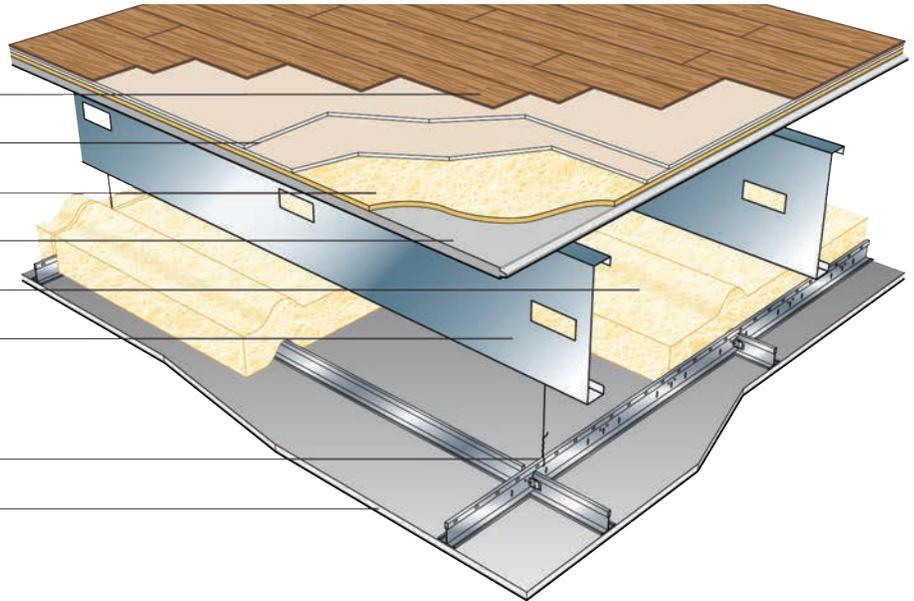
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- Engineered Wood Flooring
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	60	55	i8399.39

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

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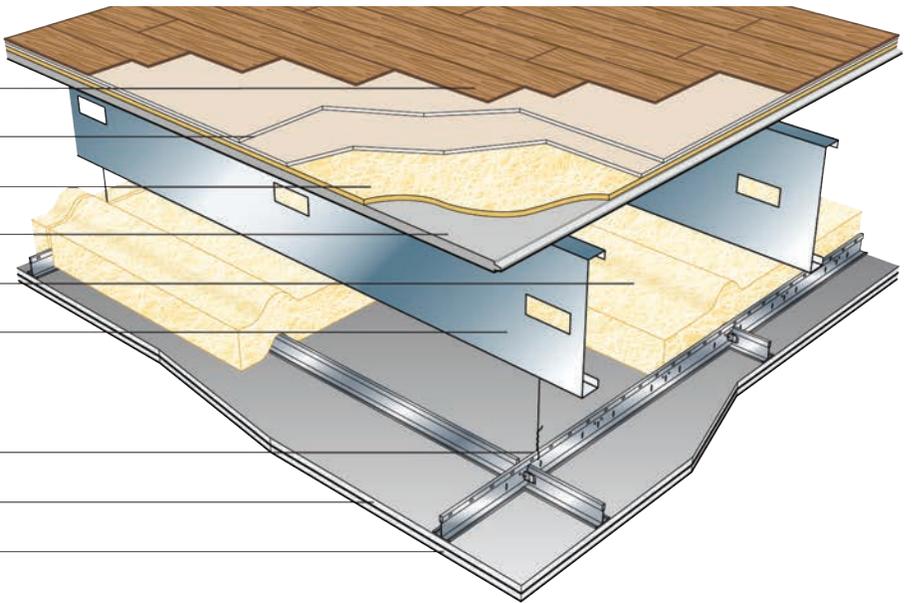
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www.ULG557.com

- Engineered Wood Flooring
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand Firecode® C Panels
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	62	59	i9258.08

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12" o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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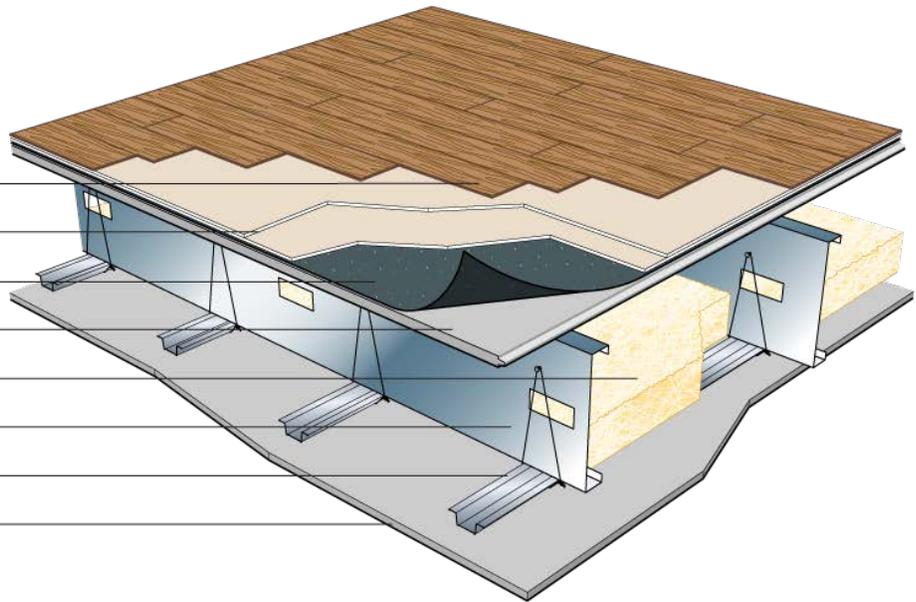
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1/2" Engineered Wood +Fiberock® Brand Underlayment 2-hour Fire Design UL Fire Design G602

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- Engineered Wood Flooring
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 20 Gauge Furring Channels (Hat Channels)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	57	52	i9043.35
PLITEQ GenieMat® RST05	58	53	i9043.51
5/16" Kinetics Soundmatt	59	54	i9043.43

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 33-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16" o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8" o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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12"x12" Ceramic Tile

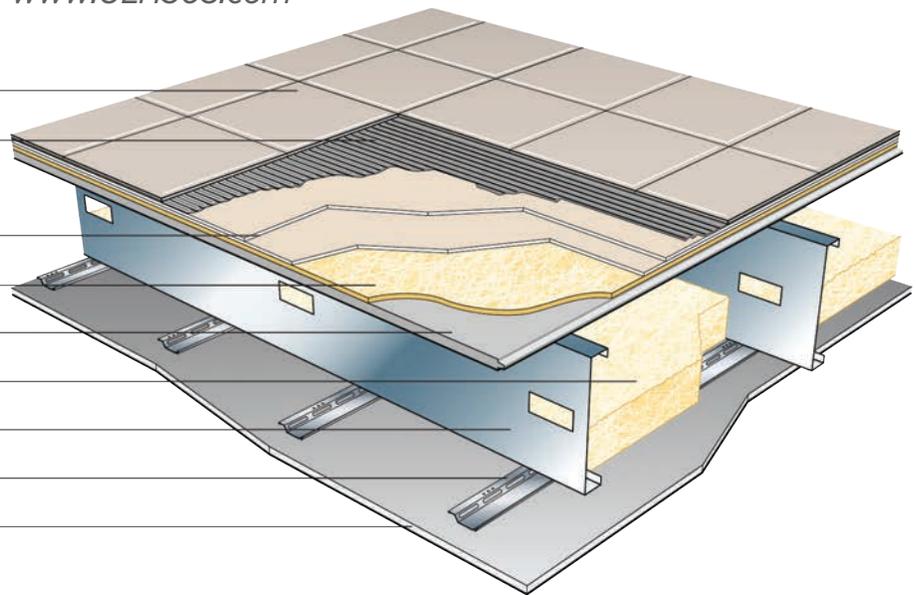
+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design H505 | GA File No. FC 1903

www.ULH505.com

- Ceramic Tile
- Thin-Set Mortar
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	59	54	J4242.36

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12" o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™)** fastened to resilient/furring channels with screws spaced 8" o.c.

See UL-H505 design for all options and specific details (www.ULH505.com).

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12"x12" Ceramic Tile

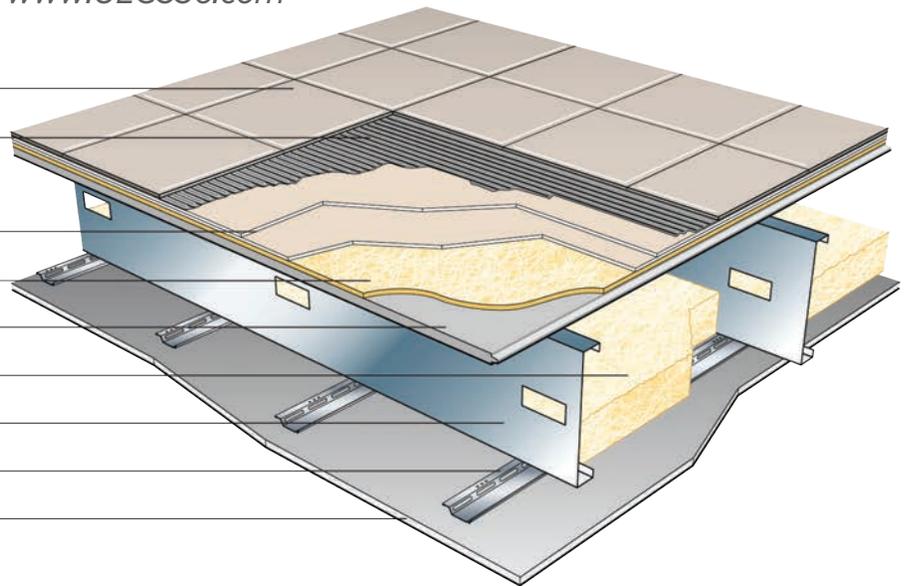
+Fiberock® Brand Underlayment

1.5-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

www.ULG556.com

- Ceramic Tile
- Thin-Set Mortar
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	60	54	J4242.17

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 8" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **One (1) layer 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)** fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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12"x12" Ceramic Tile

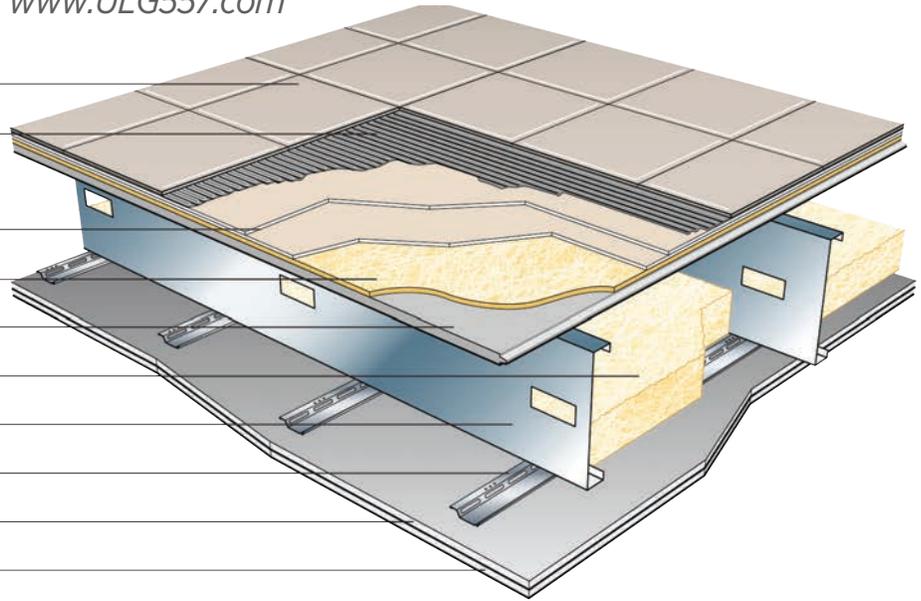
+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design G557

www.ULG557.com

- Ceramic Tile
- Thin-Set Mortar
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X
- 5/8" USG Sheetrock® Brand EcoSmart Panels Firecode® X



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	60	57	J4242.75

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, min. 18 mil. (25 gauge), spaced max. 12"o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C) or Two (2) layers 5/8" USG Sheetrock® Brand EcoSmart Panel Firecode® X (Type ULIX™).** Base layer fastened to resilient/furring channels with screws spaced 12"o.c. Face layer fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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12"x12" Ceramic Tile

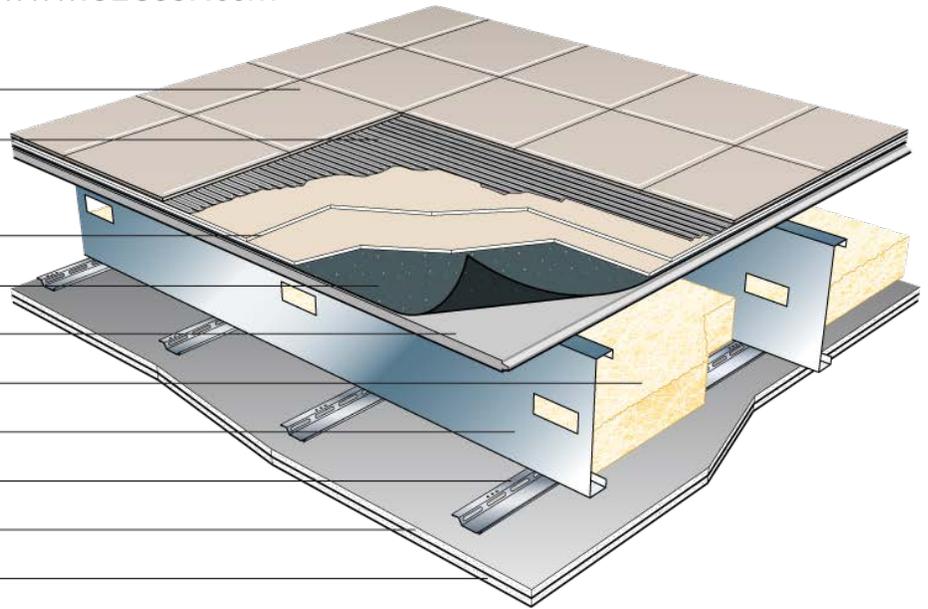
+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design G557 | GA File No.

www.ULG557.com

- Ceramic Tile
- Thin-Set Mortar
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- ClarkDietrich RC Deluxe® Resilient Channels
- 5/8" USG Sheetrock® Brand Firecode® C Panels
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	59	51	J4242.48
5/16" Kinetics Soundmatt	61	59	J4242.56

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by resilient channels.
- **Resilient Channels**, 1/2" deep, 18 mil. (25 gauge), spaced 12"o.c.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to resilient/furring channels with screws spaced 12"o.c. Face layer fastened to resilient/furring channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

Made in Delavan, WI, USA

Note: The acoustic values published in this manual are for the STRUCTO-CRETE® Brand Structural Panels, only. These values do not apply to Cement Bonded Particle Boards (CBPB) or Magnesium Oxide panels. Substitution of any other panel will alter the acoustic results published here.

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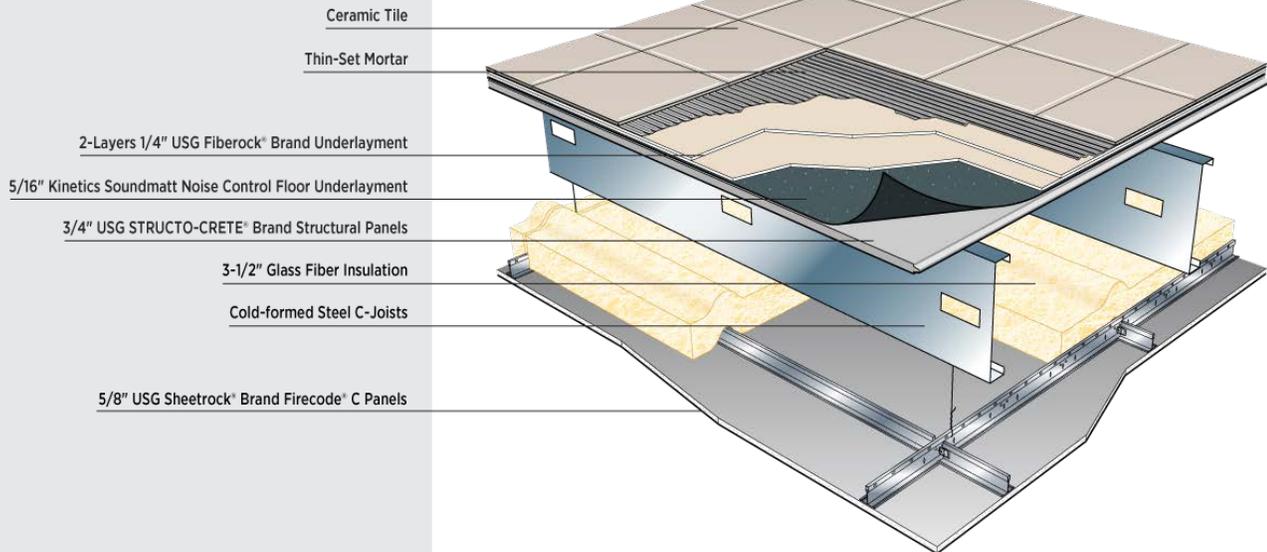
12" x 12" Ceramic Tile

+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design G556 | GA File No. FC 1800

www.ULG556.com



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	61	53	i8399.40

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8" o.c. at the perimeter and max. 12" o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24" o.c.
- **Glass Fiber Insulation**, 33-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **One (1) layer of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**, fastened to suspension system main runners, cross tees or cross channels with screws spaced 8" o.c.

See UL-G556 design for all options and specific details (www.ULG556.com).

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12" X 12" Ceramic Tile

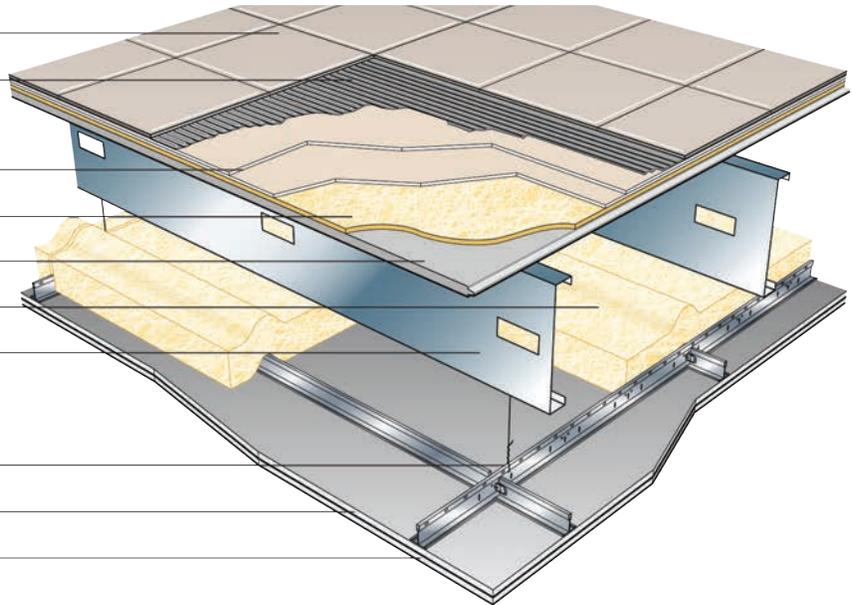
+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design G557

www.ULG557.com

- Ceramic Tile
- Thin-Set Mortar
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- 5/16" Kinetics Soundmatt Noise Control Floor Underlayment
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 6" USG Drywall Suspension System
- 5/8" USG Sheetrock® Brand Firecode® C Panels
- 5/8" USG Sheetrock® Brand Firecode® C Panels



Sound Isolation Material	STC	IIC	USG Design No.
5/16" Kinetics Soundmatt	62	59	i9258.11

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 6" deep (10" tested for acoustics), 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, draped over and supported by DWSS.
- **Steel Framing Members**, consisting of Main Runners, Cross Tees and/or Cross Channels suspended min. 6" from bottom of joist.
- **Two (2) layers of 5/8" USG Sheetrock® Brand Firecode® C Panels (Type C)**. Base layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 12"o.c. Face layer fastened to suspension system main runners, cross tees or cross channels with screws spaced 8"o.c.

See UL-G557 design for all options and specific details (www.ULG557.com).

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12"x12" Ceramic Tile

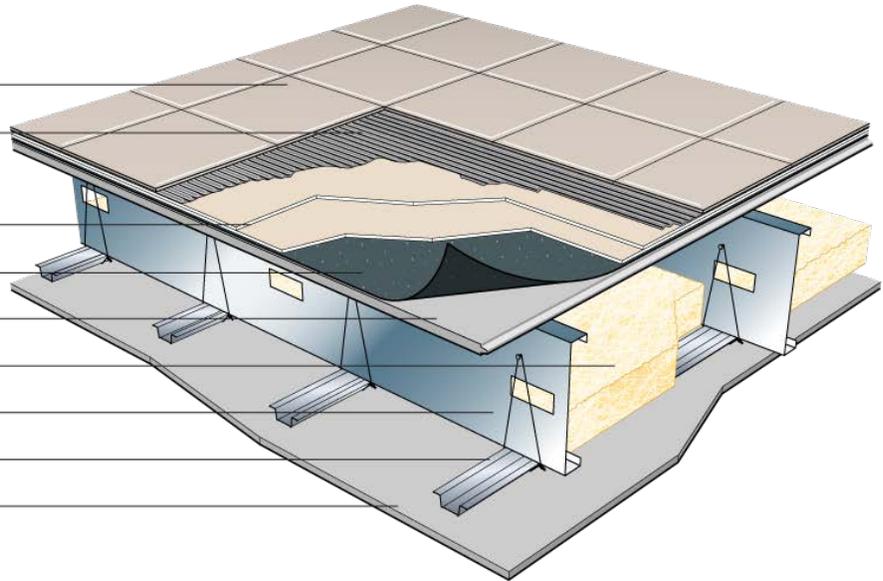
+Fiberock® Brand Underlayment

2-hour Fire Design

UL Fire Design G602

www.ULG602.com

- Ceramic Tile
- Thin-Set Mortar
- 2-Layers 1/4" USG Fiberock® Brand Underlayment
- Sound Isolation Material (see table below)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels
- 3-1/2" Glass Fiber Insulation
- Cold-formed Steel C-Joists
- 20 Gauge Furring Channels (Hat Channels)
- 3/4" USG STRUCTO-CRETE® Brand Structural Panels



Sound Isolation Material	STC	IIC	USG Design No.
PLITEQ GenieMat® RST02	58	51	i9043.36
PLITEQ GenieMat® RST05	59	50	i9043.52
5/16" Kinetics Soundmatt	60	55	i9043.44

Acoustic values generated using a 10" deep, 54mil. (16 gauge) c-joint

SYSTEM DESCRIPTION HIGHLIGHTS

- **3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)** fastened to cold-formed steel C-joists with 1-5/8" long, no. 8 self-drilling, self-countersinking steel flat head fasteners, spaced max. 8"o.c. at the perimeter and max. 12"o.c. in the field of the panel. See ICC Product Evaluation Report ESR-1792 (www.esr1792.com), for more product details.
- **C-joists**, min. 10" deep, 1-5/8" wide flanges, 54 mil. (16 gauge), spaced 24"o.c.
- **Glass Fiber Insulation**, 3-1/2" thick, friction fit into the framing cavity supported by furring (hat) channels.
- **Furring (Hat) Channels** 2-5/8" wide and min. 7/8" deep, 33 mil. (20 gauge), spaced 16"o.c.
- **One (1) layer of 3/4" STRUCTO-CRETE® Brand Structural Panels (Type USGSP or Structo-crete)**, fastened to furring channels with screws spaced 8"o.c.

See UL-G602 design for all options and specific details (www.ULG602.com).

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usgstructural@usg.com

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MSRP based upon full truckload delivered to jobsite:

STRUCTO-CRETE® Brand Structural Panels: \$5.10/sf

STRUCTO-CRETE® Brand Structural Roof Deck Panels: \$6.00/sf

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Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer by inhalation of respirable crystalline silica. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. Use only in a well-ventilated area and wear a NIOSH/MSHA approved respirator. Wear protective gloves/protective clothing/eye protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing. Immediately call a poison center/doctor. If on skin: Wash with plenty of water. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. If skin irritation or rash occurs, or otherwise exposed or concerned: Get medical attention. Store locked up. Dispose of in accordance with local, state and federal regulations. For more information call Product Safety: 800 507-8899 or see the SDS at usg.com
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