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 Noise-Reducing Gypsum Board is specifically designed to reduce airborne sound transmission between two adjoining spaces when used in wall or floor/ceiling assemblies. SilentFX features a viscoelastic polymer that 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 provide STC ratings of 50 and up. SilentFX is ideal for reducing noise in schools, hospitals, multi-family, hospitality, and residential projects.

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

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.

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**SilentFX®**
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.

**DOUBLE LAYER CERTAINEED 5/8” TYPE X**
Thickness: 6-1/8"
Sound test: STC 55

**SINGLE LAYER CERTAINEED 5/8” TYPE X**
Thickness: 4-7/8"
Sound test: STC 57

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**CertainTeed’s System Solutions**
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.

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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

For more information about CertainTeed’s ceilings or insulation products, call 1.800.233.8990 or go to www.certainteed.com/ceilings or www.certainteed.com/insulation.
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

For more information about CertainTeed’s ceilings or insulation products, call 1.800.233.8990 or go to www.certainteed.com/ceilings or www.certainteed.com/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 whir, 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

For more information about CertainTeed’s ceilings or insulation products, call 1.800.233.8990 or go to www.certainteed.com/ceilings or www.certainteed.com/insulation.
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

For more information about CertainTeed’s ceilings or insulation products, call 1.800.233.8990 or go to www.certainteed.com/ceilings or www.certainteed.com/insulation.
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.

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

* 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.

<table>
<thead>
<tr>
<th>PERCEPTION OF SOUND PRESSURE</th>
<th>SOUND PRESSURE LEVEL (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAIN THRESHOLD</td>
<td>140</td>
</tr>
<tr>
<td>JET TAKE-OFF</td>
<td>130</td>
</tr>
<tr>
<td>ROCK CONCERT</td>
<td>120</td>
</tr>
<tr>
<td>STREET TRAFFIC</td>
<td>110</td>
</tr>
<tr>
<td>PHONE RINGING</td>
<td>100</td>
</tr>
<tr>
<td>TV / BUSY OFFICE</td>
<td>90</td>
</tr>
<tr>
<td>NORMAL CONVERSATION</td>
<td>80</td>
</tr>
<tr>
<td>QUIET ROOM</td>
<td>70</td>
</tr>
<tr>
<td>CALM BREATHING</td>
<td>60</td>
</tr>
<tr>
<td>HEARING THRESHOLD</td>
<td>50</td>
</tr>
</tbody>
</table>

**Airborne + Impact Sound Source**

**Structureborne / Flanking Transmission Via Ceiling Surfaces**

**Airborne Transmission Through Wall**

**Impact Structureborne Transmission Via Floor Surfaces**
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 E90) or acoustical sealant to seal electrical outlets.
• Install SilentFX® in accordance with GA-216, “Application and Finishing of Gypsum Panels” (ASTM C840).
• 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 C919 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.

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, high-lighting our ongoing effort to become the preeminent supplier of green building materials.
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.

<table>
<thead>
<tr>
<th>STC RATING</th>
<th>OL 10-0906</th>
</tr>
</thead>
<tbody>
<tr>
<td>38</td>
<td></td>
</tr>
</tbody>
</table>

FIRE RATING
N/A

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

**STC RATING**
42
**OL 11-0630**

FIRE RATING
N/A

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**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.

<table>
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<th>OL 10-0906</th>
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<td>42</td>
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</table>

FIRE RATING
N/A

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**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.

<table>
<thead>
<tr>
<th>STC RATING</th>
<th>OL 10-0904</th>
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</thead>
<tbody>
<tr>
<td>49</td>
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</tbody>
</table>

FIRE RATING
N/A

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**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.

<table>
<thead>
<tr>
<th>STC RATING</th>
<th>OL 11-0626</th>
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</thead>
<tbody>
<tr>
<td>42</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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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.

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

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

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STC RATING
50
OL 10-1021
FIRE RATING
1 hr.
UL U309
GA WP 3510

STC RATING
50
OL 10-0905
FIRE RATING
N/A

STC RATING
52
OL 10-0901
FIRE RATING
N/A

STC RATING
48
OL 10-0806
FIRE RATING
N/A
A 2\x20quote\times4\x20[38\times89\text{\,mm}]\text{\,wood\,studs\,24''\,[610\,mm]\,o.c.}\\
\text{\,\,\textbf{ONE\,SIDE}}\\
B 5/8\x20quote\,[15.9\text{\,mm}]\text{\,SilentFX}\text{®\,applied\,with\,1-1/4’\,[32\text{\,mm}]\,type\,W\,screws\,12’\,[300\text{\,mm]}\,o.c.}\\\
\text{\,\,\textbf{OPPOSITE\,SIDE}}\\
C 5/8\x20quote\,[15.9\text{\,mm}]\text{\,CertainTeed\,Type\,X\,applied\,with\,1-1/4’\,[32\text{\,mm}]\,type\,W\,screws\,12’\,[300\text{\,mm]}\,o.c.}\,\text{\,\,All\,joints\,staggered.}\\\
D 3-1/2\x20quote\,[90\text{\,mm}]\text{\,CertainTeed\,Thermal\,&\,Acoustical\,Fiber\,Glass}\,\text{\,Insulation\,or\,equivalent.}\\\

\text{\,\,\textbf{STC\,RATING}}\,51\text{\,\,OL\,10-1013}\,\text{\,\,FUHR:\,OL\,10-1013}\,\text{\,\,FIRE\,RATING}\,1\text{\,hr.}\,\text{\,\,UL\,U305}\,\text{\,\,GA\,WP\,3514}\n
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A 2\x20quote\times4\x20[38\times89\text{\,mm}]\text{\,wood\,studs\,24''\,[610\,mm]\,o.c.}\\
\text{\,\,\textbf{ONE\,SIDE}}\\
B \text{\,Resilient\,channel\,24''\,[610\text{\,mm]}\,o.c.}\\\
C 5/8\x20quote\,[15.9\text{\,mm}]\text{\,SilentFX}\text{®\,applied\,with\,1’\,[25\text{\,mm}]\,type\,S\,screws\,12’\,[300\text{\,mm]}\,o.c.}\\\
\text{\,\,\textbf{OPPOSITE\,SIDE}}\\
D 5/8\x20quote\,[15.9\text{\,mm}]\text{\,CertainTeed\,Type\,X\,applied\,with\,1-5/8’\,[41\text{\,mm}]\,type\,W\,screws\,12’\,[300\text{\,mm]}\,o.c.}\,\text{\,\,All\,joints\,staggered.}\\\
E 3-1/2\x20quote\,[90\text{\,mm}]\text{\,CertainTeed\,Thermal\,&\,Acoustical\,Fiber\,Glass}\,\text{\,Insulation\,or\,equivalent.}\\\

\text{\,\,\textbf{STC\,RATING}}\,56\text{\,\,OL\,11-0625}\,\text{\,\,FUHR:\,OL\,11-0625}\,\text{\,\,FIRE\,RATING}\,1\text{\,hr.}\,\text{\,\,UL\,U309}\,\text{\,\,GA\,WP\,3243}\n
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A 2\x20quote\times4\x20[38\times89\text{\,mm}]\text{\,wood\,studs\,24''\,[610\,mm]\,o.c.}\\
\text{\,\,\textbf{ONE\,SIDE}}\\
B \text{\,Resilient\,channel\,24''\,[610\text{\,mm]}\,o.c.}\\\
C 5/8\x20quote\,[15.9\text{\,mm}]\text{\,SilentFX}\text{®\,applied\,with\,1’\,[25\text{\,mm}]\,type\,S\,screws\,12’\,[300\text{\,mm]}\,o.c.}\\\
D \text{\,Face\,layer\,5/8’\,[15.9\text{\,mm}]\text{\,CertainTeed\,Type\,X\,applied\,with\,1-5/8’\,[41\text{\,mm}]\,type\,S\,screws\,12’\,[300\text{\,mm]}\,o.c.}\,\text{\,\,All\,joints\,staggered.}\\\
E 3-1/2\x20quote\,[90\text{\,mm}]\text{\,CertainTeed\,Thermal\,&\,Acoustical\,Fiber\,Glass}\,\text{\,Insulation\,or\,equivalent.}\\\

\text{\,\,\textbf{STC\,RATING}}\,59\text{\,\,OL\,10-1020}\,\text{\,\,FUHR:\,OL\,10-1020}\,\text{\,\,FIRE\,RATING}\,1\text{\,hr.}\,\text{\,\,UL\,U305}\,\text{\,\,GA\,WP\,3514}\n
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A 2\x20quote\times4\x20[38\times89\text{\,mm}]\text{\,wood\,studs\,16’\,[406\,mm]\,o.c.}\\
\text{\,\,\textbf{ONE\,SIDE}}\\
B \text{\,Resilient\,channel\,24''\,[610\text{\,mm]}\,o.c.}\\\
C 5/8\x20quote\,[15.9\text{\,mm}]\text{\,SilentFX}\text{®\,applied\,with\,1’\,[25\text{\,mm}]\,type\,S\,screws\,12’\,[300\text{\,mm]}\,o.c.}\\\
\text{\,\,\textbf{OPPOSITE\,SIDE}}\\
D 5/8\x20quote\,[15.9\text{\,mm}]\text{\,CertainTeed\,Type\,X\,applied\,with\,1-1/4’\,[32\text{\,mm}]\,type\,W\,screws\,12’\,[300\text{\,mm]}\,o.c.}\,\text{\,\,All\,joints\,staggered.}\\\
E 3-1/2\x20quote\,[90\text{\,mm}]\text{\,CertainTeed\,Thermal\,&\,Acoustical\,Fiber\,Glass}\,\text{\,Insulation\,or\,equivalent.}\\\

\text{\,\,\textbf{STC\,RATING}}\,51\text{\,\,OL\,10-1013}\,\text{\,\,FUHR:\,OL\,10-1013}\,\text{\,\,FIRE\,RATING}\,1\text{\,hr.}\,\text{\,\,UL\,U305}\,\text{\,\,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.

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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.

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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.

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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.
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.

---

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.

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5/8" [15.9 MM] SILENTEX® – 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.

---

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

---

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.

---

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.

---

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.
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
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
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
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
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.

---

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.

---

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.

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**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**

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<td>5/8&quot; SilentFX® Type X</td>
<td>ASTM C1396 and C1629</td>
<td>ASTM C840; GA-216</td>
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| Widths                  | 48" (1220 mm)      |
| 1/2" (12.7 mm)          | 5/8" (15.9 mm)      |
| Standard Lengths*       | 8' (2440 mm)        |
| 10' (3050 mm)           | 8' (2440 mm)        |
| 12' (3660 mm)           | 10' (3050 mm)       |

| Weight                  | 2.3 psf (11.2 kg/m²) |
| 1/2" (12.7 mm)          | 2.8 psf (13.7 kg/m²) |

| Edges                   | Tapered             |
| Flame Spread            | 5                   |
| Smoke Developed         | 5                   |
| Mold Resistance Rating**| 10                  |

Abuse Resistance Classifications (ASTM C1629)
- Surface Abrasion (D4977) 1
- Indentation Resistance (D5420) 1
- Soft Body Impact (E695) 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 D3273.

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