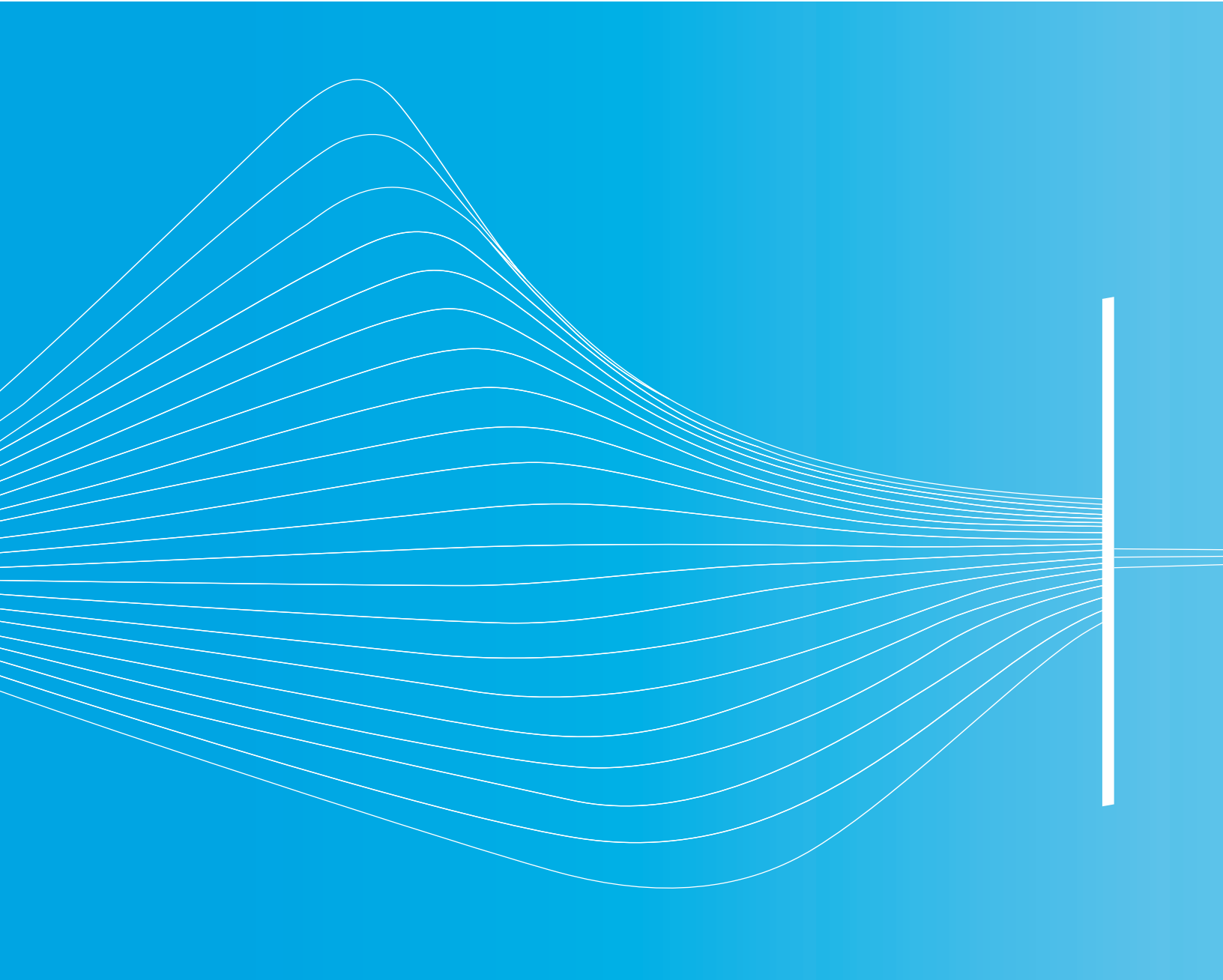


CertainTeed

silentFX™

Noise-Reducing Gypsum Board



CertainTeed
SAINT-GOBAIN

SilentFX™ Noise-Reducing Gypsum Board

For the best in acoustic management.

CertainTeed's SilentFX™ is a noise-reducing gypsum board specifically designed for systems requiring high STC ratings.

SilentFX™ features Green Glue®, a viscoelastic polymer that dampens sound energy, between two gypsum boards with specially formulated, dense cores; these boards are enclosed in 100% recycled moisture and mold resistant face and back papers. The result of this combination is improved sound attenuation for high STC systems.

SilentFX™ also features M2Tech® technology, which contributes to indoor air quality by providing enhanced moisture and mold resistance.

SILENTFX™ NOISE-REDUCING GYPSUM BOARD

ENHANCED ACOUSTICAL PERFORMANCE

STC ratings of 50 and greater

ENHANCED FIRE RESISTANCE

Available in 5/8" Type X, UL listed

MOLD RESISTANCE

Best possible score per
ASTM D 3273

ABUSE RESISTANCE

Indentation: 1
Soft body: 1
Surface abrasion: 1

LOW-EMITTING MATERIAL

GREENGUARD for Children &
Schools™ Certified

HIGH-DENSITY CORE

Provides increased mass

FINISHES LIKE STANDARD GYPSUM BOARD



Sound Advantages

SilentFX™ is an excellent acoustic solution for meeting Sound Transmission Class (STC) specifications without complex techniques such as isolation clips or resilient channel. It can also help reduce material usage versus traditional gypsum systems that require high sound attenuation.

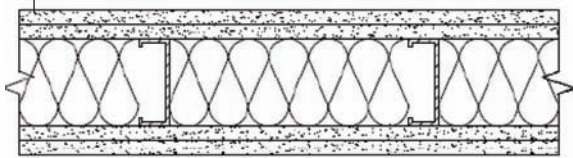
MORE RELIABLE THAN CLIPS AND CHANNELS

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™; thus providing more consistent acoustic performance. When used in systems with resilient channel, SilentFX™ can reduce the negative effect of short circuits.

SQUARE-FOOT SAVINGS

The high acoustic performance of SilentFX™ makes it possible to build effective noise-reducing walls with less material, gaining valuable 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.

DOUBLE LAYER CERTAINTEED 5/8" TYPE X

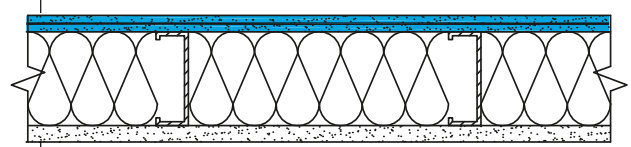


DOUBLE LAYER CERTAINTEED 5/8" TYPE X

Thickness: 6-1/8"

Sound test: STC 55

SINGLE LAYER SILENTFX™ 5/8" TYPE X



SINGLE LAYER CERTAINTEED 5/8" TYPE X

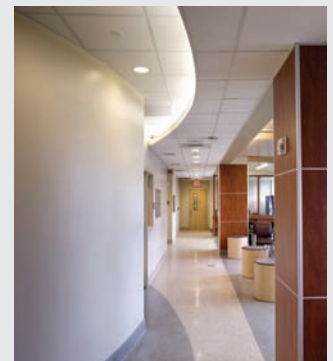
Thickness: 4-7/8"

Sound test: STC 57

CertainTeed's System Solutions

CertainTeed has the unique advantage of offering some of the most comprehensive interior building solutions in the industry. As a manufacturer of superior wall, ceiling and insulation products, we have the ability to design and optimize total wall and ceiling systems for the needs of specific architectural segments such as hospitals, schools, hotels and even residential applications.

Acoustic management is one building need that benefits heavily from this joint approach as CertainTeed products are designed to complement each other, working together to maximize noise reduction and sound absorption across a broad spectrum.





Adagio®
Fiberglass/Mineral Fiber Ceilings

silentFX

CertaPro™
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
Fiberglass Ceilings

Sustainable
Insulation™

silentFX

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. And background noise causes teachers to raise their voices, which results in vocal strain over time. SilentFX™ specifically reduces 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™

NoiseReducer®
Insulation

Green Glue®
Sealant

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™ enhances 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



silentFX[®]

CertaSpray[®]
Insulation

Green Glue[®]
Sealant

Never hear the neighbors.

In a home, good acoustics are even more important to ensure quality of life. SilentFX™ reduces noise between residential units to increase the sense of separation from neighbors that is necessary for comfort and privacy. Installed, noise-reducing SilentFX™ gypsum board 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

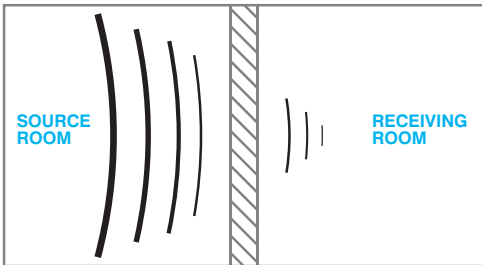
Acoustic Science

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™ Gypsum Board systems address these paths and through proper design and installation contribute to satisfactory sound isolation and privacy.

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™ Gypsum Board is engineered using the mass of two dense gypsum board 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.

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.

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 42
	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, 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.

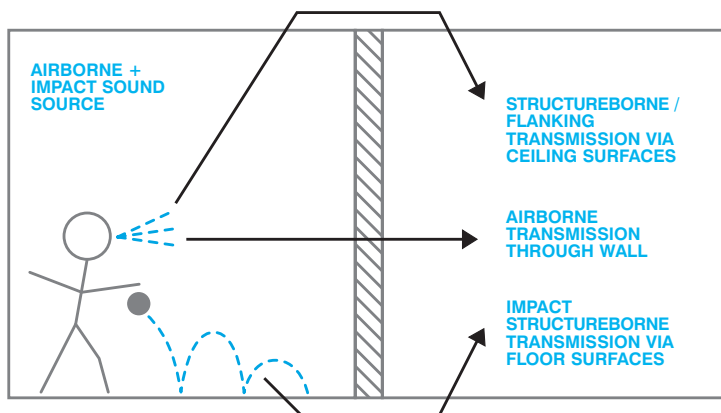
DECIBEL (dB) ▶

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.



	PERCEPTION OF SOUND PRESSURE	SOUND PRESSURE LEVEL (dB)
PAIN THRESHOLD		140
JET TAKE-OFF	INTOLERABLE	130
		120
ROCK CONCERT	DEAFENING	110
		100
STREET TRAFFIC	VERY LOUD	90
		80
PHONE RINGING	LOUD	70
TV / BUSY OFFICE		60
NORMAL CONVERSATION	MODERATE	50
		40
QUIET ROOM	FAINT	30
		20
CALM BREATHING	VERY FAINT	10
		0
HEARING THRESHOLD		0

Installation and Finishing

INSTALLATION

SilentFX™ Gypsum Board is installed following traditional methods of application and finishing of interior gypsum board products for both walls and ceilings.

- Plan SilentFX™ board layout to stagger joints from one side of the wall to the other.
- Install insulating batts (CertainTeed's thermal and acoustical fiber glass insulation or equivalent) in cavities.
- Use putty pads (tested per ASTM E 90) or acoustical sealant to seal electrical outlets.
- Install SilentFX™ in accordance with GA-216, "Application and Finishing of Gypsum Panels" (ASTM C 840).
- Allow a 1/4" (6 mm) gap around all wall perimeter edges.
- SilentFX™ boards are cut by deeply scoring from both sides and snapping, or using a hand or power saw.
- Cutting across 4' (1220 mm) width may require use of a hand or power saw.
- Seal the 1/4" (6 mm) perimeter gaps and wall penetrations per ASTM C 919 with acoustical sealant (Green Glue® Noiseproofing Sealant or equivalent).

FINISHING

SilentFX™ Gypsum Board may be finished, painted or wallpapered using conventional gypsum board techniques. The Gypsum Association publication GA-214, "Recommended Levels of Gypsum Board Finish," should be referenced when specifying the level of finishing desired.

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 2009 for Schools
 - IEQ Prerequisite 3 – Minimum Acoustical Performance
 - IEQ Credit 9 – Enhanced Acoustical Performance
- Green Guide for Health Care
 - EQ Credit 9.1 – Acoustic Environment
- International Green Construction Code (IgCC)
 - Section 807 – Acoustics

Review systems performance information to see how SilentFX™ systems can help contribute to these sustainable programs.

buildingresponsibly™

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.



SilentFX™ Fire and Acoustic Assemblies

1/2" [12.7 MM] SILENTFX™ – WOOD STUD SYSTEMS

A 2"x4" [38x89 mm] wood studs 16" [406 mm] o.c.

ONE SIDE

B 1/2" [12.7 mm] SilentFX™ applied with 1-1/4" [32 mm] type W screws 16" [406 mm] o.c.

OPPOSITE SIDE

C 1/2" [12.7 mm] CertainTeed Regular applied with 1-1/4" [32 mm] type W screws 16" [406 mm] o.c.
All joints staggered.

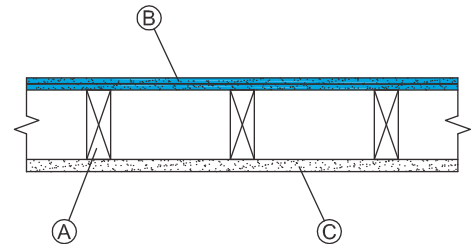
STC RATING

38

OL 11-0626

FIRE RATING

N/A



A 2"x4" [38x89 mm] wood studs 16" [406 mm] o.c.

ONE SIDE

B 1/2" [12.7 mm] SilentFX™ applied with 1-1/4" [32 mm] type W screws 16" [406 mm] o.c.

OPPOSITE SIDE

C 1/2" [12.7 mm] CertainTeed Regular applied with 1-1/4" [32 mm] type W screws 16" [406 mm] o.c.
All joints staggered.

D 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

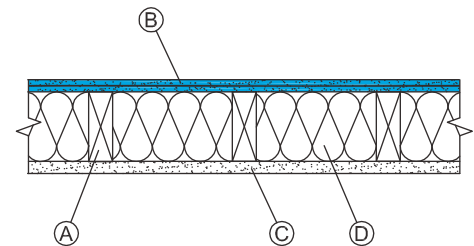
STC RATING

42

OL 11-0630

FIRE RATING

N/A



A 2"x4" [38x89 mm] wood studs 24" [610 mm] o.c.

ONE SIDE

B Base layer 1/2" [12.7 mm] CertainTeed Regular applied with 1-1/4" [32 mm] type W screws 16" [406 mm] o.c.

C Face layer 1/2" [12.7 mm] SilentFX™ applied with 1-5/8" [41 mm] type W screws 16" [406 mm] o.c.

OPPOSITE SIDE

D 1/2" [12.7 mm] CertainTeed Regular applied with 1-1/4" [32 mm] type W screws 16" [406 mm] o.c.
All joints staggered. No insulation in the cavity.

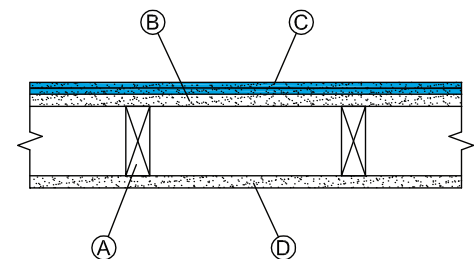
STC RATING

42

OL 10-0906

FIRE RATING

N/A



A 2"x4" [38x89 mm] wood studs 24" [610 mm] o.c.

ONE SIDE

B 1/2" [12.7 mm] SilentFX™ applied with 1-1/4" [32 mm] type W screws 16" [406 mm] o.c.

OPPOSITE SIDE

C 1/2" [12.7 mm] CertainTeed Regular applied with 1-1/4" [32 mm] type W screws 16" [406 mm] o.c.
All joints staggered.

D 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

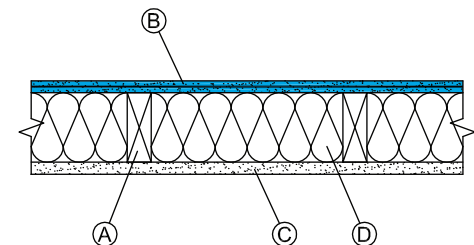
STC RATING

49

OL 10-0904

FIRE RATING

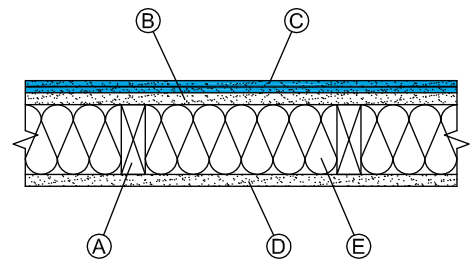
N/A



- A** 2"x4" [38x89 mm] wood studs 24" [610 mm] o.c.
- ONE SIDE**
- B** Base layer 5/8" [15.9 mm] CertainTeed Type X applied with 1-1/4" [32 mm] type W screws 12" [300 mm] o.c.
- C** Face layer 1/2" [12.7 mm] SilentFX™ applied with 1-5/8" [41 mm] type W screws 16" [406 mm] o.c.
- OPPOSITE SIDE**
- D** 5/8" [15.9 mm] CertainTeed Type X applied with 1-1/4" [32 mm] type W screws 12" [300 mm] o.c.
All joints staggered.
- E** 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING
50
OL 10-1021

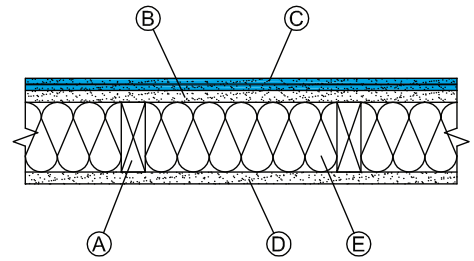
FIRE RATING
1 hr.
UL U309
GA WP 3510



- A** 2"x4" [38x89 mm] wood studs 24" [610 mm] o.c.
- ONE SIDE**
- B** Base layer 1/2" [12.7 mm] CertainTeed Regular applied with 1-1/4" [32 mm] type W screws 16" [406 mm] o.c.
- C** Face layer 1/2" [12.7 mm] SilentFX™ applied with 1-5/8" [41 mm] type W screws 16" [406 mm] o.c.
- OPPOSITE SIDE**
- D** 1/2" [12.7 mm] CertainTeed Regular applied with 1-1/4" [32 mm] type W screws 16" [406 mm] o.c.
All joints staggered.
- E** 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING
50
OL 10-0905

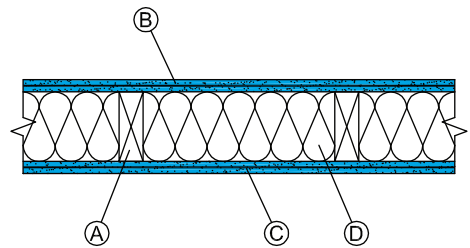
FIRE RATING
N/A



- A** 2"x4" [38x89 mm] wood studs 24" [610 mm] o.c.
- ONE SIDE**
- B** 1/2" [12.7 mm] SilentFX™ applied with 1-5/8" [41 mm] type W screws 16" [406 mm] o.c.
- OPPOSITE SIDE**
- C** 1/2" [12.7 mm] SilentFX™ applied with 1-5/8" [41 mm] type W screws 16" [406 mm] o.c.
All joints staggered.
- D** 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING
52
OL 10-0901

FIRE RATING
N/A

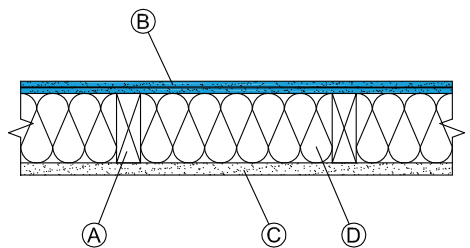


5/8" [15.9 MM] SILENTFX™ – WOOD STUD SYSTEMS

- A** 2"x4" [38x89 mm] wood studs 24" [610 mm] o.c.
- ONE SIDE**
- B** 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type W screws 12" [300 mm] o.c.
- OPPOSITE SIDE**
- C** 1/2" [12.7 mm] CertainTeed Regular applied with 1-1/4" [32 mm] type W screws 12" [300 mm] o.c.
All joints staggered.
- D** 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING
48
OL 10-0806

FIRE RATING
N/A



A 2"x4" [38x89 mm] wood studs 24" [610 mm] o.c.

ONE SIDE

B 5/8" [15.9 mm] SilentFX™ applied with 1-1/4" [32 mm] type W screws 12" [300 mm] o.c.

OPPOSITE SIDE

C 5/8" [15.9 mm] CertainTeed Type X applied with 1-1/4" [32 mm] type W screws 12" [300 mm] o.c.

All joints staggered.

D 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

51

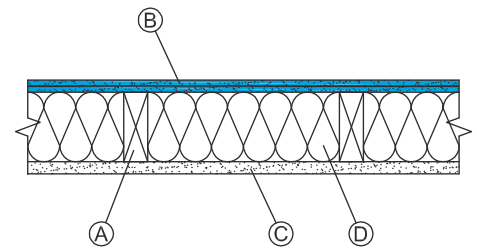
OL 11-0616

FIRE RATING

1 hr.

UL U309

GA WP 3243



A 2"x4" [38x89 mm] wood studs 24" [610 mm] o.c.

ONE SIDE

B Resilient channel 24" [610 mm] o.c.

C 5/8" [15.9 mm] SilentFX™ applied with 1" [25 mm] type S screws 12" [300 mm] o.c.

OPPOSITE SIDE

D 5/8" [15.9 mm] CertainTeed Type X applied with 1-5/8" [41 mm] type W screws 12" [300 mm] o.c.

All joints staggered.

E 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

56

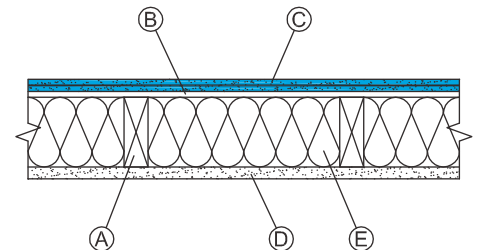
OL 11-0625

FIRE RATING

1 hr.

UL U309

GA WP 3243



A 2"x4" [38x89 mm] wood studs 24" [610 mm] o.c.

ONE SIDE

B Resilient channel 24" [610 mm] o.c.

C Base layer 5/8" [15.9 mm] SilentFX™ applied with 1" [25 mm] type S screws 12" [300 mm] o.c.

D Face layer 5/8" [15.9 mm] CertainTeed Type X applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.

OPPOSITE SIDE

E 5/8" [15.9 mm] CertainTeed Type X applied with 1-1/4" [32 mm] type W screws 12" [300 mm] o.c.

All joints staggered.

F 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

59

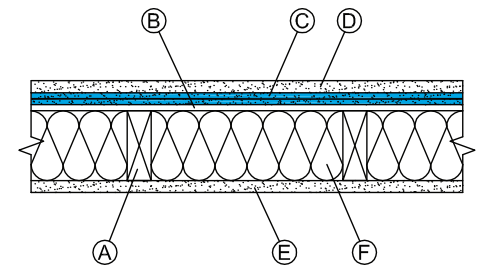
OL 10-1020

FIRE RATING

1 hr.

UL U305

GA WP 3514



A 2"x4" [38x89 mm] wood studs 16" [406 mm] o.c.

ONE SIDE

B Resilient channel 24" [610 mm] o.c.

C 5/8" [15.9 mm] SilentFX™ applied with 1" [25 mm] type S screws 12" [300 mm] o.c.

OPPOSITE SIDE

D 5/8" [15.9 mm] CertainTeed Type X applied with 1-1/4" [32 mm] type W screws 12" [300 mm] o.c.

All joints staggered.

E 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

51

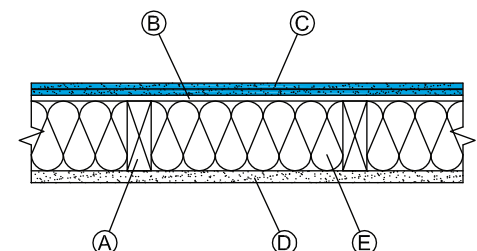
OL 10-1013

FIRE RATING

1 hr.

UL U305

GA WP 3514



A 2"x4" [38x89 mm] wood studs 16" [406 mm] o.c.

ONE SIDE

B Resilient channel 24" [610 mm] o.c.

C Base layer 5/8" [15.9 mm] SilentFX™ applied with 1" [25 mm] type S screws 12" [300 mm] o.c.

D Face layer 5/8" [15.9 mm] CertainTeed Type X applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.

OPPOSITE SIDE

E 5/8" [15.9 mm] CertainTeed Type X applied with 1-1/4" [32 mm] type W screws 12" [300 mm] o.c.
All joints staggered.

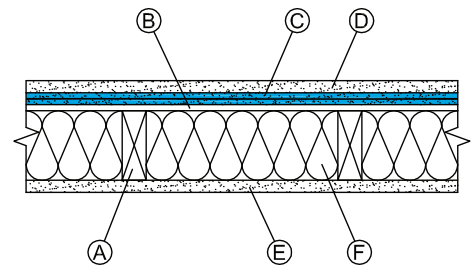
F 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

57
OL 10-1015

FIRE RATING

1 hr.
UL U305
GA WP 3514



A 2"x4" [38x89 mm] wood studs 24" [610 mm] o.c.

ONE SIDE

B Resilient channel 24" [610 mm] o.c.

C 5/8" [15.9 mm] SilentFX™ applied with 1" [25 mm] type S screws 12" [300 mm] o.c.

OPPOSITE SIDE

D 5/8" [15.9 mm] SilentFX™ applied with 1-1/4" [32 mm] type W screws 12" [300 mm] o.c.
All joints staggered.

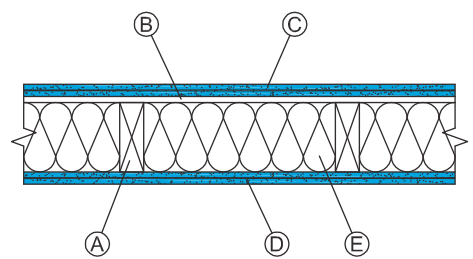
E 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

57
OL 11-0624

FIRE RATING

1 hr.
UL U309
GA WP 3243



A Staggered 2"x4" [38x89 mm] wood studs 24" [610 mm] on 6" [152 mm] plates, 16" [406 mm] o.c.

ONE SIDE

B 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type W screws 12" [300 mm] o.c.

OPPOSITE SIDE

C 5/8" [15.9 mm] CertainTeed Type X applied with 1-5/8" [41 mm] type W screws 12" [300 mm] o.c.
All joints staggered.

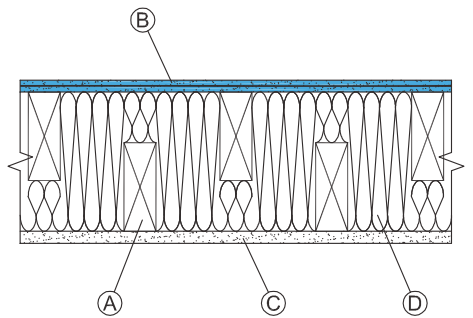
D 6" [152 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

56
OL 11-0634

FIRE RATING

1 hr.
UL U376



A Double row 2"x4" [38x89 mm] wood studs on separate plates, 16" [406 mm] o.c. with 1" [25 mm] gap.

ONE SIDE

B 5/8" [15.9 mm] SilentFX™ applied with 1-1/4" [32 mm] type W screws 12" [300 mm] o.c.

OPPOSITE SIDE

C 5/8" [15.9 mm] CertainTeed Type X applied with 1-1/4" [32 mm] type W screws 12" [300 mm] o.c.
All joints staggered.

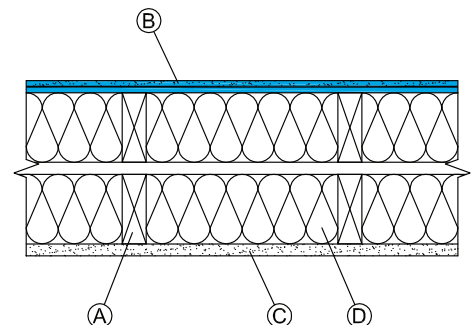
D 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

60
OL 10-1017

FIRE RATING

1 hr.
UL U305
GA WP 3514



A Double row 2"x4" [38x89 mm] wood studs on separate plates, 16" [406 mm] o.c. with 1" [25 mm] gap.

ONE SIDE

B Base layer 5/8" [15.9 mm] CertainTeed Type X applied with 1-1/4" [32 mm] type W screws 12" [300 mm] o.c.

C Face layer 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type W screws 12" [300 mm] o.c.

OPPOSITE SIDE

D 5/8" [15.9 mm] CertainTeed Type X applied with 1-1/4" [32 mm] type W screws 12" [300 mm] o.c.
All joints staggered.

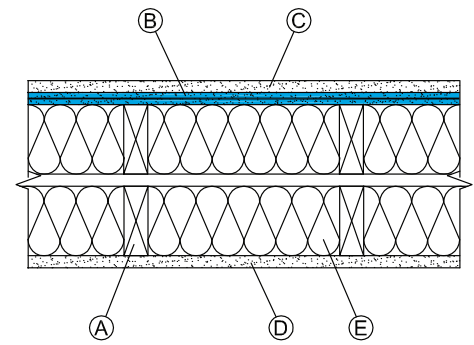
E 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

62
OL 10-1018

FIRE RATING

1 hr.
UL U305
GA WP 3510



A Double row 2"x4" [38x89 mm] wood studs on separate plates, 24" [610 mm] o.c. with 1" [25 mm] gap.

ONE SIDE

B Base layer 5/8" [15.9 mm] CertainTeed Type X applied with 1-1/4" [32 mm] type W screws 12" [300 mm] o.c.

C Face layer 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type W screws 12" [300 mm] o.c.

OPPOSITE SIDE

D 5/8" [15.9 mm] CertainTeed Type X applied with 1-1/4" [32 mm] type W screws 12" [300 mm] o.c.
All joints staggered.

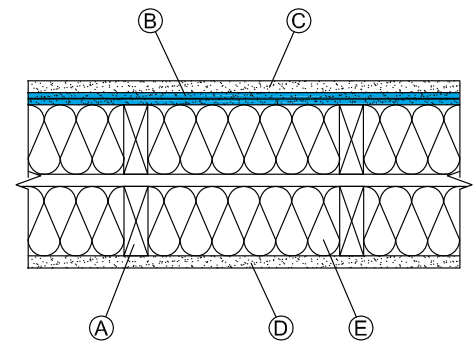
E 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

63
OL 10-0910

FIRE RATING

1 hr.
UL U309
GA WP 3510



5/8" [15.9 MM] SILENTFX™ – STEEL STUD SYSTEMS

A 3-5/8" [92 MM] 25 ga. steel studs 24" [610 MM] O.C.

ONE SIDE

B 5/8" [15.9 mm] SilentFX™ applied with 1" [25 mm] type S screws 12" [300 mm] o.c.

OPPOSITE SIDE

C 5/8" [15.9 mm] CertainTeed Type X applied with 1" [25 mm] type S screws 12" [300 mm] o.c.
All joints staggered.

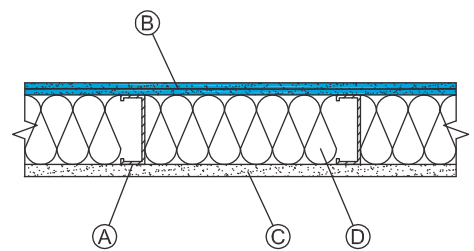
D 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

57
OL 11-0646

FIRE RATING

1 hr.
UL U465
GA WP 1081



A 3-5/8" [92 mm] 25 ga. steel studs 24" [610 mm] o.c.

ONE SIDE

B Base layer 5/8" [15.9 mm] CertainTeed Type X applied with 1" [25 mm] type S screws 12" [300 mm] o.c.

C Face layer 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.

OPPOSITE SIDE

D 5/8" [15.9 mm] SilentFX™ applied with 1" [25 mm] type S screws 12" [300 mm] o.c.
All joints staggered.

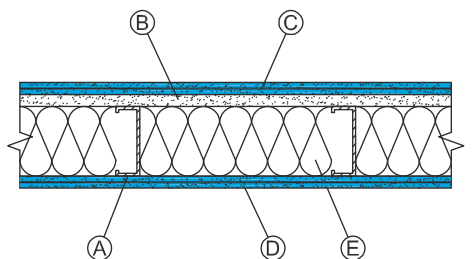
E 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

61
OL 11-0649

FIRE RATING

1 hr.
UL U465
GA WP 1081



A 3-5/8" [92 mm] 25 ga. steel studs 24" [610 mm] o.c.

ONE SIDE

B Base layer 5/8" [15.9 mm] SilentFX™ applied with 1-1/4" [32 mm] type S screws 12" [300 mm] o.c.

C Face layer 5/8" [15.9 mm] CertainTeed Type X applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.

OPPOSITE SIDE

D Base layer 5/8" [15.9 mm] CertainTeed Type X applied with 1-1/4" [32 mm] type S screws 12" [300 mm] o.c.

E Face layer 5/8" [15.9 mm] CertainTeed Type X applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.

All joints staggered.

F 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

60

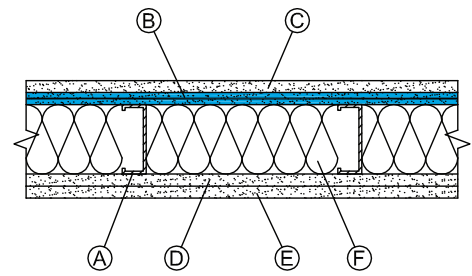
OL 10-1005

FIRE RATING

2 hr.

UL U411

GA WP 1524



A 3-5/8" [92 mm] 20 ga. steel studs 16" [406 mm] o.c.

ONE SIDE

B 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.

OPPOSITE SIDE

C 5/8" [15.9 mm] CertainTeed Type X applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.

All joints staggered.

D 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

48

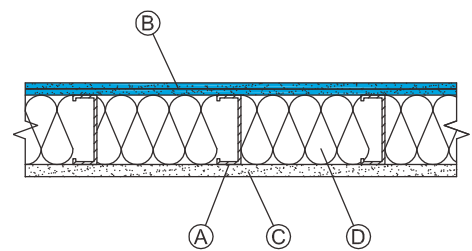
OL 11-0638

FIRE RATING

1 hr.

UL U465

GA WP 1081



A 3-5/8" [92 mm] 20 ga. steel studs 16" [406 mm] o.c.

ONE SIDE

B 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.

OPPOSITE SIDE

C 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.

All joints staggered.

D 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

55

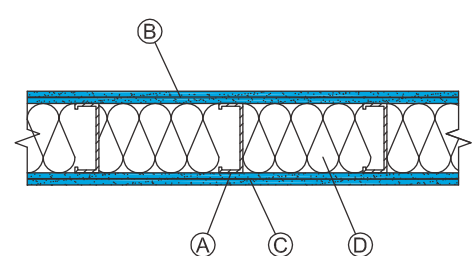
OL 11-0639

FIRE RATING

1 hr.

UL U465

GA WP 1081



A 3-5/8" [92 mm] 20 ga. steel studs 24" [610 mm] o.c.

ONE SIDE

B 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.

OPPOSITE SIDE

C 5/8" [15.9 mm] CertainTeed Type X applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.

All joints staggered.

D 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

54

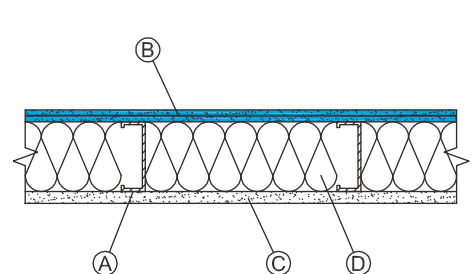
OL 11-0636

FIRE RATING

1 hr.

UL U465

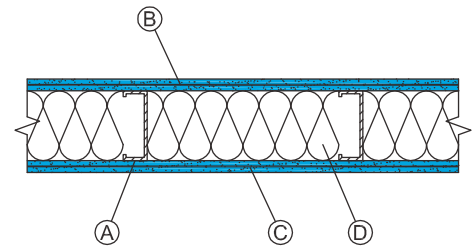
GA WP 1081



- A** 3-5/8" [92 mm] 20 ga. steel studs 24" [610 mm] o.c.
- ONE SIDE**
- B** 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.
- OPPOSITE SIDE**
- C** 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.
All joints staggered.
- D** 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING
58
OL 11-0637

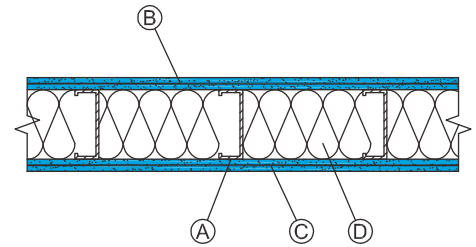
FIRE RATING
1 hr.
UL U465
GA WP 1081



- A** 3-5/8" [92 mm] 16 ga. steel studs 16" [406 mm] o.c.
- ONE SIDE**
- B** 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.
- OPPOSITE SIDE**
- C** 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.
All joints staggered.
- D** 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING
49
OL 11-0640

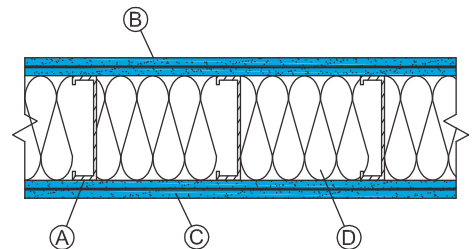
FIRE RATING
1 hr.
UL U465
GA WP 1081



- A** 6" [152 mm] 20 ga. steel studs 16" [406 mm] o.c.
- ONE SIDE**
- B** 5/8" [15.9 mm] SilentFX™ applied with 1" [25 mm] type S screws 12" [300 mm] o.c.
- OPPOSITE SIDE**
- C** 5/8" [15.9 mm] SilentFX™ applied with 1" [25 mm] type S screws 12" [300 mm] o.c.
All joints staggered.
- D** 6" [152 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING
55
OL 11-0644

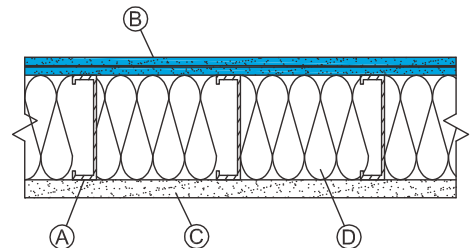
FIRE RATING
1 hr.
UL U465
GA WP 1081



- A** 6" [152 mm] 16 ga. steel studs 16" [406 mm] o.c.
- ONE SIDE**
- B** 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type S-12 screws 12" [300 mm] o.c.
- OPPOSITE SIDE**
- C** 5/8" [15.9 mm] CertainTeed Type X applied with 1-5/8" [41 mm] type S-12 screws 12" [300 mm] o.c.
All joints staggered.
- D** 6" [152 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING
49
OL 11-0642b

FIRE RATING
1 hr.
UL U465
GA WP 1081



A 6" [152 mm] 16 ga. steel studs 16" [406 mm] o.c.

ONE SIDE

B 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type S-12 screws 12" [300 mm] o.c.

OPPOSITE SIDE

C 5/8" [15.9 mm] SilentFX™ applied with 1-5/8" [41 mm] type S-12 screws 12" [300 mm] o.c.
All joints staggered.

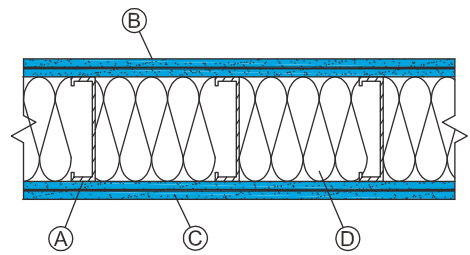
D 6" [152 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

53
OL 11-0643

FIRE RATING

1 hr.
UL U465
GA WP 1081



A Double row 2-1/2" [63.5 mm] 25 ga. steel studs 24" [610 mm] o.c., in separate tracks with a 1" [25 mm] gap.

ONE SIDE

B 5/8" [15.9 mm] SilentFX™ applied with 1-1/4" [32 mm] type S screws 12" [300 mm] o.c.

OPPOSITE SIDE

C 5/8" [15.9 mm] CertainTeed Type X applied with 1-1/4" [32 mm] type S screws 12" [300 mm] o.c.
All joints staggered.

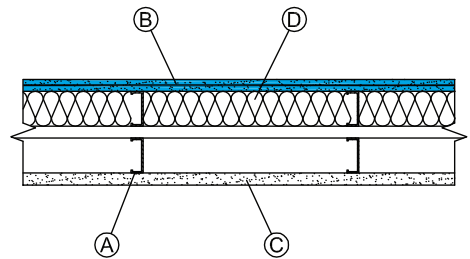
D 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

57
OL 10-1022

FIRE RATING

1 hr.
UL U420
GA WP 5015



A Double row 2-1/2" [63.5 mm] 25 ga. steel studs 24" [610 mm] o.c., in separate tracks with a 1" [25 mm] gap.

ONE SIDE

B Base layer 5/8" [15.9 mm] SilentFX™ applied with 1-1/4" [32 mm] type S screws 12" [300 mm] o.c.

C Face layer 5/8" [15.9 mm] CertainTeed Type X applied with 1-5/8" [41 mm] type S screws 12" [300 mm] o.c.

OPPOSITE SIDE

D 5/8" [15.9 mm] CertainTeed Type X applied with 1" [25 mm] type S screws 12" [300 mm] o.c.
All joints staggered.

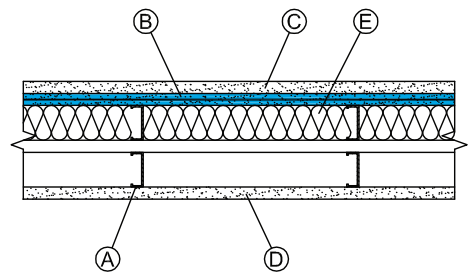
E 3-1/2" [90 mm] CertainTeed Thermal & Acoustical Fiber Glass Insulation or equivalent.

STC RATING

63
OL 10-1023

FIRE RATING

1 hr.
UL U420
GA WP 5015



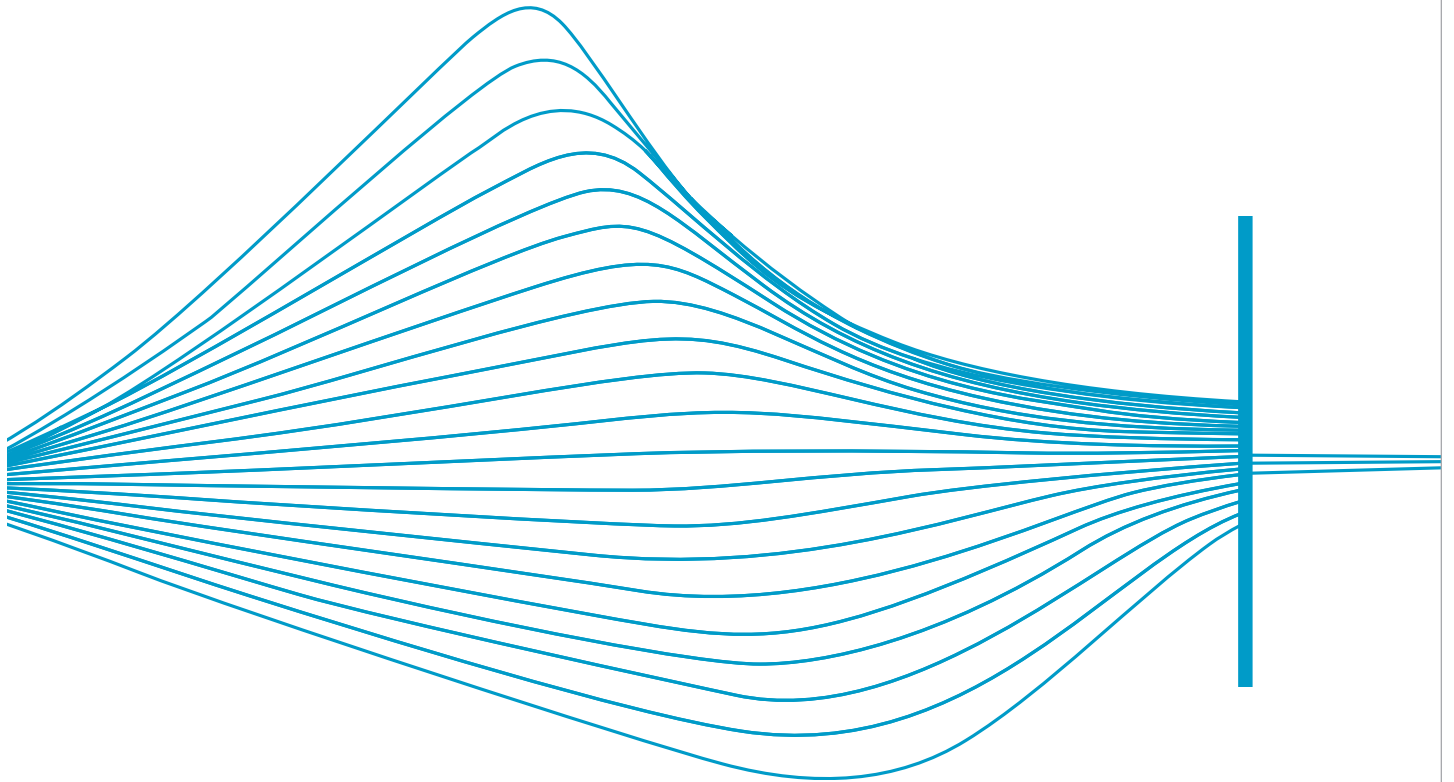
NOTES

SilentFX™ 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.



Noise-Reducing Gypsum Board



For more information
or SilentFX acoustic demonstrations and product video,
please visit www.certainteed.com/silentfx

SilentFX™ Noise-Reducing Gypsum Board is manufactured in nominal 1/2" (12.7 mm) and 5/8" (15.9 mm) Type X, 48" (1220 mm) width by 8' (2440 mm), 10' (3050 mm) and 12' (3660 mm) lengths.

Product Specifications

Product	Product Standards	Application Standards
1/2" SilentFX™	ASTM C 1396 and C 1629	ASTM C 840; GA-216
5/8" SilentFX™ Type X	ASTM C 1396 and C 1629	ASTM C 840; GA-216
	1/2" (12.7 mm)	5/8" (15.9 mm) Type X
Widths	48" (1220 mm)	48" (1220 mm)
Standard Lengths*	8' (2440 mm) 10' (3050 mm) 12' (3660 mm)	8' (2440 mm) 10' (3050 mm) 12' (3660 mm)
Weight	2.3 psf (11.2 kg/m ²)	2.8 psf (13.7 kg/m ²)
Edges	Tapered	Tapered
Flame Spread	5	5
Smoke Developed	5	5
Mold Resistance Rating** (ASTM D 3273)	10	10
Abuse Resistance Classifications (ASTM C 1629)		
Surface Abrasion (D 4977)	1	1
Indentation Resistance (D 5420)	1	1
Soft Body Impact (E 695)	1	1

The performance of SilentFX™ Noise-Reducing Gypsum Board 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.

** No mold growth detected. Note: 10 is the best possible rating for ASTM D 3273.



ASK ABOUT ALL OF OUR OTHER CERTAINTEED® PRODUCTS AND SYSTEMS:

ROOFING • SIDING • TRIM • DECKING • RAILING • FENCE • FOUNDATIONS
GYPSUM • CEILINGS • INSULATION • PIPE

www.certainteed.com <http://blog.certainteed.com>

CertainTeed Corporation
P.O. Box 860
Valley Forge, PA 19482

Professional: 800-233-8990
Consumer: 800-782-8777