

Gold Bond® SoundBreak XP Retrofit® Gypsum Board

09 29 00 / NGC

Technical Information
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DESCRIPTION

Gold Bond® SoundBreak XP Retrofit® Gypsum Board consists of a high-density mold-, mildew- and moisture-resistant gypsum board with specially designed PURPLE® paper on the front and a sound-damping, viscoelastic polymer adhered to the back paper. This acoustically enhanced, fire-resistant gypsum core is encased in heavy, 100% recycled paper on both sides that offers superior abrasion, mold, mildew and moisture resistance.

Use SoundBreak XP Retrofit on one side of a gypsum board wall to improve the acoustical performance by creating a constrained damping layer when installed over the existing surface.

GridMarX® are printed on the face paper surface to help installers instantly identify stud locations and make accurate cuts without having to pencil in or snap chalk lines.

BASIC USES

Applications

Use SoundBreak XP Retrofit to improve the acoustical performance of an existing wall assembly, and to achieve a higher Sound Transmission Class (STC) rating for existing interior gypsum board walls where sound transmission has become a concern.

Install 5/16" (7.9 mm) thick SoundBreak XP Retrofit over existing interior gypsum board walls in residential, multifamily and commercial applications for additional sound damping between rooms or dwelling units.

Advantages

- When installing over an existing interior wall assembly, SoundBreak XP Retrofit enhances Sound Transmission Class (STC) values per an independent third-party acoustical laboratory using ASTM E90 test procedures.
- Achieves increased STC values in a thinner wall assembly, increasing usable floor space.
- Superior sound damping, cost-efficient material that finishes easily and decorates in the same manner as standard gypsum board.
- For speed of installation and lower installation costs, vertical board joints do not require acoustical sealant.
- Heavy abrasion-resistant paper and dense core provide greater resistance to surface abuse when tested in accordance with ASTM C1629.
- Resists the growth of mold per ASTM D3273 with a score of 10, the best possible score.
- Resists the growth of mold per ASTM G21 with a score of 0, the best possible score.
- Features SPORGARD® technology with extra mold-inhibiting properties.
- Fire-resistant material with a gypsum core will not support combustion or transmit temperatures greatly in excess of 212°F (100°C) until completely calcined, a slow process.
- Easily scored and snapped to exact size without sawing.
- Dimensionally stable product with negligible expansion and contraction under normal atmospheric conditions.
- Features GridMarX guide marks on the board to allow for faster and more accurate installation.
- Achieves UL GREENGUARD Gold Certification for low chemical emissions into indoor air during product usage. For more information, visit: ul.com/gg.
- Qualifies as a low-VOC emitting material by meeting California Specification 01350. For more information, visit: calrecycle.ca.gov/greenbuilding/specs/section01350.

INSTALLATION RECOMMENDATIONS

SoundBreak XP Retrofit Gypsum Board

- Remove all wall moldings, outlet and switch plates before installing SoundBreak XP Retrofit Board.
- For optimum performance, install acoustical putty pads on all electrical outlet and switch boxes.
- To install the board, locate framing members and temporarily mark their location on the floor and/or ceiling. Next, apply three 1/2" beads of construction adhesive complying with ASTM C557 to the back of SoundBreak XP Retrofit, parallel to the long edge. Use a 1/4" deep notched spreader to evenly distribute construction adhesive.
- Starting in the corner, stand the board up vertically against the wall making sure it is plumb. The PURPLE face side should be visible to the installer. Secure the board to the framing members with 1-1/2" (38.1 mm) drywall screws across the top, middle and bottom of the board. Ensure the board is tight to the existing surface. Additional fasteners may be needed.
- Ensure the gaps around the perimeter of the wall are sealed air tight with latex or acoustical sealant.
- Finish corners with joint tape and compound and spot fastener heads in the same manner as traditional gypsum board.
- After joint compound is dry and sanded, reinstall wall moldings.
- Decorate using conventional primer and paint.
- Reinstalling outlet and switch plates may require the use of box extensions.

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Job Name _____

Contractor _____ Date _____

Submittal Approvals: (Stamps or Signatures)

SoundBreak XP
RETROFIT

Gold Bond® SoundBreak XP Retrofit® Gypsum Board

TECHNICAL DATA

Physical Properties		SoundBreak XP Retrofit
Thickness ¹ , Nominal		5/16" (7.9 mm)
Width ¹ , Nominal		4' (1,219 mm)
Length ^{1,4} , Standard		10' (3,048 mm)
Weight, Nominal		1.3 – 1.4 lbs./sq. ft. (6.35 – 6.84 k/m ²)
Edges ¹		Slightly Tapered
Flexural Strength ¹ , Perpendicular		≥ 62 lbf. (276 N)
Flexural Strength ¹ , Parallel		≥ 21 lbf. (93 N)
Humidified Deflection ¹		N/A
Nail Pull Resistance ¹		≥ 46 lbf. (205 N)
Hardness ¹ – Core, Edges and Ends		≥ 11 lbf. (49 N)
Bending Radius		N/A
Thermal Resistance ⁵		N/A
Permeance ⁶		N/A
Mold Resistance ⁷ , ASTM D3273		Score of 10
Mold Resistance ⁸ , ASTM G21		Score of 0
Surface Abrasion ⁹		Level 3
Indentation ⁹		N/A
Soft-Body Impact ⁹		N/A
Hard-Body Impact ⁹		N/A
Product Standard Compliance		ASTM C1396
Fire-Resistance Characteristics		
Core Type		N/A
UL Type Designation		N/A
Combustibility ²		Non-combustible Core
Surface Burning Characteristics ³		Class A
Flame Spread ³		15
Smoke Development ³		0
Applicable Standards and References		
ASTM C473 Standard Test Methods for Physical Testing of Gypsum Panel Products		
ASTM C518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus		
ASTM C840 Standard Specification for Application and Finishing of Gypsum Board		
ASTM C1396 Standard Specification for Gypsum Board		
ASTM C1629 Standard Classification for Abuse Resistant Nondecorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels		
ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber		
ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials		
ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements		
ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials		
ASTM E136 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C		
ASTM G21 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi		
Gypsum Association, GA-214, Levels of Finish for Gypsum Panel Products		
Gypsum Association, GA-216, Application and Finishing of Gypsum Panel Products		
Gypsum Association, GA-238, Guidelines for Prevention of Mold Growth on Gypsum Board		
Gold Bond Building Products, LLC Manufacturer Standards, NGC Construction Guide		
1. Specified values per ASTM C1396, tested in accordance with ASTM C473.		
2. Tested in accordance with ASTM E136.		
3. Tested in accordance with ASTM E84.		
4. Please consult your local sales representative for all non-standard lengths and widths. Minimum order requirements may apply.		
5. Tested in accordance with ASTM C518.		
6. Tested in accordance with ASTM E96.		
7. Tested in accordance with ASTM D3273 and rated in accordance with ASTM D3274.		
8. Tested in accordance with ASTM G21.		
9. Tested in accordance with ASTM methods in ASTM C1629 – D4977 (Surface Abrasion), D5420 (Indentation), E695 (Soft-Body Impact), Annex A1 (Hard-Body Impact).		



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General

- Install gypsum board in accordance with methods described in ASTM C840 and GA-216.
- GridMarX provides quick identification and uniform nail/screw patterns. Use GridMarX to make accurate cuts without drawing lines. GridMarX guide marks run the length of the board at five points in 4" (102 mm) increments. Marks run along the edge in both tapers and at 16" (406 mm), 24" (610) and 32" (813 mm) in the field of the board. The marks cover easily with no bleed-through using standard paint products.
- Locate gypsum board joints at openings so that no joint will occur within 12" (305 mm) of the edges of the opening unless installing control joints at these locations.
- Hold SoundBreak XP Retrofit Gypsum Board in firm contact with the existing gypsum board while driving fasteners. Set fasteners with heads slightly below the surface of the board. Take care to avoid breaking the face paper of the gypsum board. Remove improperly driven screws.
- Maintain a room temperature of not less than 40°F (4°C) during application of gypsum board.
- Maintain a room temperature of not less than 50°F (10°C) when using adhesive to attach gypsum board and during joint treatment, texturing and decoration, beginning 48 hours prior to application and continuously thereafter until completely dry. Maintain adequate ventilation in the working area during installation and curing period.

Mold and Mildew Resistance

- SoundBreak XP Retrofit 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 Retrofit Board received the highest possible ratings on ASTM G21 and ASTM D3273.
- 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 Retrofit 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.

Accessories

Use quality products, such as 1-1/2" (38.1 mm) drywall screws, construction adhesive (ASTM C557), latex or acoustical sealant, joint tape and setting compounds.

Guidelines for Optimum Performance and Sound Reduction

- Stagger gypsum board joints from one side of the partition to the other.
- Allow a 1/4" gap along all wall perimeter edges and completely seal 1/4" gap with acoustical sealant.
- Refrain from wall penetrations when possible.
- Limit necessary wall penetrations to one per stud cavity.
- Seal all penetrations with acoustical sealant or putty pads.

Finishing

Refer to GA-214, *Levels of Finish for Gypsum Panel Products*, to determine the level of finishing needed to assure a surface properly prepared to accept the desired decoration.

Decoration

Ensure gypsum board surfaces, including finished joints, are clean, dust-free and gloss-free to achieve best painting results. Apply a coat of a quality drywall primer to equalize the porosities between surface paper and joint compound, improving fastener and joint concealment.

Selection of paint to provide desired finish characteristics is the responsibility of the architect or contractor.

Prepare and prime gypsum boards prior to decoration.

Refer to GA-214 to determine the level of finishing needed to assure a surface properly prepared to accept the desired decoration.

Critical Lighting Areas

Wall and ceiling areas abutting window mullions or skylights, long hallways, and atriums with large surface areas washed with artificial or natural lighting are a few examples of critical lighting areas. Strong side lighting from windows or surface-mounted light fixtures may reveal minor surface imperfections. Light striking the surface obliquely, at a slight angle, exaggerates surface irregularities. If you cannot avoid critical lighting, minimize the effects by skim coating the gypsum board surfaces, by decorating the surface with medium to heavy textures, or by the use of draperies and blinds, which soften shadows. In general, paints with sheen levels other than flat, enamel paints, and dark-toned paint finishes highlight surface defects; consider using textures to hide these minor visual imperfections. Finish boards to a Level 5 finish, as outlined in GA-214.

LIMITATIONS

- Do not use on ceilings.
- Doors and windows will reduce the acoustical performance of a partition and may limit the effectiveness of SoundBreak XP Retrofit Board.
- Avoid exposure to excessive or continuous moisture and extreme temperatures. Do not expose SoundBreak XP Retrofit to temperatures exceeding 125°F (52°C) for extended periods of time.
- Store SoundBreak XP Retrofit off the ground and under cover. To prevent sagging, use sufficient risers to ensure support for the entire length of the gypsum board.
- Keep SoundBreak XP Retrofit dry to minimize the potential for mold growth. Take adequate care while transporting, storing, applying and maintaining SoundBreak XP Retrofit 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 gypsum.org.
- Do not use power tools to cut the gypsum board.
- Do not install or treat joints until the building is properly enclosed. Do not install in pre-rock conditions.



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FOR MORE INFORMATION

Architectural Specifications

Gold Bond Building Products CSI MasterFormat® 3-part guide specifications are downloadable as editable Microsoft® Word documents at: goldbondbuilding.com.

Latest Technical Information and Update

Visit goldbondbuilding.com or call National Gypsum Company Construction Services: 1-800-NATIONAL (628-4662).

Technical Information Información Técnica

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Gypsum®

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