GOLD BOND® BRAND 5/8" SOUNDBREAK® XP® GYPSUM BOARD

MANUFACTURER

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DESCRIPTION

Gold Bond® BRAND 5/8" SoundBreak® XP® Gypsum Board with Sporgard™* has an acoustically enhanced, high density fire resistant Type X gypsum core encased in a heavy, abrasion and mold/mildew/moisture resistant, 100% recycled, National Gypsum's original PURPLE® paper on both sides. 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 high density mold resistant gypsum board, providing constrained layer damping.

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 or ProForm® BRAND Quick Set Setting 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.

5/8" SoundBreak XP panels may be used where Type X gypsum panels are specified in fire-rated wall assemblies (e.g., UL U300, U400 and V400.)

ADVANTAGES

- Vertical board joints do not require acoustical sealant.
- Resists the growth of mold per ASTM G 21 with a score of 0, the best possible score.
- Resists the growth of mold per ASTM D 3273 with a score of 10, the best possible score.
- Use of 5/8" SoundBreak XP 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.
- 5/8" SoundBreak XP Gypsum Board features a fire resistant Type X core and is UL classified and approved for inclusion in specific UL fire-rated designs.
- Superior sound damping, cost-efficient material that is easily finished and decorated in the same manner as standard gypsum board.
- Heavy abrasion resistant paper and denser core provide greater resistance to surface abuse and indentation when tested in accordance with ASTM C 1629.
- All SoundBreak XP Gypsum Board designs were tested by an independent third-party acoustical laboratory using the full-scale ASTM E 90 test procedure.
- SoundBreak XP 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 XP Gypsum Board can be cut by scoring deeply from both sides of the board before snapping, or with the use of a hand or electric saw.

GREENGUARD CERTIFIED

Gold Bond® BRAND 5/8" SoundBreak® XP® Gypsum Board has achieved GREENGUARD Gold Certification.

MOLD AND MILDEW RESISTANCE

SoundBreak XP Gypsum Board was designed to provide extra protection against mold and mildew compared to standard gypsum board products. When tested by an independent laboratory, SoundBreak XP Gypsum Board with Sporgard received the highest possible ratings on ASTM G 21 and D 3273.

The use of SoundBreak XP Gypsum Board in actual installations may not produce the same results as were achieved in controlled laboratory conditions. 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 XP 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.

Job Name _____

Contractor _____ Date _____

Submittal Approvals: (Stamps or Signatures)

*Sporgard is a trademark of LANXESS Corporation

LIMITATIONS

- Exposure to excessive or continuous moisture and extreme temperatures should be avoided. SoundBreak XP Gypsum Board is not recommended where it will be exposed to temperatures exceeding 125°F (52°C) for extended periods of time.
- Installing SoundBreak XP 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 XP 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 XP 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 XP 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

5/8" SoundBreak XP Gypsum Board consists of two outer panels with a specially formulated, mold resistant gypsum core encased with recycled mold resistant paper, combined with an inner layer of viscoelastic damping polymer. SoundBreak XP Gypsum Board also contains various aggregates, such as fiberglass, to enhance the fire resistive qualities. SoundBreak XP Gypsum Board contains no asbestos.

TECHNICAL DATA

PHYSICAL PROPERTIES

Thickness, nominal	5/8" Type X (15.9 mm)
Width, nominal	4' (1219 mm)
Length, standard*	8' through 12' (2438-3657 mm)
Weight, lbs./sq.ft., nominal	2.7
Edges	Tapered
Surface Burning Characteristics (per ASTM E 84)	Flame Spread: 15 Smoke Developed: 0
Surface Abrasion Resistance (per ASTM C 1629)	Level 3
Indentation Resistance (per ASTM C 1629)	Level 1
Soft Body Impact Resistance (per ASTM C 1629)	Level 2
Hard Body Impact Resistance (per ASTM C 1629)	Level 1

*Special lengths may be available. Contact your local sales representative for more information.

APPLICABLE STANDARDS AND REFERENCES

ASTM C 1396
ASTM C 1629
ASTM C 840
ASTM D 3273
ASTM G 21
Gypsum Association GA-216
Gypsum Association GA-214
Gypsum Association GA-801
National Gypsum Company, *Gypsum Construction Guide*

ACCESSORIES
(see Installation Recommendations)

- Fasteners: drywall screws or nails
- ProForm Joint Tape
- ProForm Ready Mix or ProForm Quick Set/Quick Set Lite Setting Compound
- Cornerbead, trims, casing beads
- Acoustical sealant
- Acoustical putty pads

FIRE RESISTANCE RATINGS

Fire resistance ratings represent the results of tests on assemblies made up of specific materials in a specific configuration. When selecting construction designs to meet certain fire resistance requirements, caution must be used to ensure that each component of the assembly is the one specified in the test. Further precautions should be taken that assembly procedures are in accordance with those of the tested assembly. For copies of specific tests, call 1-800-NATIONAL. For fire safety information, see **nationalgypsum.com**.

SoundBreak XP Gypsum Board shall be attached in accordance with manufacturer's recommendations. When SoundBreak XP 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".

UL CORE DESIGNATION

5/8" SoundBreak XP:
SoundBreak XP Type X

INSTALLATION

RECOMMENDATIONS

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

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 XP 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.

Minimum Guidelines for Optimum Performance and Sound Reduction

- Stagger SoundBreak XP Gypsum Board joints from one side of the wall to the other.
- Allow a 1/4″ gap along all wall 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 XP Gypsum Board in actual installations may not produce the same results as were achieved in controlled, laboratory conditions.

Recommendations for Cutting SoundBreak Gypsum Board

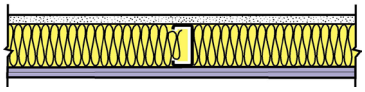
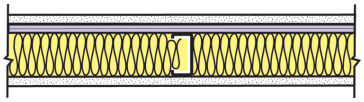
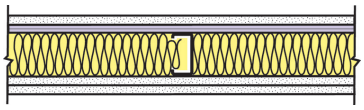
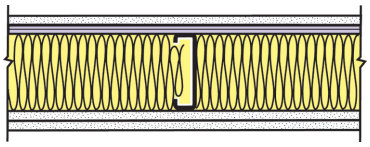
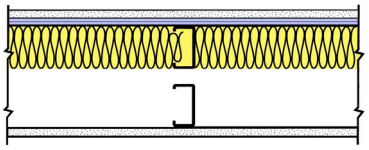
- SoundBreak XP Gypsum Board can be cut by scoring deeply from both sides of the board before snapping, or with the use of a hand or electric saw. Cutting across the 4′ width may require use of a saw.

Recommendations for Acoustical Sealants and Putty Pads

- Use an acoustical sealant that is applied per ASTM C 919 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 E 90, such as STI SpecSeal SSP Putty Pads or BOSS 818 Fire-Rated Putty Pads or equivalent.

SoundBreak XP Gypsum Board Acoustical Selector Guide

SOUNDBREAK XP GYPSUM BOARD PARTITIONS – STEEL FRAMING

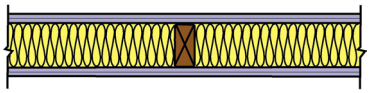
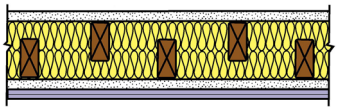
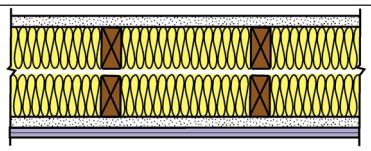
Fire Rating		Ref.	Design No.	Description	Test No.	STC
SINGLE LAYER – 3-5/8" STUDS						
1 hr.		UL UL	U465 V438	5/8" SoundBreak XP Gypsum Board vertically applied to one side of 3-5/8" steel studs 24" o.c. with 1" type S screws 8" o.c. at perimeter and 12" o.c. in the field. 5/8" Fire-Shield Gypsum Board vertically applied to opposite side with 1" type S screws 8" o.c. at perimeter and 12" o.c. in the field. Joints staggered on opposite side. 3-1/2" glass fiber in stud cavity.	RAL TL07-389	**54**
UNBALANCED – 3-5/8" STUDS						
1 hr.		UL UL	U465 V438	Base layer 5/8" SoundBreak XP 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						
2 hr.		UL UL UL	V484 U411 V438	Base layer 5/8" SoundBreak XP 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						
2 hr.		UL UL UL	V484 U411 V438	Base layer 5/8" SoundBreak XP 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**
UNBALANCED DOUBLE ROW – 2-1/2" STUDS						
1 hr.		UL	V488	Base layer 5/8" SoundBreak XP Gypsum Board vertically applied to double row of 2-1/2" steel studs 24" o.c. with 1" type S screws 8" o.c. at perimeter and 12" o.c. in the field. Face layer 5/8" Fire-Shield Gypsum Board vertically applied with 1-5/8" type S screws 12" o.c. 5/8" Fire-Shield Gypsum Board vertically applied to opposite side with 1" type S screws 8" o.c. at perimeter and 12" o.c. in the field. Joints staggered on opposite side. 3" glass fiber or mineral wood insulation in stud cavity.	NGC 2008036	**59**

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

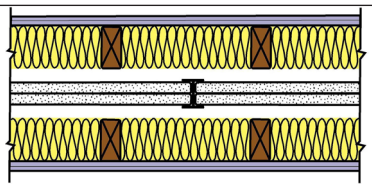
(Continued next page)

SoundBreak XP Gypsum Board Acoustical Selector Guide

SOUNDBREAK XP GYPSUM BOARD PARTITIONS – WOOD FRAMING

Fire Rating	Ref.	Design No.	Description	Test No.	STC
SINGLE LAYER – 2 x 4 STUDS					
1 hr. 	UL	Based on U309	5\8" SoundBreak XP Gypsum Board vertically applied to each side of 2x4 studs 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– 2 x 4 STUDS					
1 hr. 	GA	Based on WP3614	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 XP 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 screws12" o.c. Vertical joints staggered 16" each layer and opposite sides. 3-1/2" glass fiber in stud cavity.	RAL TL07-170	**60**
UNBALANCED DOUBLE ROW – 2 x 4 STUDS					
1 hr. 	GA	Based on WP3614	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 XP 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 XP 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 inserted in 2" H-studs spaced 24" o.c. Minimum 3/4" air space between shaftliner and adjacent construction. 5/8" SoundBreak XP Gypsum Board vertically applied 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**

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

National Gypsum®