GOLD BOND® BRAND SOUNDBREAK™ GYPSUM BOARD

MANUFACTURER

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DESCRIPTION

Gold Bond® BRAND SoundBreak™ Gypsum Board is an acoustically enhanced gypsum board used in the construction of high rated STC wall assemblies. This 5/8" thick gypsum board consists of a layer of viscoelastic damping polymer sandwiched between two pieces of enhanced high density mold resistant gypsum board, providing constrained layer damping.

For speed of installation, GridMarX® guide marks are printed on the paper surface.

Long edges of the panels are tapered. Tapered edges allow joints to be reinforced with ProForm® BRAND Joint Tape and concealed with ProForm® BRAND Ready Mix, Easy Finish® BRAND Ready Mix or ProForm® BRAND Sta-Smooth® Joint Compounds. For optimum mold and mildew performance, National Gypsum recommends ProForm® BRAND XP® Ready Mix.

BASIC USES

For use as single-layer application or as a component of multi-layered wall assemblies where sound transmission between rooms or dwelling units is a concern.

ADVANTAGES

- Use of SoundBreak Gypsum Board results in wall partitions with high rated STC values that are thinner than traditionally built high rated STC wall partitions, providing increased usable floor space.
- Superior sound damping, cost-efficient material that is easily finished and decorated in the same manner as regular gypsum board.
- All SoundBreak Gypsum Board designs were tested by an independent third-party acoustical laboratory using the full scale ASTM E90 test procedure.
- SoundBreak Gypsum Board is installed like traditional gypsum board offering a more reliable and less complicated solution than alternative methods requiring clips and/or channels.
- SoundBreak Gypsum Board can be cut by scoring deeply from both sides of the board before snapping, or with the use of a hand or power saw.

LIMITATIONS

- Exposure to excessive or continuous moisture and extreme temperatures should be avoided. SoundBreak Gypsum Board is not recommended where it will be exposed to temperatures exceeding 125°F (52°C) for extended periods of time.
- SoundBreak Gypsum Board is for use in wall assemblies.
- SoundBreak Gypsum Board cannot be used as a substitute for 5/8" Type X gypsum board in a fire-rated assembly. (*See Fire Resistance Ratings)
- Installing SoundBreak Gypsum Board panels over an insulating blanket, installed continuously across the face of the framing members, is not recommended. Blankets should be recessed and flanges attached to the sides of the studs.
- SoundBreak Gypsum Board must be stored off the ground and under cover. Sufficient risers must be used to ensure support for the entire length of the gypsum board to prevent sagging.
- SoundBreak Gypsum Board must be kept dry to minimize the potential for mold growth. Adequate care should be taken while transporting, storing, applying and maintaining SoundBreak Gypsum Board. For additional information, refer to the Gypsum Association publication, *"Guidelines for the Prevention of Mold Growth on Gypsum Board"* (GA-238-03), which is available at www.gypsum.org under the "Download Free Gypsum Association Publications" section.

COMPOSITION & MATERIALS

SoundBreak Gypsum Board consists of two outer panels with a specially formulated gypsum core encased with recycled mold-resistant paper, combined with an inner layer of viscoelastic damping polymer. SoundBreak Gypsum Board contains no asbestos. SoundBreak Gypsum Board also contains various aggregates such as fiberglass to enhance the fire resistive qualities.

(Continued next page)

Job Name _____

Contractor _____Date_____

Submittal Approvals: (Stamps or Signatures)

ACCESSORIES
(see Installation Recommendations)

Fasteners: Drywall Screws or Nails

Joint Tape

Joint Compound

Cornerbead

Trims

Casing Beads

Acoustical Sealant

Acoustical Putty Pads

SIZES & TYPES

Width: 4' (1219 mm)
Lengths: 8', 9', 10' and 12' (2438, 2743, 3048 and 3657 mm)
Thickness: 5/8" (15.9 mm)
Weight: 2.7 lbs./sq.ft.

Edges: Tapered

APPLICABLE STANDARDS

ASTM C 1396

Federal specification SS-L-30D Type III (Grade R)

TECHNICAL DATA

SURFACE BURNING CHARACTERISTICS

ASTM E 84
Flame spread: 15
Smoke developed: 0
*

FIRE RESISTANCE RATINGS

As an option, SoundBreak Gypsum Board may be used as an additional layer on one or both sides of fire-rated wall assemblies (i.e., U300, U400 and V400 series designs). SoundBreak Gypsum Board cannot be used as a substitute for 5/8" Type X gypsum board in a fire-rated assembly.

SoundBreak Gypsum Board shall be attached in accordance with manufacturer's recommendations. When SoundBreak Gypsum Board is installed between the framing and the UL Classified gypsum board, the UL Classified gypsum board layer(s) required for the design is/are to be installed as indicated in the design as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 5/8".

For U300, U400 and V400 series designs, outer layer treated with joint compound and paper tape as specified in the design.

For additional information go to UL Online Certifications Directory, Product Category Code CLBV.R25426 - Wall and Partition Facings and Accessories.

****MOLD AND MILDEW RESISTANCE**

SoundBreak Gypsum Board was designed to provide extra protection against mold and mildew compared to standard gypsum board products. When tested by an independent lab per ASTM D3273 ("Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber"), SoundBreak Gypsum Board achieved a score of 10, the best possible score for this test.

** No material can be considered "mold-proof", nor is it certain that any material will resist mold or mildew indefinitely. When used in conjunction with good design, handling, and construction practices, SoundBreak Gypsum Board can provide increased mold resistance versus standard gypsum board products. As with any building material, avoiding water exposure during handling, storage and installation, and after installation is complete, is the best way to avoid the formation of mold or mildew.

INSTALLATION

APPLICABLE STANDARDS AND REFERENCES

ASTM C 840
Gypsum Association GA-216
Gypsum Association GA-214
National Gypsum Co. *Gypsum Construction Guide*

RECOMMENDATIONS

Installation of SoundBreak Gypsum Board should be consistent with methods described in the standards and references noted.

Minimum Guidelines for Optimum Performance and Sound Reduction

- Stagger SoundBreak Gypsum Board joints from one side of the wall to the other
- Allow a 1/4" gap along all perimeter edges and completely seal 1/4" gap with acoustical sealant or caulk
- Refrain from any wall penetrations when possible
- Limit necessary wall penetrations to one per stud cavity
- Seal all penetrations with acoustical sealant and/or putty pads
- The use of SoundBreak Gypsum Board in actual installations may not produce the same results as were achieved in controlled, laboratory condiditions.

Recommendations for Cutting SoundBreak Gypsum Board

- SoundBreak Gypsum Board can be cut by scoring deeply from both sides of the board before snapping, or with the use of a hand or power saw. Cutting across the 4' width may require use of a saw.

Recommendations for Acoustical Sealants and Putty Pads

- Use an acoustical sealant that is applied per ASTM C919 such as Grabber Acoustical Sealant GSC, STI SpecSeal Smoke N Sound Caulk, BOSS 824 Acoustical Sound Sealant or equivalent.
- Use a putty pad that has been tested per ASTM E90, such as STI SpecSeal SSP Putty Pads or BOSS 818 Fire-Rated Putty Pads or equivalent.

DECORATION

For best painting results, all surfaces, including joint compound, should be clean, dust-free and not glossy. To improve fastener and joint concealment, a coat of a quality drywall primer is recommended to equalize the porosities between surface paper and joint compound.

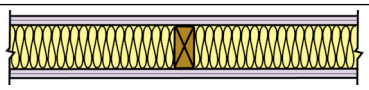
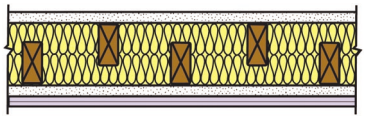
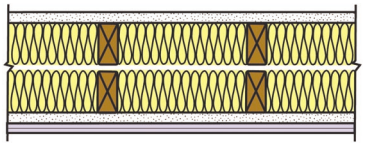
The selection of a paint to give the specified or desired finished characteristics is the responsibility of the architect or contractor.

SoundBreak Gypsum Board that is to have a wall covering applied should be prepared and primed as described for painting.

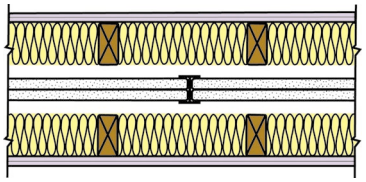
Gypsum Association GA-214, *Recommended Specification for Levels of Gypsum Board Finish*, should be referred to in order to determine the level of finishing required to ensure a properly prepared surface that accepts the desired decoration.

SoundBreak Gypsum Board Acoustical Selector Guide

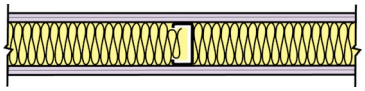
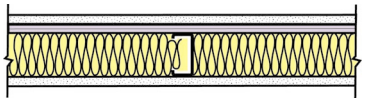
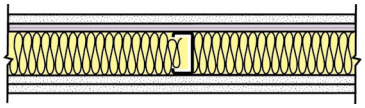
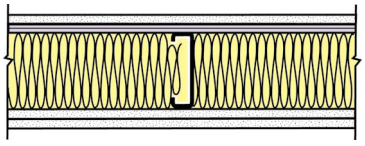
SOUNDBREAK™ GYPSUM BOARD PARTITIONS – WOOD FRAMING

Fire Rating	Ref.	Design No.	Description	Test No.	STC
SINGLE LAYER – 2X4 STUDS					
N/A 	N/A	N/A	5/8" SoundBreak Gypsum Board applied vertically to each side of 2x4 studs spaced 24" o.c. with 1-1/4" type W screws 12" o.c. 3-1/2" glass fiber in stud cavity.	RAL TL07-145	**53**
UNBALANCED STAGGERED – 2X4 STUDS					
1 hr. 	GA	Based on WP3514	Base layer 5/8" Fire-Shield Gypsum Board vertically applied to staggered 2x4 studs spaced 16" o.c. on 2x6 plates with 1-1/4" type W screws 12" o.c. Face layer of 5/8" SoundBreak vertically applied with 2" type W screws 16" o.c. Opposite side 5/8" Fire-Shield Gypsum Board vertically applied with 1-1/4" type W screws 12" o.c. Vertical joints staggered 16" each layer and opposite sides. 2-1/2" glass fiber in stud cavity.	RAL TL07-170	**60**
UNBALANCED DOUBLE ROW – 2X4 STUDS					
1 hr. 	GA	Based on WP3514	Base layer 5/8" Fire-Shield Gypsum Board vertically applied to double row of 2x4 studs spaced 16" o.c. on separate plates with 1-1/4" type W screws 12" o.c. Face layer of 5/8" SoundBreak vertically applied with 2" type W screws 16" o.c. Opposite side 5/8" Fire-Shield Gypsum Board vertically applied with 1-1/4" type W screws 12" o.c. Vertical joints staggered 16" each layer and opposite sides. 3-1/2" glass fiber in stud cavity.	RAL TL07-147	**64**

SOUNDBREAK™ GYPSUM BOARD PARTITIONS – AREA SEPARATION WALL

Fire Rating	Ref.	Design No.	Description	Test No.	STC
H-STUD AREA SEPARATION WALL					
2 hr. 	UL	U347	Two layers of 1" Fire-Shield Shaftliner or Fire-Shield Shaftliner XP inserted in 2" H-studs spaced 24" o.c. Minimum 3/4" air space between shaftliner and adjacent construction. 5/8" SoundBreak Gypsum Board applied vertically to outside of 2x4 studs spaced 16" o.c. with 1-1/4" type W screws 12" o.c. 3-1/2" glass fiber in stud cavity.	NRCC B-3451.1	**67**

SOUNDBREAK™ GYPSUM BOARD PARTITIONS – STEEL FRAMING

Fire Rating	Ref.	Design No.	Description	Test No.	STC
SINGLE LAYER – 3-5/8" STUDS					
N/A 	N/A	N/A	5/8" SoundBreak Gypsum Board vertically applied to each side of 3-5/8" steel studs spaced 24" o.c. with 1" type S screws 12" o.c. Vertical joints staggered 24" on opposite sides. 3-1/2" glass fiber in stud cavity.	RAL TL06-336	**55**
UNBALANCED – 3-5/8" STUDS					
1 hr. 	UL	Based on U465	Base layer 5/8" SoundBreak Gypsum Board vertically applied to 3-5/8" steel studs spaced 24" o.c. with 1" type S screws 24" o.c., Face layer 5/8" Fire-Shield Gypsum Board vertically applied with 1-5/8" type S screws 12" o.c. Opposite side 5/8" Fire-Shield Gypsum Board vertically applied with 1" type S screws 12" o.c. Vertical joints staggered 24" each layer and opposite sides. 3-1/2" glass fiber in stud cavity.	RAL TL06-334	**57**
DOUBLE LAYER – 3-5/8" STUDS					
1 hr. 	GA	Based on WP1052	Base layer 5/8" SoundBreak Gypsum Board vertically applied to 3-5/8" steel studs spaced 24" o.c. with 1" type S screws 24" o.c., face layer 5/8" Fire-Shield Gypsum Board vertically applied with 1-5/8" type S screws 12" o.c. Opposite side two layers 5/8" Fire-Shield Gypsum Board vertically applied. Base layer attached with 1" type S screws 24" o.c. , face layer attached with 1-5/8" type S screws 12" o.c. Vertical joints staggered 24" each layer and opposite sides. 3-1/2" glass fiber in stud cavity.	RAL TL07-168	**60**
DOUBLE LAYER – 6" STUDS					
1 hr. 	GA	Based on WP1052	Base layer 5/8" SoundBreak Gypsum Board vertically applied to 6" steel studs spaced 24" o.c. with 1" type S screws 24" o.c., face layer 5/8" Fire-Shield Gypsum Board vertically applied with 1-5/8" type S screws 12" o.c. Opposite side two layers 5/8" Fire-Shield Gypsum Board vertically applied. Base layer attached with 1" type S screws 24" o.c. , face layer attached with 1-5/8" type S screws 12" o.c. Vertical joints staggered 24" each layer and opposite sides. 6" glass fiber in stud cavity.	NRCC B-3456.2	**61**

Note: In multi-layer systems, SoundBreak Gypsum Board can be used as either a face layer or a base layer without affecting the STC Rating.

National Gypsum®

Excellence Across The Board™

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