Gold Bond® SoundBreak® XP® Gypsum Board

DESCRIPTION

Gold Bond® SoundBreak® XP® Gypsum Board consists of two pieces of high-density, mold-, mildew- and moisture-resistant gypsum board, with a specially designed PURPLE® paper, laminated together with a sound-damping, viscoelastic polymer. This acoustically enhanced, fire-resistant gypsum core is encased in heavy paper that is 100% recycled on both sides and offers superior abrasion and mold, mildew and moisture resistance. Available in 1/2", 5/8" and 3/4" thicknesses.

Use it for high-rated Sound Transmission Class (STC) rated wall and ceiling assemblies, where sound transmission between rooms or dwelling units is a concern.

SoundBreak® XP® Fire-Shield C™ Gypsum Board provides higher Sound Transmission Class (STC) and Impact Insulation Class (IIC) values than standard gypsum board when applied to the underside of floor-ceiling assemblies where airborne sound transmission and structurally transmitted sound are a concern.

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 it for interior wall assemblies, where sound transmission between rooms or dwelling units is a concern.
- Apply 3/4" to floor ceiling assemblies where airborne sound transmission and structurally transmitted sound are a concern and high Sound Transmission Class (STC) and Impact Insulation Class (IIC) values are desired.
- 5/8" (15.9 mm) features a fire-resistant Type X core and is UL classified and approved for use in specific UL fire-rated designs, applied vertical only.
- 3/4" (19.1 mm) features a fire-resistant Type C core and is an approved component in UL fire-rated designs, applied vertical only.
- Use 3/4" (19.1 mm) to provide a 1-hour fire-rating in specific UL floor-ceiling designs.

Advantages

- Provides high-rated Sound Transmission Class (STC) values per an independent third-party acoustical laboratory using ASTM E90 test procedures.
- 3/4" provides high-rated IIC values per an independent third-party acoustical laboratory using ASTM E492 test procedures.
- Achieves high STC values in a thinner wall assembly, increasing usable floor space.
- Provides STC Ratings up to 56 for single-layer, steel stud partitions and up to 67 for area separation walls.
- 3/4" In specific floor-ceiling assemblies, provides both STC and IIC ratings above 60.
- 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.
- 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.
- Heavy abrasion-resistant paper and dense core provide greater resistance to surface abuse and indentation when tested in accordance with ASTM C1629.
- Installs like traditional gypsum board without requiring additional clips or channels.
- Cuts by scoring deeply from both sides before snapping or by using a hand or power saw.
- Fire-resistant material will not support combustion or transmit temperatures greatly in excess of 212˚F (100˚C) until completely calcined, a slow process.
- Dimensionally stable product with negligible expansion and contraction under normal atmospheric conditions.
- Save time and money with MaX 12® and MaX 16® optimized fastener patterns for 5/8" Fire-Shield products to achieve 1-hour fire ratings using fewer fasteners. Visit **GridMarX.com** for more information.
- Features the GridMarX guidemarks 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**.

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Job Name _____

Contractor _____ Date _____

Submittal Approvals: (Stamps or Signatures)

SoundBreak XP

Gold Bond® SoundBreak® XP® Gypsum Board

TECHNICAL DATA

Physical Properties	SoundBreak XP	SoundBreak XP Fire-Shield	SoundBreak XP Fire-Shield C
Thickness[1], Nominal	1/2"(12.7 mm)	5/8" (15.9 mm)	3/4" (19.1 mm)
Width[1], Nominal	4' (1,219 mm)	4' (1,219 mm)	4' (1,219 mm)
Length[1,4], Standard	8' – 12' (2,438 mm - 3,658 mm)	8' – 12' (2,438 mm - 3,658 mm)	8' – 10' (2,438 mm - 3,048 mm)
Weight, Nominal	2.3 lbs./sq. ft. (11.23 k/m^2)	2.7 lbs./sq. ft. (13.18 k/m^2)	2.9 lbs./sq. ft. (14.16 k/m^2)
Edges[1]	Slightly Tapered	Slightly Tapered	Slightly Tapered
Flexural Strength[1], Perpendicular	≥ 107 lbf. (476 N)	≥ 147 lbf. (654 N)	≥ 167 lbf. (743 N)
Flexural Strength[1], Parallel	≥ 36 lbf. (160 N)	≥ 46 lbf. (205 N)	≥ 56 lbf. (249 N)
Humidified Deflection[1]	≤ 10/8" (31.8 mm)	≤ 5/8" (15.9 mm)	N/A
Nail Pull Resistance[1]	≥ 77 lbf. (343 N)	≥ 87 lbf. (387 N)	≥ 87 lbf. (387 N)
Hardness[1] – Core, Edges and Ends	≥ 11 lbf. (49 N)	≥ 11 lbf. (49 N)	≥ 11 lbf. (49 N)
Bending Radius	10' (3,048 mm)	15' (4,572 mm)	N/A
Thermal Resistance[5]	R = .45	R = .56	R = .64
Permeance[6]	45 perms	37 perms	N/A
Mold Resistance[7], ASTM D3273	Score of 10	Score of 10	Score of 10
Mold Resistance[8], ASTM G21	Score of 0	Score of 0	Score of 0
Surface Abrasion[9]	Level 3	Level 3	Level 3
Indentation[9]	Level 1	Level 1	Level 1
Soft-Body Impact[9]	Level 1	Level 2	N/A
Hard-Body Impact[9]	N/A	Level 1	N/A
Product Standard Compliance	ASTM C1396, C1766	ASTM C1396, C1766	ASTM C1396, C1766
Fire-Resistance Characteristics			
Core Type	Regular	Type X	Type C
UL Type Designation	N/A	SBWB	SBCB
Combustibility[2]	Non-combustible Core	Non-combustible Core	Non-combustible Core
Surface Burning Characteristics[3]	Class A	Class A	Class A
Flame Spread[3]	15	15	15
Smoke Development[3]	0	0	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 C1766 *Standard Specification for Factory-Laminated Gypsum Panel Products*			
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 E119 *Standard Test Methods for Fire Tests of Building Construction and 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).

SoundBreak XP

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INSTALLATION RECOMMENDATIONS

General

- Install gypsum board in accordance with methods described in ASTM C840 and GA-216 and tested fire- and sound-rated assemblies.
- Examine and inspect framing materials to which gypsum board is to be applied. Remedy all defects prior to installation of the gypsum board.
- 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 mm) and 32" (813 mm) in the field of the board. The marks cover easily with no bleed-through using standard paint products.
- Apply gypsum board first to ceilings at right angles to framing members, then to walls. Use boards of maximum practical length so that the minimum number of end joints occur. Bring board edges into contact with each other but do not force into place.
- Install batt or blanket ceiling insulation ***before*** the gypsum board on ceilings when installing a vapor retarder behind the gypsum board. Install the insulation ***immediately*** after the gypsum board when using loose fill insulation. Avoid installation practices that might allow condensation to form behind boards.
- The use of a hand or electric saw is recommended for cutting 3/4" SoundBreak XP Fire-Shield C Gypsum Board.
- Cut gypsum board to allow for a minimum 1/4" (6.4 mm) gap between gypsum board and floor to prevent potential wicking of moisture.
- Provide minimum 1/4" (6.4 mm) clearance between boards and adjacent concrete or masonry to minimize wicking of moisture.
- Locate gypsum board joints at openings so that no joint will align within 12" (305 mm) of the edges of the opening unless installing control joints at these locations. Stagger vertical end joints. Joints on opposite sides of a partition should not occur on the same stud.
- Hold gypsum board in firm contact with the framing member while driving fasteners. Fastening should proceed from center portion of the board toward the edges and ends. 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 nails or 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.

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.

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.

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

Prepare and prime gypsum boards prior to texturing.

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

Ceiling areas abutting 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 ceiling 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. If necessary, finish boards to a Level 5 finish, as outlined in GA-214.

LIMITATIONS

- Avoid exposure to excessive or continuous moisture and extreme temperatures. Do not expose gypsum board to temperatures exceeding 125˚F (52˚C) for extended periods of time.
- Properly ventilate or condition attic spaces to remove moisture buildup above gypsum board ceilings. If required, install a vapor retarder in exterior ceilings behind gypsum board.
- Avoid installing gypsum board directly over insulation blankets with facer flanges placed continuously across the face of the framing members; recess insulation blankets and attach flanges to the sides of framing.
- Isolate gypsum board from contact with building structure in locations where structural movement may impose direct loads on gypsum board assemblies.
- Provide control joints spaced not more than 30' (9,144 mm) where employing long continuous runs of walls, partitions or ceilings without perimeter relief.
- Avoid gypsum board joints within 12" (305 mm) of the corners of window or door frames unless installing control joints at these locations.
- In single-ply installation, all ends and edges of gypsum board should occur over framing members or other solid backing except where treated joints occur at right angles to framing or furring members.
- Apply 1/2" (12.7 mm) gypsum board ceilings to be decorated with water-based spray texture perpendicular to the framing spaced a maximum of 16" (406 mm) o.c.
- Space supporting framing for single-layer application of 1/2" (12.7 mm) gypsum board a maximum of 24" (610 mm) o.c.
- Do not use boards as a nailing base as they are nonstructural.
- Avoid using in areas subject to constant and/or excessive moisture and high humidity, such as gang showers, saunas, steam rooms or swimming pool enclosures.
- Avoid using as a backer board directly behind tile in tub and shower areas.
- Do not install or treat joints until the building is properly enclosed. Do not install in pre-rock conditions.

FOR MORE INFORMATION

GREENGUARD GOLD

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818

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*
1-800-NATIONAL®
1-800-628-4662

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National Gypsum®

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