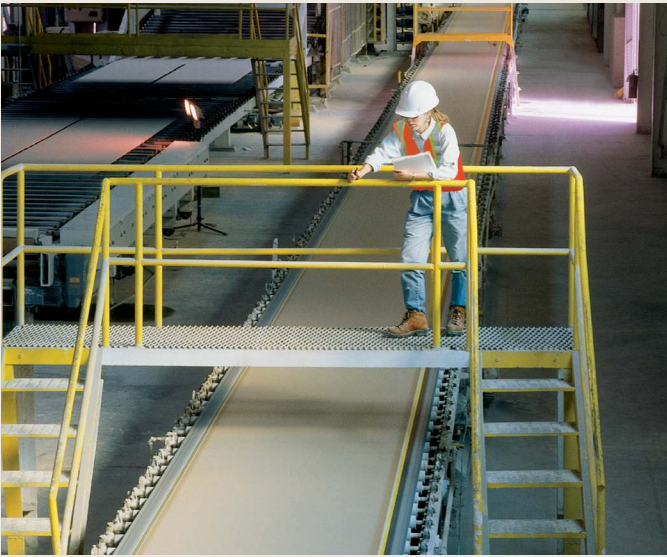


# SilentFX<sup>®</sup> QuickCut<sup>™</sup>

Noise-Reducing Drywall



# Dependability when it matters most



The walls you build are constructed with precision and hard work. The products you use need to bring that same level of performance. That's why we offer a full range of reliable drywall and finishing solutions that make installations faster and simpler, all while helping you keep pace with demand — no matter the size, complexity, or location of the project.

Our drywall solutions are manufactured with quality and consistency, and our products are readily available, no matter where you are in the country. Plus, our in-house technical support team is at the ready to help you through even the most demanding installations. We have your back, so you can easily stay on schedule, within budget, and keep your projects running smoothly.

## BIM/CAD INFORMATION

The BIM and CAD UL fire rated assemblies and sound assemblies can be found on CertainTeed's BIM and CAD Design Studio at [bimlibrary.saint-gobain.com/certainteed](http://bimlibrary.saint-gobain.com/certainteed). CertainTeed's BIM and CAD Design Studio provides BIM and CAD details to many UL fire rated assemblies and sound assemblies in an easy to view experience. Plus, downloadable Revit and DWG and PDF CAD Details are available.

## SUSTAINABILITY

Can contribute to the U.S. Green Building Council's LEED Credit Qualification in several credit categories to assist in obtaining LEED certification. Sustainable documentation, including recycled content, EPDs, HPDs, VOC Certifications, can be found at [saintgobain.ecomedes.com](http://saintgobain.ecomedes.com).



# Building responsibly

**CertainTeed respects the environment through the responsible development of sustainable building products and systems.**

The building industry continues to look for ways to reduce impact on the environment while meeting customer demand for products that deliver beauty, comfort and performance.

CertainTeed's commitment to these goals is reflected here, highlighting our ongoing effort to become the preeminent supplier of green building materials.

Awareness of the importance of acoustics in sustainable construction continues to grow, and this is evident with the inclusion of sustainability requirements in many building programs and codes:

## LEED v4.1

- IEQ Credit 9  
Acoustic Performance
- MR Credit: Building Product Disclosure and Optimization—Environmental Product Declarations. On many of our products, valued as 1.5 products with our Product-Specific Type III EPDs.
- MR Credit: Building Product Disclosure and Optimization—Materials Ingredients. On many of our products, valued as 1 product with our Health Product Declarations (HPDs).

## GREEN GUIDE FOR HEALTH CARE

- EQ Credit 9.1  
Acoustic Environment

## 2015 INTERNATIONAL GREEN CONSTRUCTION CODE (IGCC)

- Section 3.3  
Acoustical Control

## WELL v1:

- #1 - Air: Air Quality Standards
- #4- Air: VOC Reduction
- #11 - Air: Fundamental Material Safety
- #25 - Air: Toxic Material Reduction
- #26 - Air: Enhanced Material Safety
- #74 - Comfort: Exterior Noise Intrusion
- #81 - Comfort: Sound Barriers
- #97 - Mind: Material Transparency



**REVIEW SYSTEMS PERFORMANCE INFORMATION TO SEE HOW SILENTFX® QUICKCUT™ SYSTEMS CAN HELP CONTRIBUTE TO THESE SUSTAINABLE PROGRAMS.**



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USGBC® and the related logo are trademarks owned by the U.S. Green Building Council® and are used with permission.

# Hear is what matters

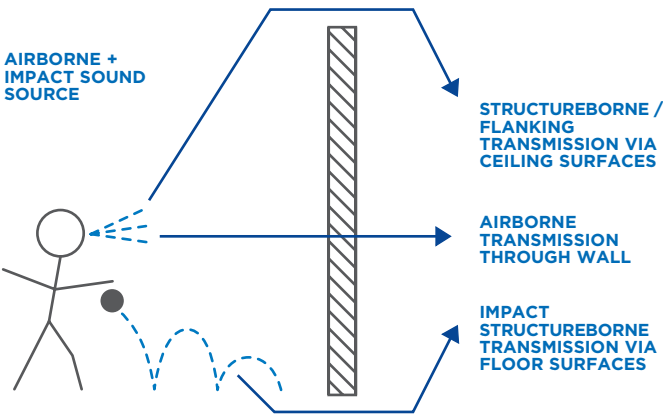
Acoustics is the scientific study of sound. The majority of architectural acoustic situations consist of a source, a path and a receiver. The source can be the neighbors' home theater system, a patient waiting room or the high school band practice room. The receiver can be a person trying to talk on the phone, sitting in an examination room or conducting a class. The sound transmission paths are those building elements through which noise from the source travels to interfere with our daily activities. SilentFX® QuickCut™ drywall panel systems address these paths and through proper design and installation contribute to satisfactory sound isolation and privacy.

## DECIBEL (dB)

A measurement of sound intensity or loudness.  
The more intense the sound, the higher the dB level.

## AIRBORNE VS. STRUCTUREBORNE SOUND

**Airborne:** Sound transmitted through air.  
**Structureborne:** Sound transmitted through structure of building.



Some key performance characteristics of good acoustic design are to provide mass to the system with the ability to dampen vibrations caused by sound energy striking the system. SilentFX® QuickCut™ drywall panel is engineered using the mass of two dense gypsum layers with an inner layer of viscoelastic polymer that acts much like a shock absorber to dampen board vibrations. This type of “Constrained Layer Damping” board product performs well acoustically over an extended range of frequencies, resulting in increased Sound Transmission Class (STC) ratings for the systems.

SOURCE ROOM	RECEIVING ROOM	MIN. STC*
SCHOOL		
Classroom	Adjacent Classroom	STC 42
	Speech use only	STC 48
	Speech + Audiovisual	STC 42
	Corridor, public area	STC 52+
	Recreational area	STC 52+
DOCTOR'S SUITE		
Office	Adjacent offices	STC 52
	Corridor, lobby	STC 52
	Mechanical	STC 52+
HOTEL		
Bedroom	Adjacent bedroom	STC 48+
	Corridor, lobby, public area	STC 48+
	Mechanical	STC 52+
MULTI-FAMILY HOME		
Bedroom	Adjacent Bedroom	STC 48-55
	Living room, separate occupancy	STC 50-57
	Corridor, lobby, public area	STC 48-55
	Exterior of building	STC 42-60

\* Recommended minimum STC

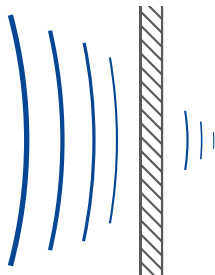


# Noise leaks and flanking paths

Noise leaks, as the term implies, are the result of situations such as unsealed gaps at wall/wall, wall/floor and wall/ceiling junctures, medicine cabinets installed back to back and electrical outlets on each side of a wall sharing the same stud cavity. Flanking paths are those indirect routes that noise can follow to an adjacent room or dwelling, such as openings under doors, air ducts and floors under a common wall. Reducing or eliminating through-wall penetrations and restricting wall penetrations to one per stud cavity assists in achieving the acoustical performance of the wall system. Such noise problems can be greatly reduced by thoughtful planning in the early stages of the building's design and close supervision with proper attention to small details during construction.

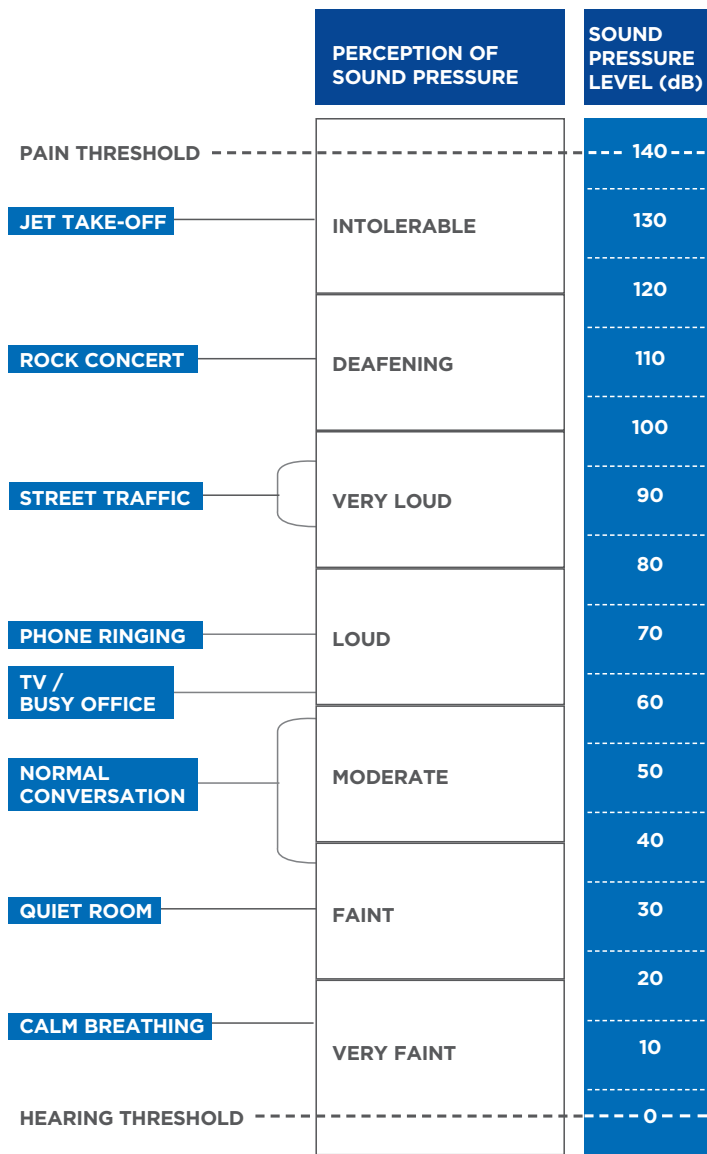
## SOUND TRANSMISSION CLASS (STC) RATING

A single number rating system that represents the sound transmission loss performance of a wall.



## AMBIENT NOISE

All sound in a given environment, including sound from outdoors, building services and utilities.



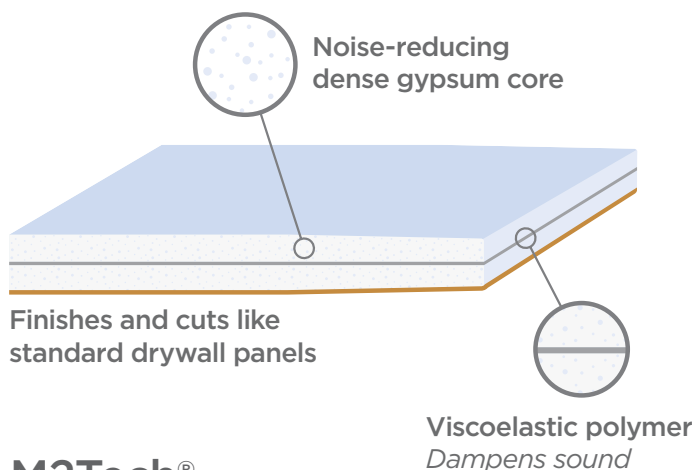
# SilentFX® QuickCut™

## Noise-Reducing Drywall Panels — for the best in acoustic management

CertainTeed's SilentFX® QuickCut™ drywall panels are noise-reducing panels specifically designed for systems requiring high Sound Transmission Class (STC) ratings.

SilentFX® QuickCut™ noise-reducing drywall panel is specifically designed to reduce airborne sound transmission between two adjoining spaces when used in wall or floor/ceiling assemblies. SilentFX® QuickCut™ drywall panel features a viscoelastic polymer that installs and finishes like standard drywall, and dampens sound energy.

Application of the viscoelastic polymer between two specially formulated dense gypsum cores results in a combination that significantly improves sound attenuation and is ideal for systems requiring high STC performance. Commercial acoustic systems featuring SilentFX QuickCut drywall panel provide STC ratings of 50 and up. In addition to providing exceptional acoustic performance, this functionally superior board is engineered to install and finish like standard drywall.



**M2Tech®**

Mold and moisture

\*\*\* Results are reflective of samples prepared with 1 coat primer and 1 coat paint

### SILENTFX® QUICKCUT™ FINISHES LIKE STANDARD DRYWALL

### ENHANCED ACOUSTICAL PERFORMANCE

STC ratings of 50 and greater

### ENHANCED FIRE RESISTANCE

Available in 5/8" Type X,  
UL/cUL Classified and ULC Listed

### MOLD RESISTANCE

Best possible score per ASTM D3273

### ABUSE RESISTANCE

Per ASTM C1629

### 5/8"

Surface Abrasion: 3\*\*\*

Indentation: 1

Soft Body: 2

Hard Body: 2

### LOW-EMITTING VOC MATERIAL

GREENGUARD® Gold Certified

### HIGH-DENSITY CORE

Provides increased mass

### HEALTH PRODUCT DECLARATIONS (HPDs)

### PRODUCT-SPECIFIC TYPE III ENVIRONMENTAL PRODUCT DECLARATIONS (EPDs)





# SilentFX® QuickCut™

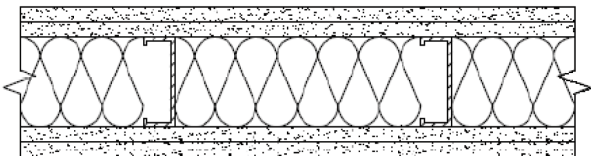
## Noise-Reducing Drywall Panel — acoustic solutions without complex techniques

SilentFX® QuickCut™ drywall panels are an excellent acoustic solution for meeting STC specifications without complex techniques such as isolation clips or resilient channels. It can also help reduce material usage versus traditional gypsum systems that require high sound attenuation.

### MORE RELIABLE THAN CLIPS AND CHANNELS

Clips and resilient channel can easily be short-circuited during the construction process and even afterwards, during picture hanging or pressing of heavy objects against the wall, negatively affecting acoustic performance. These risks are eliminated when using SilentFX® QuickCut™ drywall panels, thus providing more consistent acoustic performance. When used in systems with resilient channel, SilentFX QuickCut Drywall Panels, can reduce the negative effect of short circuits.

### DOUBLE LAYER CERTAINTED 5/8" TYPE X



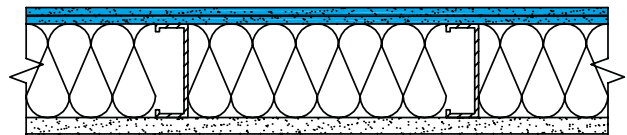
### DOUBLE LAYER CERTAINTED 5/8" TYPE X

Thickness: 6-1/8"  
Acoustic rating: STC 56  
Sound test: NOAL 19-0602

### SQUARE-FOOT SAVINGS

The high acoustic performance of SilentFX QuickCut drywall panels make it possible to build effective noise-reducing walls with less material, gaining valuable floor square footage, and saving both construction time and material cost. Less material used also means a more sustainable structure in keeping with today's green building practices.

### SINGLE LAYER SILENTFX® QUICKCUT™ 5/8" TYPE X



### SINGLE LAYER CERTAINTED 5/8" TYPE X

Thickness: 4-7/8"  
Acoustic rating: STC 56  
Sound Test: OL 17-0221

A photograph of a hospital room. In the center is a hospital bed with white linens and a pillow. To the left is a window with blue patterned curtains. To the right of the bed is a white bedside cabinet with a telephone on top. Above the bed is a medical equipment rail with various devices and a yellow tube. The ceiling is white with a grid pattern. A blue callout box is in the bottom left corner.

**SilentFX® QuickCut™**

**Rx Symphony® m  
Mineral Fiber Ceilings**

**CertainTeed® Fiber  
Glass Insulation**

## A quiet place to heal.

Healthcare facilities need to provide an oasis of quiet — conducive to healing. They are also under pressure to reduce costs and be more responsive to patients. In hospitals with reduced noise levels, patient satisfaction with caregiving is increased and sleep is improved. This leads to faster healing, which can mean shorter stays and reduced costs for both patients and hospitals.

### **BENEFITS FOR HEALTHCARE FACILITIES**

Improves patients' sleep and healing time,  
leading to reduced costs

Increases staff job satisfaction, which can  
reduce turnover

Helps meet HIPAA acoustic privacy regulations





Symphony® f  
Fiber Glass Ceilings

CertainTeed® Fiber  
Glass Insulation

SilentFX® QuickCut™

## More learning with less distraction.

Learning depends on communication between teachers and students. Excessive noise creates a barrier to learning. Noise such as conversations in hallways, sound systems, students in other classrooms and mechanical equipment can hamper student concentration. Background noise causes teachers to raise their voices, which results in vocal strain over time. SilentFX® QuickCut™ drywall panels specifically reduce sound transmission from adjacent spaces to make it easier for teachers to be heard and students to learn.

### BENEFITS FOR SCHOOLS

Reduces distractions so students can pay closer attention and learn more effectively

Keeps the lines of communication between students and teachers clear and open

Reduces teacher voice strain and increases effectiveness



SilentFX® QuickCut™

CertainTeed® Fiber  
Glass Insulation

## Get away from it all.

A hotel's most important promise to its guests is privacy and relaxation. Guests who feel relaxed and refreshed are more likely to return and recommend the hotel to others. Yet by nature, hotels are busy, noisy places. People come and go around the clock, vacuums whirr, foot traffic and conversations can be heard up and down hallways. SilentFX® QuickCut™ drywall panels enhance the guest experience by providing a sound-buffered oasis of comfort amid the hustle and bustle of the busiest hotel.

### BENEFITS FOR HOTELS

Helps guests feel relaxed and comfortable  
so they want to return

Isolates noise from other guest rooms,  
service corridors and mechanical equipment

Reduces disruptions and distractions in  
conference rooms and other meeting spaces





CertainTeed® Fiber  
Glass Insulation

SilentFX® QuickCut™

## Never hear the neighbors.

In a home, good acoustics are even more important to ensure quality of life. SilentFX® QuickCut™ reduces noise between residential units to increase the sense of separation from neighbors that is necessary for comfort and privacy. SilentFX® QuickCut™ drywall panel systems, with an STC rating of 50 or higher, substantially decrease sound transmitted through walls and improve residents' satisfaction, which leads to less turnover and fewer expenses associated with filling vacancies.

### BENEFITS FOR MULTI-FAMILY HOMES

Minimizes neighborhood noise

Increases community harmony

Improves resident satisfaction and peace of mind

# Product specifications

SilentFX® QuickCut™ noise-reducing drywall panels are manufactured in nominal 1/2" and 5/8" Type X, 48" width by 8', 9', 10' and 12' lengths.

	1/2" SILENTFX® QUICKCUT™	5/8" SILENTFX® QUICKCUT™ TYPE X
Product Standards	ASTM C1766	ASTM C1766; C1629
Application Standards	ASTM C840; GA-216	ASTM C840; GA-216
Widths	48"	48"
Standard Lengths*	8' 9' 10' 12'	8' 9' 10' 12'
Weight	2.1 lb/ft²	2.8 lb/ft²
Edges	Tapered	Tapered
Flame Spread (ASTM E84)	0	0
Smoke Developed (ASTM E84)	0	0
Mold Resistance Rating** (ASTM D3273)	10	10
Abuse Resistance Classifications (ASTM C1629)		
Surface Abrasion	—	3***
Indentation	—	1
Soft Body Impact	—	2
Hard Body Impact	—	2

The performance of SilentFX® QuickCut™ noise-reducing drywall panel in actual use may not accurately reproduce these ASTM laboratory test results. Good design and construction practices that prevent exposure of building products to water and moisture are the most effective strategy to avoid mold growth.

\* Special lengths or edges may be available as a special order. Please contact your CertainTeed Representative.

Standard lengths may differ by region, please contact your sales rep for more information.

\*\* No mold growth detected. Note: 10 is the best possible rating for ASTM D3273.

\*\*\* Results are reflective of samples prepared with 1 coat primer and 1 coat paint



SilentFX® QuickCut™ Type X drywall has excellent acoustic properties for meeting and exceeding STC specifications.



# Installation and finishing

**SilentFX® QuickCut™ drywall panels are installed following traditional methods of application and finishing of interior drywall products for both walls and ceilings.**

## INSTALLATION

1/2" SilentFX QuickCut drywall is for use on interior walls in residential, commercial and institutional applications.

5/8" SilentFX QuickCut Type X drywall is for use on interior walls and ceilings in residential, commercial and institutional applications.

- Plan SilentFX QuickCut drywall layout to stagger joints from one side of the wall to the other and stagger between board layers for multi-layered assemblies
- Install batt insulation (CertainTeed's thermal and acoustical fiber glass insulation or equivalent) in cavities
- Use Green Glue® noiseproofing sealant, or equivalent acoustic sealant, to seal electrical outlet boxes
- Install SilentFX QuickCut drywall panels in accordance with GA-216, *Application and Finishing of Gypsum Panels* (ASTM C840)
- Allow a 1/4" gap around all wall perimeter edges
- SilentFX QuickCut boards are cut by scoring from the face side and snapping the same as standard drywall panels
- Seal the 1/4" perimeter gaps and wall penetrations per ASTM C919 with Green Glue or equivalent acoustical sealant

## FINISHING

SilentFX QuickCut drywall panel may be finished, painted or wallpapered using conventional drywall finishing techniques. The Gypsum Association GA-214, *Recommended Levels of Drywall Panel Finish* should be referenced when specifying the level of finishing desired.

## FIRE-RATED ASSEMBLIES

For the installation of fire-rated assemblies, refer to the appropriate UL/cUL or ULC design in the UL/ULC Fire Resistance Directories for details such as board orientation and fastening schedules.

The UL/ULC Type Designation for 5/8" SilentFX QuickCut Type X is Type SilentFX.

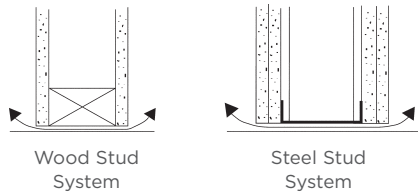


**SilentFX® QuickCut™ drywall panels are engineered to install and finish like standard gypsum board.**

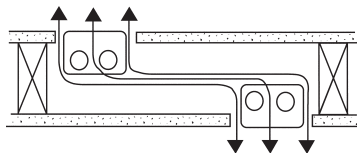
# Sound isolation construction

## “NORMAL CONSTRUCTION”

Not suitable for good sound control.  
Arrows show flanking paths

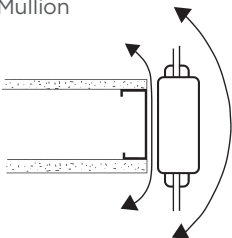


Elevation  
Under and Over Partitions

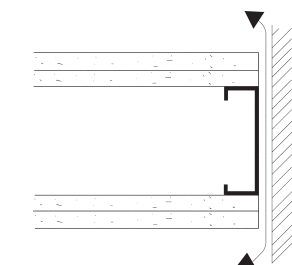


Plan  
Through Partitions, Openings,  
Outlet Boxes

Window Mullion



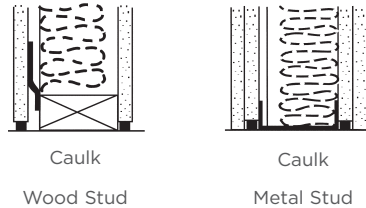
Plan  
Around Flanking Partition Ends



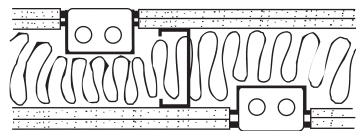
Plan  
Metal Stud  
Around Flanking Partition Ends

## “SELECT CONSTRUCTION”

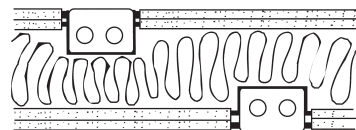
Caulking of relief detail at perimeter  
of partition to prevent sound leakage



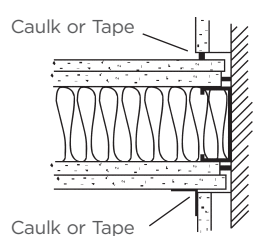
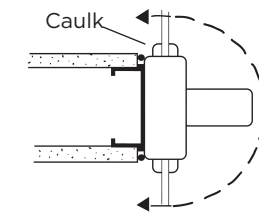
Elevation



Plan  
Indicating Caulking of Openings  
Through Partitions



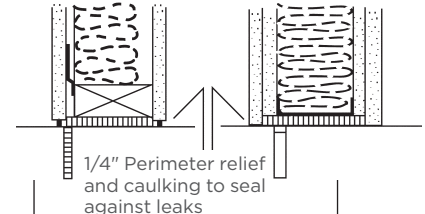
Plan  
Typical Partition Mullion Intersection



Plan  
Intersection With Interior Wall

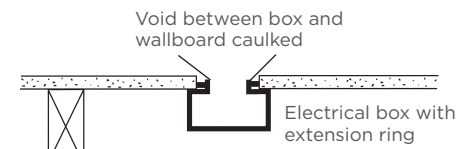
## “PRE-DESIGN” CONSTRUCTION

Simulating laboratory conditions



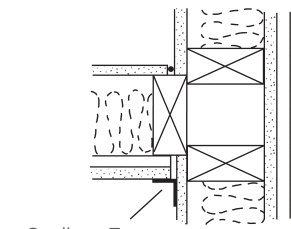
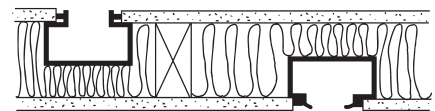
Gasket impedes structural  
flanking through floor

Elevation  
Typical Floor-Ceiling or Roof Detail

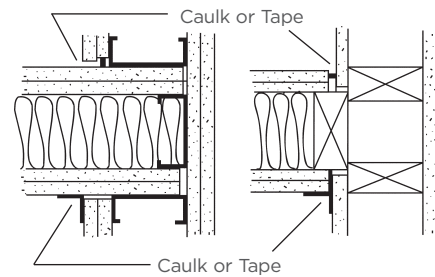


Plan  
Outlet Box Detail

Offset boxes minimum of one stud  
space and caulk openings

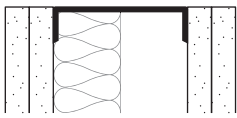
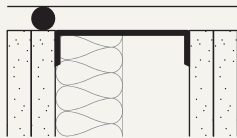
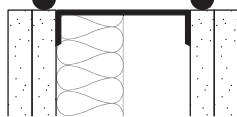
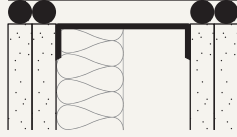


Plan  
Intersection With Exterior Wall



Plan  
Typical Partition Intersections

# Impact of sealing on reducing flanking noise

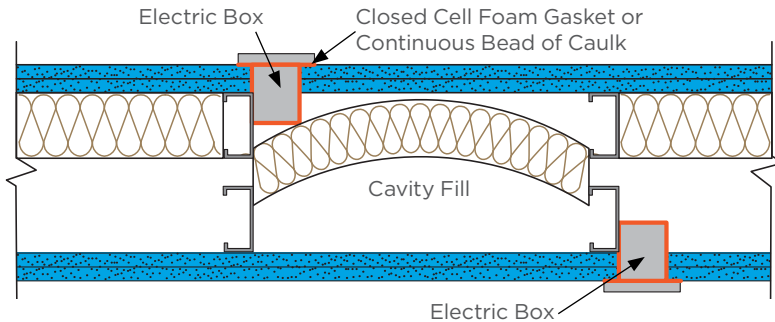
EDGE DETAIL	STC VALUE	COMMENTS
	Unsealed	The open-edge track gave the STC value of 29 through direct leakage
	Single sealant at the perimeter of one base layer	The bead closed void but did not seal leakage around the joint between the wallboard and track
	Two sealants, one for each base layer of gypsum board	The beads closed void and sealed leakage around track
	Four sealants, one for each base and face layer of gypsum board	The void is closed; no leaks around track and wallboard

Courtesy of the Gypsum Association



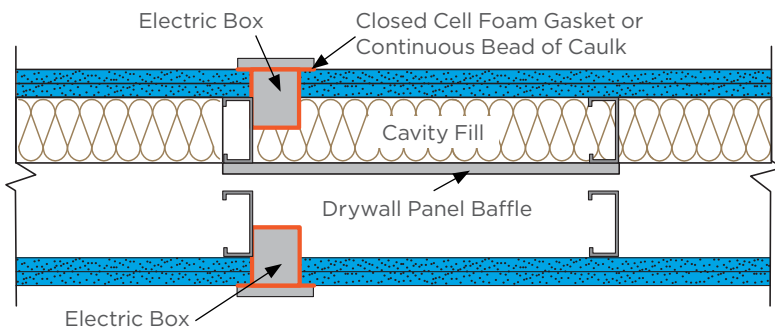
# Techniques for maintaining STC performance

## STAGGERED OUTLETS



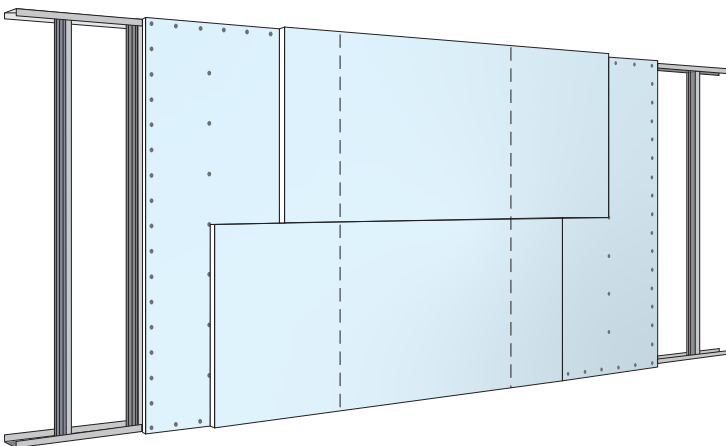
Air seal electrical outlets. Stagger outlet locations to reduce direct sound paths.

## NON-STAGGERED OUTLETS



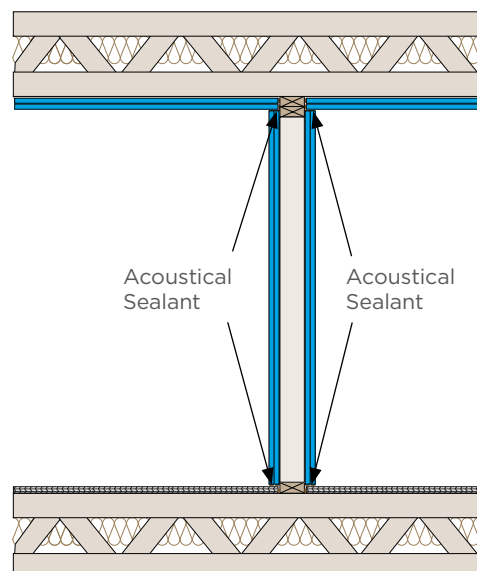
If outlets are not staggered, block direct paths between outlets with sound barrier.

## STAGGERED GYPSUM



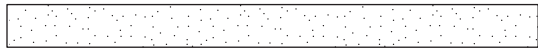
Stagger gypsum board joints to reduce sound transmission

## ACOUSTICAL SEALANT

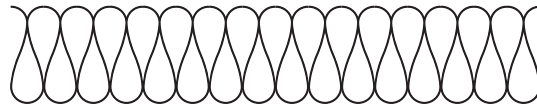


Use Acoustical Sealant around perimeter gaps and wall penetrations

# Acoustic assembly key



Gypsum Plaster  
Gypsum Floor Underlayment  
Gypsum Panel Product



Glass Fiber or Mineral Wool Insulation



Factory-Laminated Gypsum Panel Product

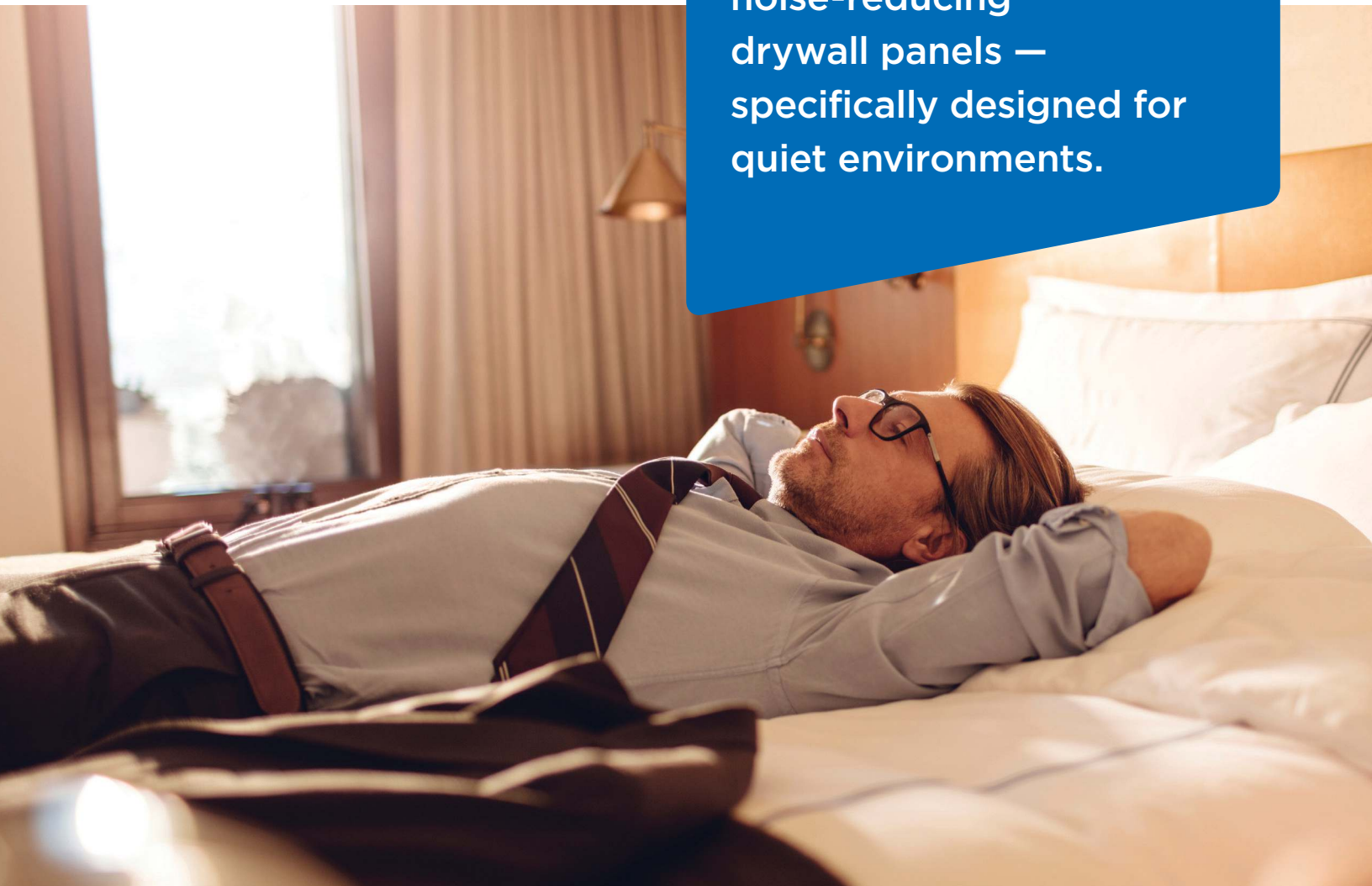


Resilient Channel  
(Plan)



Wood Structural Panel  
(OSB, Plywood, Etc.)

**SilentFX® QuickCut™**  
noise-reducing  
drywall panels —  
specifically designed for  
quiet environments.



## 1/2" SILENTFX® QUICKCUT™ - WOOD STUD SYSTEMS

### 16" o.c. - 2" x 4"

**A** Nominal 2"x4" wood studs 16" o.c.

**ONE SIDE**

**B** 1/2" SilentFX QuickCut applied with 1-1/4" type W screws 16" o.c.

**OPPOSITE SIDE**

**C** 1/2" Easi-Lite® drywall applied with 1-1/4" type W screws 16" o.c. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

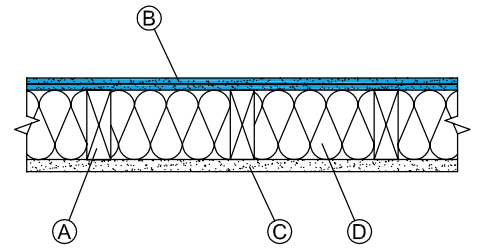
**STC RATING**

41

OL 17-0328

**FIRE RATING**

N/A



### 24" o.c. - 2" x 4"

**A** Nominal 2"x4" wood studs 24" o.c.

**ONE SIDE**

**B** 1/2" SilentFX QuickCut applied with 1-1/4" type W screws 16" o.c.

**OPPOSITE SIDE**

**C** 1/2" Easi-Lite® drywall applied with 1-1/4" type W screws 16" o.c. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

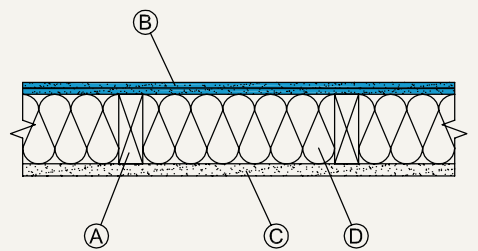
**STC RATING**

50

OL 17-0208

**FIRE RATING**

N/A



**A** Nominal 2"x4" wood studs 24" o.c.

**ONE SIDE**

**B** 1/2" SilentFX QuickCut applied with 1-1/4" type W screws 16" o.c.

**OPPOSITE SIDE**

**C** 1/2" SilentFX QuickCut applied with 1-1/4" type W screws 16" o.c. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

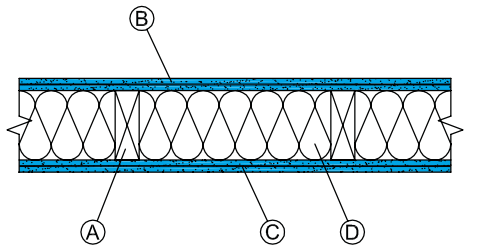
**STC RATING**

54

OL 17-0211

**FIRE RATING**

N/A



## 5/8" SILENTFX® QUICKCUT™ - WOOD STUD SYSTEMS

### 16" o.c. - 2" x 4" - 1 hr fire rating

**A** Nominal 2"x4" wood studs 16" o.c.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 8" o.c.

**OPPOSITE SIDE**

**C** 5/8" CertainTeed® Type X applied with 1-1/4" type W screws 8" o.c. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

**STC RATING**

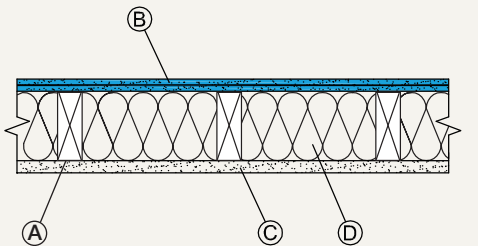
40

NOAL 21-0658

**FIRE RATING**

1 hr.

UL/cUL U305



**NOTE:** SilentFX® QuickCut™ drywall panels can be used as either the base or face layer in a multi-layer system without affecting the STC rating. Equivalent fiber glass insulations may be substituted for CertainTeed Insulation products.



## 5/8" SILENTFX® QUICKCUT™ - WOOD STUD SYSTEMS

**A** Nominal 2"x4" wood studs 16" o.c.

### ONE SIDE

**B** 1/2" plywood applied with 1-7/8" nails 6" o.c. perimeter and 12" o.c. field

**C** 5/8" Type X applied with 2-3/8" nails 7" o.c.

### OPPOSITE SIDE

**D** 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 8" o.c. All joints staggered.

**E** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

### STC RATING

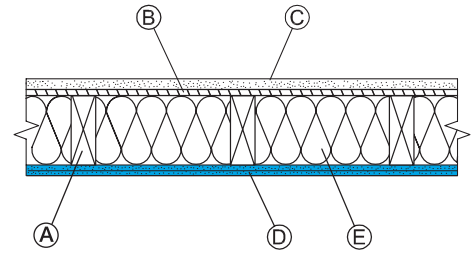
45

NOAL 18-0315

### FIRE RATING

1 hr.

UL/cUL U305



**A** Nominal 2"x4" wood studs 16" o.c.

### ONE SIDE

**B** 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 12" o.c.

### OPPOSITE SIDE

**C** 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 12" o.c. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

### STC RATING

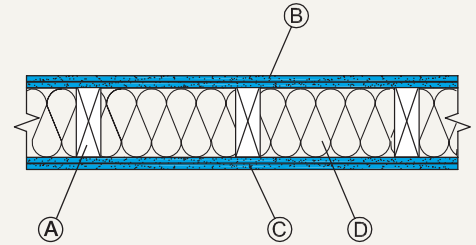
45

OL 17-0219

### FIRE RATING

1 hr.

UL/cUL U305



**A** Nominal 2"x4" wood studs 16" o.c.

### ONE SIDE

**B** Resilient channel 24" o.c.

**C** 5/8" SilentFX QuickCut Type X applied with 1" type S screws 8" o.c.

### OPPOSITE SIDE

**D** 5/8" CertainTeed® Type X applied with 1-1/4" type W screws 8" o.c. All joints staggered.

**E** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

### STC RATING

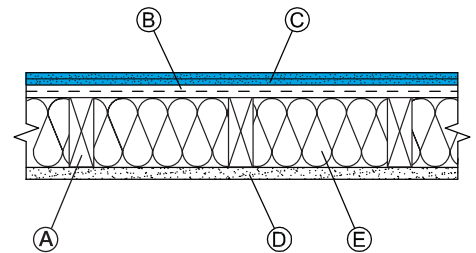
52

OL 18-0819

### FIRE RATING

1 hr.

UL/cUL U305



**A** Nominal 2"x4" wood studs 16" o.c. staggered 8" o.c. on 6" plates.

### ONE SIDE

**B** 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 8" o.c.

**C** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

### OPPOSITE SIDE

**D** 5/8" CertainTeed® Type X applied with 1-1/4" type W screws 8" o.c. All joints staggered.

**E** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

### STC RATING

52

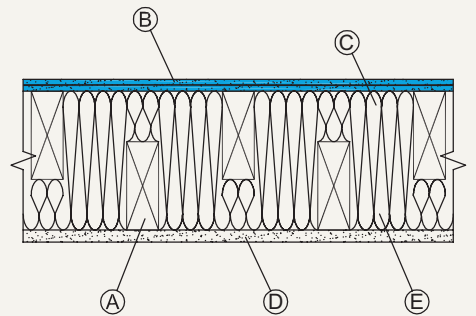
NGC 2016146

### FIRE RATING

1 hr.

UL/cUL V432

ULC W313



**A** Nominal 2"x4" wood studs 16" o.c.

### ONE SIDE

**B** Resilient channel 24" o.c.

**C** 5/8" SilentFX QuickCut Type X applied with 1" type S screws 8" o.c.

### OPPOSITE SIDE

**D** 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 8" o.c. All joints staggered.

**E** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

### STC RATING

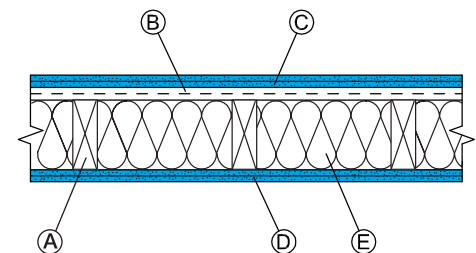
54

OL 18-0816

### FIRE RATING

1 hr.

UL/cUL U305



## 5/8" SILENTFX® QUICKCUT™ - WOOD STUD SYSTEMS

### 24" o.c. - 2" x 4" - 1 hr fire rating

A Nominal 2"x4" wood studs 24" o.c.

#### ONE SIDE

B 5/8" SilentFX QuickCut applied with 1-1/4" type W screws 8" o.c.

#### OPPOSITE SIDE

C 1/2" plywood applied with 1-7/8" nails 6" o.c. perimeter and 12" o.c. in the field

D 5/8" CertainTeed® Type X applied with 2-3/8" nails 7" o.c. All joints staggered.

E 3-1/2" CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

#### STC RATING

51

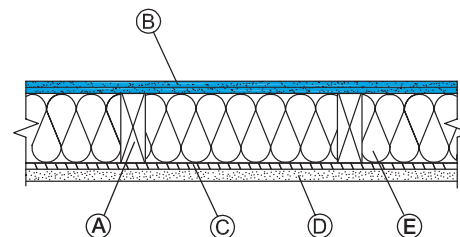
NOAL 18-0316

#### FIRE RATING

1 hr.

UL/cUL U309

ULC W313



A Nominal 2"x4" wood studs 24" o.c.

#### ONE SIDE

B Resilient channel 24" o.c.

C 5/8" SilentFX QuickCut Type X applied with 1" type S screws 8" o.c.

#### OPPOSITE SIDE

D 5/8" CertainTeed® Type X applied with 1-1/4" type W screws 8" o.c. All joints staggered.

E 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

#### STC RATING

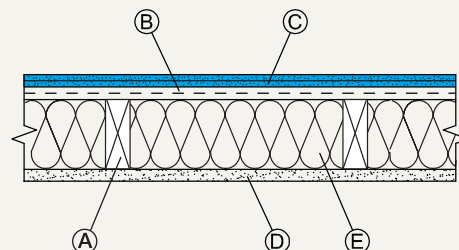
52

NOAL 21-0656

#### FIRE RATING

1 hr.

UL/cUL U309



A Nominal 2"x4" wood studs 24" o.c.

#### ONE SIDE

B 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 12" o.c.

#### OPPOSITE SIDE

C 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 12" o.c.

D 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent

#### STC RATING

54

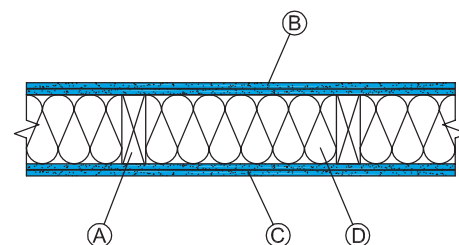
OL 15-1110

#### FIRE RATING

1 hr.

UL/cUL U309

ULC W313



A Nominal 2"x4" wood studs 24" o.c.

#### ONE SIDE

B Resilient channel 24" o.c.

C 5/8" SilentFX QuickCut Type X applied with 1" type S screws 8" o.c.

#### OPPOSITE SIDE

D 5/8" CertainTeed SilentFX QuickCut Type X applied with 1-1/4" type W screws 8" o.c. All joints staggered.

E 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

#### STC RATING

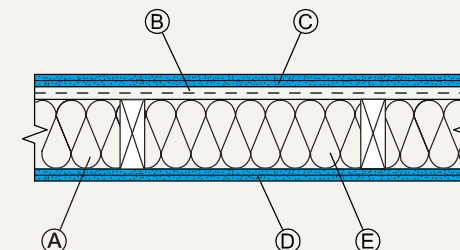
55

NOAL 21-0657

#### FIRE RATING

1 hr.

UL/cUL U309



### 24" o.c. - 2" x 6" - 1 hr fire rating

A Nominal 2"x6" wood studs 24" o.c.

#### ONE SIDE

B 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 8" o.c.

C 5" CertainTeed® Fiber Glass insulation or equivalent

#### OPPOSITE SIDE

D 5/8" CertainTeed® Type X applied with 1-1/4" type W screws 8" o.c.

#### STC RATING

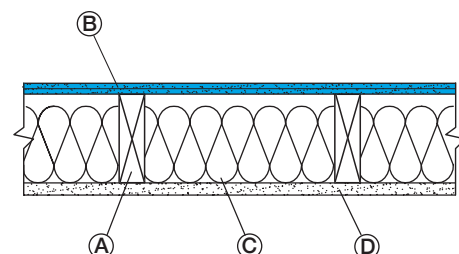
51

OL 18-1020

#### FIRE RATING

1 hr.

UL/cUL U309



**NOTE:** SilentFX® QuickCut™ drywall panels can be used as either the base or face layer in a multi-layer system without affecting the STC rating. Equivalent fiber glass insulations may be substituted for CertainTeed Insulation products.



## 5/8" SILENTFX® QUICKCUT™ - WOOD STUD SYSTEMS

### 24" o.c. - 2" x 6" - 1 hr fire rating

**A** Nominal 2"x6" wood studs 24" o.c.

#### ONE SIDE

**B** Face layer 5/8" SilentFX QuickCut Type X applied with 1-5/8" 8" o.c.

**C** Base layer 1/2" plywood applied with nails 4" o.c.

**D** 6-1/4" CertainTeed® Fiber Glass Insulation or equivalent

#### OPPOSITE SIDE

**E** Face layer 5/8" CertainTeed® Type X applied with 1-5/8" type W screws 8" o.c.

**F** Base layer 1/2" plywood applied with nails 4" o.c. perimeter and 12" o.c. field

#### STC RATING

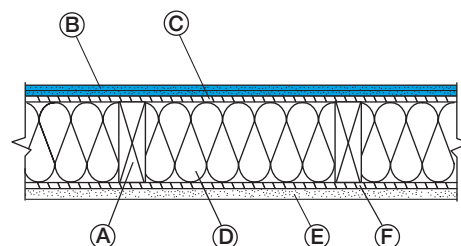
52

NOAL 20-1004

#### FIRE RATING

1 hr.

UL/cUL U309



## 5/8" SILENTFX® QUICKCUT™ - WOOD STUD CHASE WALLS

### 16" o.c. - 2" x 4" - 1 hr fire rating

**A** Double row nominal 2"x4" wood studs on separate plates, 16" o.c. with 1" gap.

#### ONE SIDE

**B** 5/8" SilentFX QuickCut Type X applied with 1-1/4" type W screws 8" o.c.

#### OPPOSITE SIDE

**C** 5/8" CertainTeed® Type X applied with 1-1/4" type W screws 12" 8" o.c. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

#### STC RATING

60

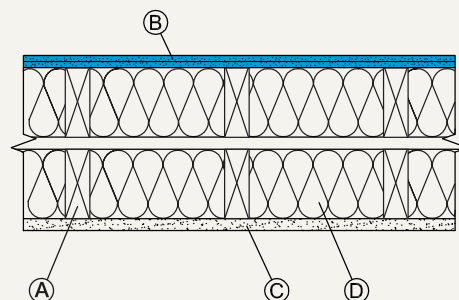
OL 19-0718

#### FIRE RATING

1 hr.

UL/cUL V432

ULC W313



## 1/2" SILENTFX® QUICKCUT™ - STEEL STUD SYSTEMS

### 24" o.c.

**A** 3-5/8" 25 EQ (15 mil) steel studs 24" o.c.

#### ONE SIDE

**B** 1/2" SilentFX QuickCut applied with 1" type S screws 12" o.c.

#### OPPOSITE SIDE

**C** 1/2" Easi-Lite® drywall applied with 1" type S screws 12" o.c. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

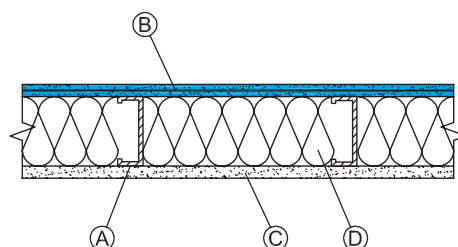
#### STC RATING

51

NOAL 17-1206

#### FIRE RATING

N/A



## 5/8" SILENTFX® QUICKCUT™ - STEEL STUD SYSTEMS

### 25 EQ (15 mil) 24" o.c. - 1 hr fire rating

**A** 3-5/8" 25 EQ (15 mil) steel studs 24" o.c.

#### ONE SIDE

**B** 5/8" SilentFX QuickCut Type X applied with 1" type S screws 8" o.c. and 12" o.c. top and bottom of wall.

#### OPPOSITE SIDE

**C** 5/8" CertainTeed® Type X applied with 1" type S screws 8" o.c. and 12" o.c. top and bottom of wall. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

#### STC RATING

55

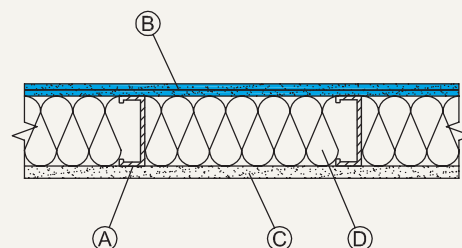
OL 18-0804

#### FIRE RATING

1 hr.

UL/cUL V450,

V486



## 5/8" SILENTFX® QUICKCUT™ – STEEL STUD SYSTEMS

### 25 EQ (15 mil) 24" o.c. – 2 hr fire rating

**A** 3-5/8" 25 EQ (15 mil) steel studs 24" o.c.

#### ONE SIDE

**B** Face layer 5/8" SilentFX QuickCut Type X applied with 1-5/8" type S screws 12" o.c.

**C** Base layer 5/8" CertainTeed® Type X applied with 1" type S screws 12" o.c.

#### OPPOSITE SIDE

**D** Base layer 5/8" CertainTeed® Type X applied with 1" type S screws 12" o.c.

**E** Face layer 5/8" CertainTeed® Type X applied with 1-5/8" type S screws 12" o.c. All joints staggered.

**F** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

#### STC RATING

60

OL 17-0203

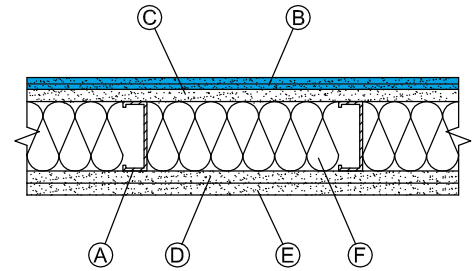
#### FIRE RATING

2 hr.

UL/cUL U411,

V450, V486

ULC W404



### 25 ga. (18 mil) 24" o.c. – 1 hr fire rating

**A** 3-5/8" 25 ga. (18 mil) steel studs 24" o.c.

#### ONE SIDE

**B** 5/8" SilentFX QuickCut Type X applied with 1" type S screws 8" o.c. perimeter and 12" o.c. field

#### OPPOSITE SIDE

**C** 5/8" CertainTeed® Type X applied with 1" type S screws 8" o.c. perimeter and 12" o.c. field. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

#### STC RATING

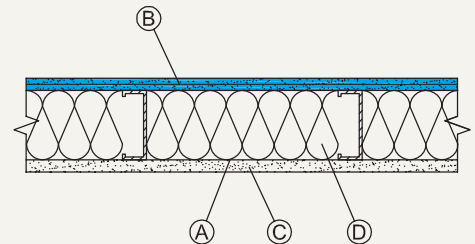
55

OL 19-0719

#### FIRE RATING

1 hr.

UL/cUL U465



**A** 3-5/8" 25 ga. (18 mil) steel studs 24" o.c.

#### ONE SIDE

**B** Base layer 5/8" CertainTeed® Type X applied with 1" type S screws 16" o.c.

**C** Face layer 5/8" SilentFX QuickCut Type X applied with 1-5/8" type S screws 16" o.c.

#### OPPOSITE SIDE

**D** 5/8" CertainTeed® Type X applied with 1" type S screws 16" o.c. All joints staggered.

**E** 5/8" CertainTeed® Type X applied with 1-5/8" type S screws 16" o.c.

**F** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

#### STC RATING

58

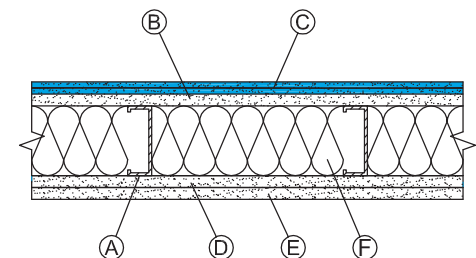
OL 18-1239

#### FIRE RATING

1 hr.

UL/cUL U465,

V450, V486



### 20 EQ (18 mil) 16" o.c. – 1 hr fire rating

**A** 3-5/8" 20 EQ (18 mil) steel studs 16" o.c.

#### ONE SIDE

**B** 5/8" SilentFX QuickCut Type X applied with 1" type S screws 8" o.c. perimeter and 12" o.c. field

#### OPPOSITE SIDE

**C** 5/8" CertainTeed® Type X applied with 1" type S screws 8" o.c. perimeter and 12" o.c. field

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent

#### STC RATING

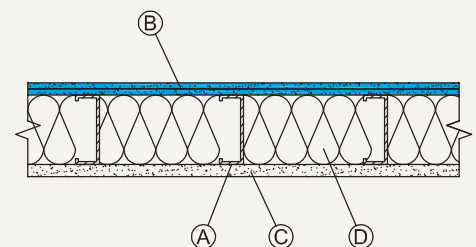
47

NOAL 21-0655

#### FIRE RATING

1 hr.

UL/cUL U465



**NOTE:** SilentFX® QuickCut™ drywall panels can be used as either the base or face layer in a multi-layer system without affecting the STC rating. Equivalent fiber glass insulations may be substituted for CertainTeed Insulation products.



## 5/8" (15.9 mm) SILENTFX® QUICKCUT™ - STEEL STUD SYSTEMS

### 20 EQ (18 mil) 24" o.c. - 1 hr fire rating

**A** 3-5/8" 20 EQ (18 mil) steel studs 24" o.c.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X applied with 1" type S screws 8" o.c. perimeter and 12" o.c. field

**OPPOSITE SIDE**

**C** 5/8" CertainTeed® Type X applied with 1" type S screws 8" o.c. perimeter and 12" o.c. field

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent

**STC RATING**

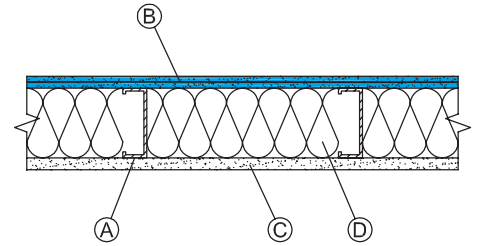
52

NOAL 21-0652

**FIRE RATING**

1 hr.

UL/cUL U465



**A** 3-5/8" 20 EQ (18 mil) steel studs 24" o.c.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X applied with 1" type S screws 8" o.c. perimeter and 12" o.c. field

**OPPOSITE SIDE**

**C** 5/8" SilentFX QuickCut applied with 1" type S screws 8" o.c. perimeter and 12" o.c. field

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent

**STC RATING**

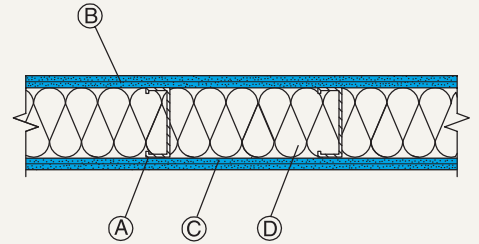
55

NOAL 21-0653

**FIRE RATING**

1 hr.

UL/cUL U465



**A** 3-5/8" 20 EQ (18 mil) steel studs 24" o.c.

**ONE SIDE**

**B** 5/8" CertainTeed® Type X applied with 1" type S screws 8" o.c. perimeter and 12" o.c. field

**OPPOSITE SIDE**

**C** Resilient channel 24" o.c.

**D** 5/8" SilentFX QuickCut applied with 1" type S screws 8" o.c.

**E** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent

**STC RATING**

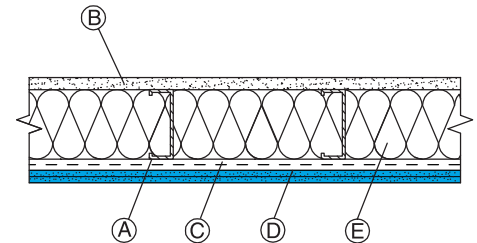
55

NOAL 21-0654

**FIRE RATING**

1 hr.

UL/cUL U465



### 20 ga (33 mil) 16" o.c. - 1 hr fire rating

**A** 3-5/8" 20 ga. (33 mil) steel studs 16" o.c.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X applied with 1" type S-12 screws 12" o.c.

**OPPOSITE SIDE**

**C** 5/8" CertainTeed® Type X applied with 1" type S-12 screws 12" o.c. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

**STC RATING**

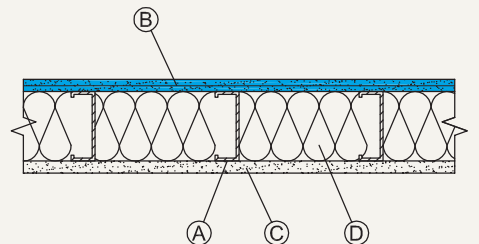
51

OL 17-0302

**FIRE RATING**

1 hr.

UL/cUL U425



**A** 3-5/8" 20 ga. (33 mil) steel studs 16" o.c.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X applied with 1" type S-12 screws 12" o.c.

**OPPOSITE SIDE**

**C** 5/8" SilentFX QuickCut Type X applied with 1" type S-12 screws 12" o.c. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

**STC RATING**

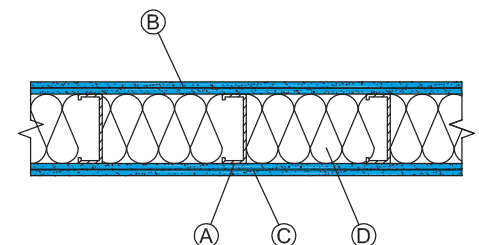
56

OL 17-0301

**FIRE RATING**

1 hr.

UL/cUL U425



## 5/8" SILENTFX® QUICKCUT™ – STEEL STUD SYSTEMS

### 20 ga (33 mil) 16" o.c. – 1 hr fire rating

**A** 6" 20 ga. (33 mil) steel studs 16" o.c.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X applied with 1" type S-12 screws 12" o.c.

**OPPOSITE SIDE**

**C** 5/8" SilentFX QuickCut Type X applied with 1" type S-12 screws 12" o.c. All joints staggered.

**D** 6" CertainTeed® Fiber Glass Insulation or equivalent.

**STC RATING**

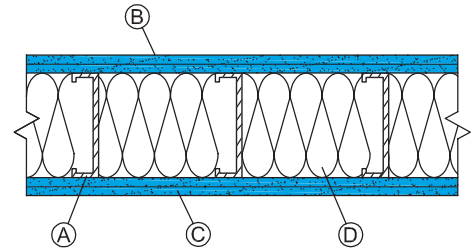
56

OL 17-0305

**FIRE RATING**

1 hr.

UL/cUL U425



**A** 6" 20 ga. (33 mil) steel studs 16" o.c.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X with 1" type S-12 screws 12" o.c.

**OPPOSITE SIDE**

**C** Resilient channel 24" o.c.

**D** 5/8" SilentFX QuickCut Type X applied with 1" type S screws 12" o.c. All joints staggered.

**E** 5" CertainTeed® Fiber Glass Insulation or equivalent.

**STC RATING**

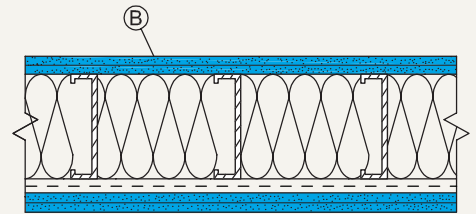
60

OL 18-1226

**FIRE RATING**

1 hr.

UL/cUL U425



### 20 ga (33 mil) 16" o.c. – 2 hr fire rating

**A** 3-5/8" 20 ga. (33 mil) steel studs 16" o.c.

**ONE SIDE**

**B** Base layer 5/8" SilentFX QuickCut Type X applied with 1" type S-12 screws 12" o.c.

**C** Face layer 5/8" CertainTeed® Type X applied with 1-5/8" type S-12 screws 12" o.c.

**OPPOSITE SIDE**

**D** Base layer 5/8" CertainTeed® Type X applied with 1" type S-12 screws 12" o.c.

**E** Face layer 5/8" CertainTeed® Type X applied with 1-5/8" type S-12 screws 12" o.c. All joints staggered.

**F** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

**STC RATING**

58

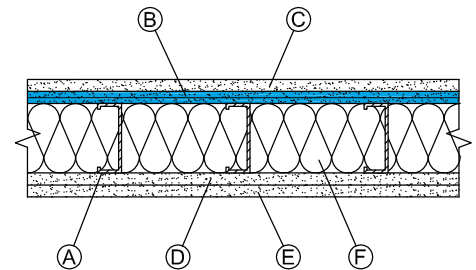
OL 17-0303

**FIRE RATING**

2 hr.

UL/cUL U411,  
U425

ULC W404



### 20 ga (33 mil) 24" o.c. – 1 hr fire rating

**A** 3-5/8" 20 ga. (33 mil) steel studs 24" o.c.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X applied with 1" type S-12 screws 12" o.c.

**OPPOSITE SIDE**

**C** 5/8" CertainTeed® Type X applied with 1" type S-12 screws 12" o.c. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

**STC RATING**

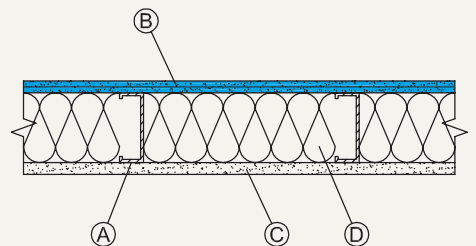
56

OL 17-0229

**FIRE RATING**

1 hr.

UL/cUL U425



**NOTE:** SilentFX® QuickCut™ drywall panels can be used as either the base or face layer in a multi-layer system without affecting the STC rating. Equivalent fiber glass insulations may be substituted for CertainTeed Insulation products.

## 5/8" SILENTFX® QUICKCUT™ - STEEL STUD SYSTEMS

### 20 ga (33 mil) 24" o.c. - 1 hr fire rating

**A** 3-5/8" 20 ga. (33 mil) steel studs 24" o.c.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X applied with 1" type S-12 screws 12" o.c.

**OPPOSITE SIDE**

**C** 5/8" SilentFX QuickCut Type X applied with 1" type S-12 screws 12" o.c. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

**STC RATING**

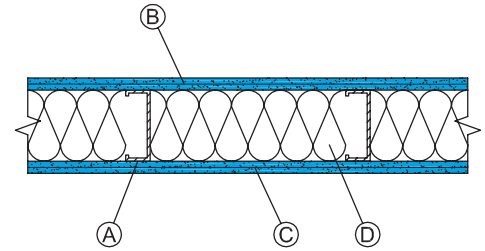
58

OL 17-0228

**FIRE RATING**

1 hr.

UL/cUL U425



### 16 ga (54 mil) 16" o.c. - 1 hr fire rating

**A** 3-5/8" 16 ga. (54 mil) steel studs 16" o.c.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X applied with 1-1/4" type S-12 screws 12" o.c.

**OPPOSITE SIDE**

**C** 5/8" CertainTeed® Type X applied with 1-1/4" type S-12 screws 12" o.c. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

**STC RATING**

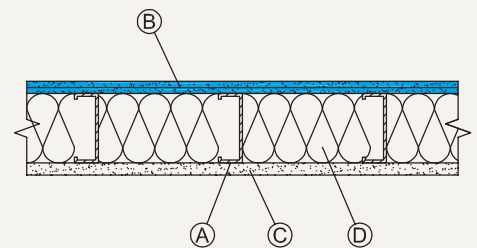
48

OL 17-0324

**FIRE RATING**

1 hr.

UL/cUL U425



**A** 4" 16 ga. (54 mil) steel studs 16" o.c.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X with 1-1/4" type S-12 screws 12" o.c.

**OPPOSITE SIDE**

**C** 5/8" CertainTeed® Type X applied with 1-1/4" type S-12 screws 12" o.c. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

**STC RATING**

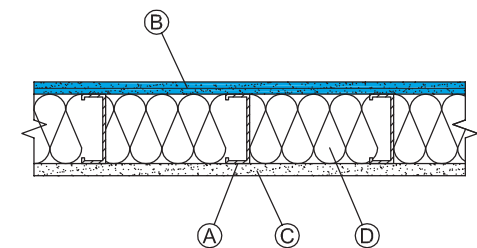
50

OL 17-0231

**FIRE RATING**

1 hr.

UL/cUL U425



**A** 4" 16 ga. (54 mil) steel studs 16" o.c.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X applied with 1-1/4" type S-12 screws 12" o.c.

**OPPOSITE SIDE**

**C** 5/8" SilentFX QuickCut applied with 1-1/4" type S-12 screws 12" o.c. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

**STC RATING**

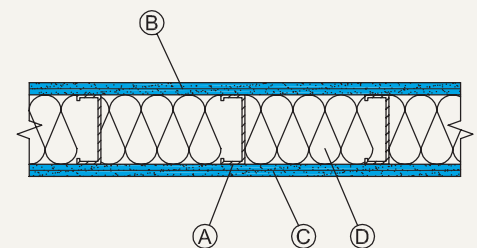
52

OL 17-0224

**FIRE RATING**

1 hr.

UL/cUL U425



**A** 6" 16 ga. (54 mil) steel studs 16" o.c.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X applied with 1-1/4" type S-12 screws 12" o.c.

**OPPOSITE SIDE**

**C** 5/8" CertainTeed® Type X applied with 1-1/4" type S-12 screws 12" o.c. All joints staggered.

**D** 6" CertainTeed® Fiber Glass Insulation or equivalent.

**STC RATING**

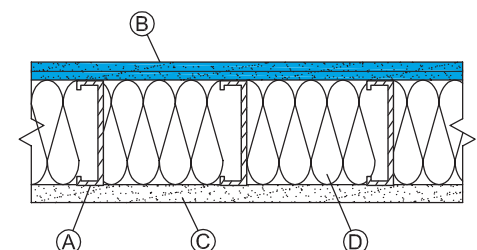
52

OL 17-0321

**FIRE RATING**

1 hr.

UL/cUL U25





## 5/8" SILENTFX® QUICKCUT™ - STEEL STUD SYSTEMS

### 16 ga (54 mil) 16" o.c. - 1 hr fire rating

A 3-5/8" 16 ga. (54 mil) steel studs 16" o.c.

#### ONE SIDE

B Resilient channel 24" o.c.

C 5/8" SilentFX QuickCut Type X with 1" type S screws 12" o.c.

#### OPPOSITE SIDE

D 5/8" CertainTeed® Type X applied with 1-1/4" type S-12 screws 12" o.c. All joints staggered.

E 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

#### STC RATING

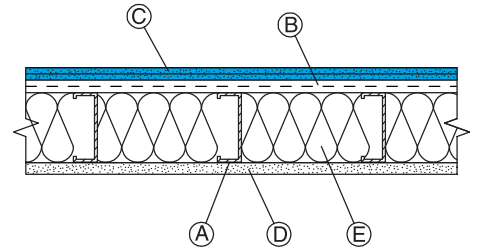
53

OL 17-0325

#### FIRE RATING

1 hr.

UL/cUL U425



A 6" 16 ga. (53 mil) steel studs 16" o.c.

#### ONE SIDE

B 5/8" SilentFX QuickCut Type X applied with 1-1/4" type S-12 screws 12" o.c.

#### OPPOSITE SIDE

C 5/8" SilentFX QuickCut Type X applied with 1-1/4" type S-12 screws 12" o.c. All joints staggered.

D 6" CertainTeed® Fiber Glass Insulation or equivalent.

#### STC RATING

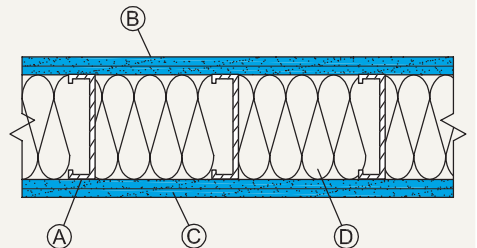
56

OL 17-0322

#### FIRE RATING

1 hr.

UL/cUL U425



### 16 ga (54 mil) 16" o.c. - 2 hr fire rating

A 4" 16 ga (54 mil) steel studs 16" o.c.

#### ONE SIDE

B Base layer 5/8" SilentFX QuickCut Type X applied with 1" type S-12 screws 16" o.c.

C Face layer 5/8" Extreme Abuse Type X applied with 1-5/8" type S-12 screws 12" o.c. perimeter and 16" o.c. field

#### OPPOSITE SIDE

D Base layer 5/8" SilentFX QuickCut Type X applied with 1" type S-12 screws 16" o.c.

E Face layer 5/8" Extreme Abuse Type X applied with 1-5/8" type S-12 screws 12" o.c. perimeter and 16" o.c. field

F 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent

#### STC RATING

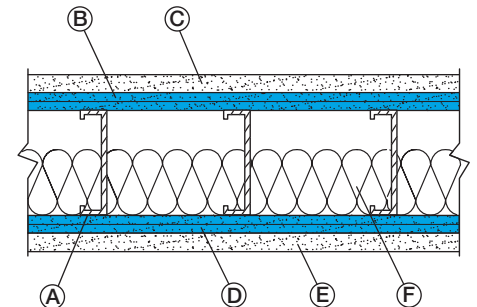
51

NOAL 18-0805

#### FIRE RATING

2hr.

UL/cUL U411



### 16 ga (54 mil) 24" o.c. - 1 hr fire rating

A 6" 16 ga. (54 mil) steel studs 24" o.c.

#### ONE SIDE

B 5/8" SilentFX QuickCut Type X applied with 1" type S-12 screws 12" o.c.

#### OPPOSITE SIDE

C Resilient channel 24" o.c.

D 5/8" SilentFX QuickCut Type X applied with 1" type S screws 12" o.c.

E 6" CertainTeed® Fiber Glass Insulation or equivalent

#### STC RATING

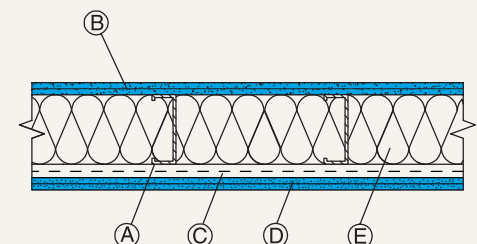
60

NOAL 18-0323

#### FIRE RATING

1 hr.

UL/cUL U425



**NOTE:** SilentFX® QuickCut™ drywall panels can be used as either the base or face layer in a multi-layer system without affecting the STC rating. Equivalent fiber glass insulations may be substituted for CertainTeed Insulation products.

## 5/8" SILENTFX® QUICKCUT™ - STEEL STUD SYSTEMS

### 14 ga (68 mil) 16" o.c. - 1 hr fire rating

**A** 3-5/8" 14 ga. (68 mil) steel studs 16" o.c.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X applied with 1-1/4" type S-12 screws 12" o.c.

**OPPOSITE SIDE**

**C** Base layer 5/8" CertainTeed® Type X applied with 1" type S-12 screws 12" o.c. All joints staggered.

**D** Face layer 5/8" CertainTeed® Type X applied with 1-5/8" type S-12 screws 12"

**E** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent.

**STC RATING**

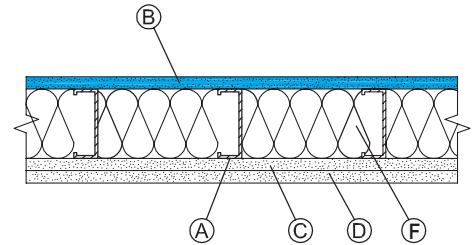
44

NOAL 18-0322

**FIRE RATING**

1 hr.

UL/cUL U425



## 5/8" SILENTFX® QUICKCUT™ - STEEL STUD CHASE WALLS

### 25 EQ (15 mil) 24" o.c. - 1 hr fire rating

**A** Double row 3-5/8" 25 EQ (15 mil) steel studs 24" o.c., in separate tracks with a 1" gap.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X applied with 1" type S screws 8" o.c.

**OPPOSITE SIDE**

**C** 5/8" CertainTeed® Type X applied with 1" type S screws 8" o.c. All joints staggered.

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent, both rows.

**STC RATING**

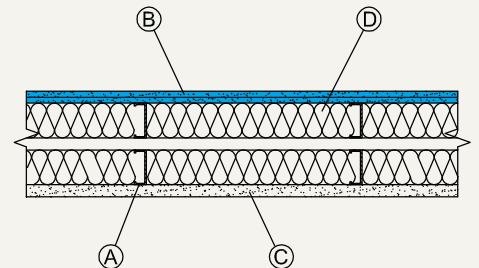
60

NOAL 17-1205

**FIRE RATING**

1 hr.

UL/cUL U420



### 25 ga. (18 mil) 24" o.c. - 1 hr fire rating

**A** Double row 2-1/2" 25 ga. (18 mil) steel studs 24" o.c., in separate tracks with a 1" gap.

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X applied with 1" type S screws 8" o.c. perimeter and 12" o.c. field

**OPPOSITE SIDE**

**C** 5/8" CertainTeed® Type X applied with 1" type S screws 8" o.c. perimeter and 12" o.c. field. All joints staggered.

**D** 2-1/2" CertainTeed® Fiber Glass Insulation or equivalent, both rows.

**STC RATING**

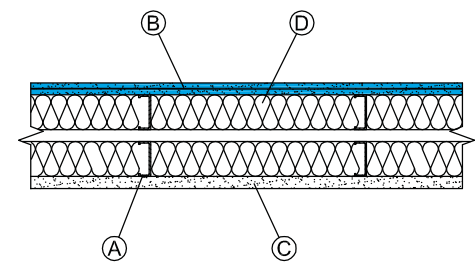
61

OL 18-1003

**FIRE RATING**

1 hr.

UL/cUL U420



### 16 ga (54 mil) 24" o.c. - 1 hr fire rating

**A** Double row 3-5/8" 16 ga. (54 mil) steel studs 16" o.c., in separate tracks with a 1" gap

**ONE SIDE**

**B** 5/8" SilentFX QuickCut Type X applied with 1-1/4" type S-12 screws 8" o.c. perimeter and 12" o.c. field

**OPPOSITE SIDE**

**C** 5/8" SilentFX QuickCut Type X applied with 1-1/4" type S-12 screws 8" o.c. perimeter and 12" o.c. field

**D** 3-1/2" CertainTeed® Fiber Glass Insulation or equivalent, both rows

**STC RATING**

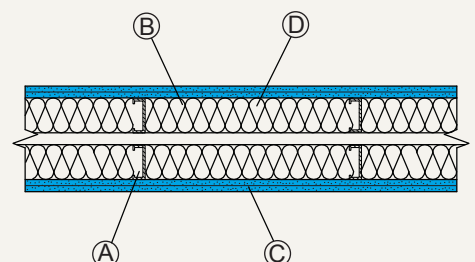
64

NOAL 21-0454

**FIRE RATING**

1 hr.

UL/cUL U420



## SOUND RATING FLOOR-CEILING ASSEMBLY DESCRIPTION

### BASE ASSEMBLY

#### ONE SIDE

- A** 15/32" plywood perpendicular to the joists with joints staggered. Attached with 8d nails 8" o.c.
- B** Subflooring Nom. 19/32" T&G plywood perpendicular to joists with end joints staggered and secured to joists with construction adhesive and 6D ring shank nails or staples 12" o.c.
- C** Wood I-joists 9-1/2" deep wood I-joists spaced 24" o.c.
- D** Insulation 9-1/2" Optima® Loose Fill Insulation

#### OPPOSITE SIDE

- E** Resilient channels installed perpendicular to I-joists at 12" o.c.
- F** Base layer 5/8" SilentFX QuickCut Type X applied perpendicular to resilient channel with 1" type S screws 8" o.c.
- G** Face layer 1/2" CertainTeed® Type C applied perpendicular to the resilient channel with 1-5/8" type S screws 8" o.c.

### STC RATING

54 (NGC 5017060)

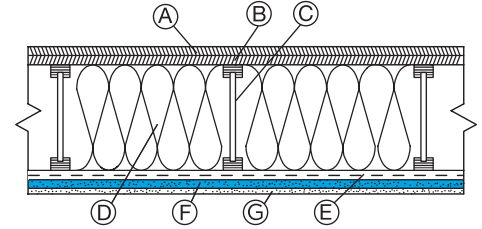
### IIC RATING

46 (NGC 7017091)

### FIRE RATING

1 hr.

UL/cUL M535



## SOUND RATING FLOOR-CEILING ASSEMBLY DESCRIPTION

**STC**  
(TEST NO.)

**IIC**  
(TEST NO.)

Base Assembly + finished floor of 3/4" Gypsum  
Concrete floor topping over sound mat with Carpet  
and Pad

60 (NGC 5017069)

78 (NGC 7017110)

Base Assembly + finished floor of 3/4" Gypsum  
Concrete floor topping over sound mat with 3/16"  
Luxury Vinyl Tile (LVT)

60 (NGC 5017070)

57 (NGC 7017111)

Base Assembly + finished floor of 3/4" Gypsum  
Concrete floor topping over sound mat with 3/16"  
Luxury Vinyl Tile (LVT) over underlayment

62 (NGC 5017071)

58 (NGC 7017112)

Base Assembly + finished floor of 3/4" Gypsum  
Concrete floor topping over sound mat with 3/8"  
Luxury Vinyl Tile (LVT) over Engineered Hardwood

60 (NGC 5017072)

58 (NGC 7017113)

**NOTE:** SilentFX® QuickCut™ drywall panels can be used as either the base or face layer in a multi-layer system without affecting the STC rating. Equivalent fiber glass insulations may be substituted for CertainTeed Insulation products.



# CertainTeed builds better environments

CertainTeed has the unique advantage of offering some of the most comprehensive interior building solutions in the industry.

Our drywall systems, along with our full building materials portfolio, are created with the goal of improving occupant health and well-being in all the places where we live, learn, work, heal, and play. With CertainTeed, you'll be able to make any space a better home, quickly and efficiently.



## SilentFX® QuickCut™

SilentFX® QuickCut™ Noise-Reducing Gypsum Panel significantly improves sound attenuation and is ideal for systems requiring high STC performance. M2Tech® provides added moisture and mold resistance.



## M2Tech®

M2Tech® Moisture and Mold Resistant Gypsum Panel features a unique technology that combines moisture and mold resistance and is specially engineered to provide enhanced protection against mold growth.



## Extreme Abuse Extreme Impact

Extreme Abuse and Extreme Impact provide increased protection and durability for areas subjected to repeat wear and tear. Available with M2Tech® for added mold resistance.



## GlasRoc® Tile Backer

GlasRoc® Tile Backer, part of the GlasRoc® family, is the superior tile substrate for walls, ceilings, countertops and other moisture prone areas.



## Easi-Lite® 30

Easi-Lite® Lightweight Gypsum Panel is up to 30% lighter than standard gypsum panels. Easi-Lite®, as well as other CertainTeed paper faced gypsum panels, are made of up to 99% recycled paper.



## GlasRoc®

The GlasRoc® family of products combines re-inforcing Glass mats, fully embedded into a water-resistant gypsum core, positioned beneath a paperless polymer-modified gypsum surface, and a protective acrylic coating on the exterior face. Available in exterior sheathing, shaftliner and interior gypsum panel.



## FireLITE®

CertainTeed FireLITE Type X Lightweight Drywall Panel is an interior drywall panel consisting of a non-combustible, fire-resistant Type X gypsum core and is more than 10% lighter vs. standard 5/8" type X Drywall Panels.



Most CertainTeed panel products are available with a 5/8" (15.7 mm) Type X, fire-resistant, gypsum core.



**CertainTeed provides innovative building products and systems for commercial, institutional and residential designs. With over 80 years of experience manufacturing and marketing in North America, CertainTeed Gypsum is committed to focusing on quality, service, and safety to provide a superior experience to its customers.**

#### TEST STANDARDS

Fire resistance and sound tests are conducted in accordance with ASTM E119 (UL 263, CAN/ULC-S101) and ASTM E90, respectively, and no warranty is made other than conformance to the standard under which the assembly was tested. Minor discrepancies may exist in the values of ratings, attributable to changes in materials and standards, as well as differences between testing facilities. Assemblies are listed as “combustible” (wood framing) and “noncombustible” (concrete and/or steel construction).

#### COMBUSTIBLE ASSEMBLIES

These include all wood stud walls, wood joist or truss ceilings and floors consisting of tongue-and-groove, plywood, or OSB sub-flooring and finish flooring or a poured gypsum floor underlayment over wood structural panel sub-flooring. Floor assembly may be used over the wood joists with ceilings as detailed in GA and UL/cUL/ULC references.

#### NONCOMBUSTIBLE ASSEMBLIES

These include steel studs, bar joist ceilings with poured concrete floors over metal lath or steel. Also included are steel beams and steel columns. Ceilings for all 1-hour, 1 1/2-hour, and 2-hour noncombustible floor and ceiling assemblies with 2" (51 mm) or 2 1/2" (63.5 mm) concrete floor or metal lath over steel bar joists, unless otherwise specified, may be directly attached or suspended as detailed in GA and UL/cUL/ULC references.

#### FIRE RESISTANCE

CertainTeed® Type X, CertainTeed® Type C, M2Tech® Type X, SilentFX® QuickCut™ Type X, FireLITE® Type X, GlasRoc® Tile Backer Type X, GlasRoc® Shaftliner Type X, GlasRoc® Interior Type X and GlasRoc® Sheathing Type X products are Classified by Underwriters Laboratories Inc. and Listed by Underwriters Laboratories of Canada and carries the UL/cUL/ULC Label for 1-, 2-, 3- and 4-hour Fire Resistance in various designs. Underwriters Laboratories Inc. tests have proven that joint finishing is not required for the rating in certain assemblies using Type X and Type C products. For fire resistance ratings, refer to the Gypsum Association GA-600, *Fire Resistance and Sound Control Design Manual*, and the UL, cUL and ULC Fire Resistance Directories.



## **SURFACE BURNING CHARACTERISTICS**

CertainTeed® Gypsum Panels have Flame Spread ratings of 0 to 15 and Smoke Developed ratings of 0 to 5, and GlasRoc® products have Flame Spread Ratings of 0 and Smoke Developed Ratings of 0 in accordance with ASTM E84 (UL 723, CAN/ULC-S102).

## **SOUND CHARACTERISTICS**

The degree to which assemblies block the passage of sound is measured by Sound Transmission Class (STC) per ASTM E90 and E413, which is a single figure rating derived from the sound transmission loss values over a range of sound frequencies. All sound-rated assemblies require acoustical sealant at assembly perimeters and penetrations, and other locations

where sound leaks may develop.

For sound characteristics, refer to the Gypsum Association GA-600, *Fire Resistance and Sound Control Design Manual*.

## **STORAGE**

Gypsum panels must be stored in an area that protects it from adverse weather conditions, condensation and other forms of moisture and direct sunlight. Panels should be neatly stacked flat with care taken to prevent sagging or damage to edges, ends, and surfaces. Storing panels lengthwise leaning against the framing is not recommended. Panels should be carried, not dragged, to place of installation to prevent damaging finished edges. Refer to the Gypsum Association GA-801, *Handling and Storage of Gypsum Panel Products*.

## **MORE INFORMATION**

Consult the Gypsum Association GA-216, *Recommended Specifications for the Application and Finishing of Gypsum Panel Products*, for detailed application and finishing procedures. For full details of fire and sound ratings, consult test references listed for system assemblies.



# SilentFX Quickcut



**Reducing noise is good  
for business.**

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