Gold Bond® XP® Ultra-Shield FS® Gypsum Board

Technical Information
800.NATIONAL • 800.628.4662

DESCRIPTION

Gold Bond® XP® Ultra-Shield FS® Gypsum Board is 3/4" thick and consists of a mold-, mildew-, moisture- and fire-resistant gypsum core encased in 100% recycled paper on the face and back sides. The PURPLE face paper is folded around the long edges to reinforce and protect the core, and the ends are cut square and finished smooth.

Use it for 2- and 3-hour wall partitions and 2-hour cavity shaftwall assemblies to reduce material and installation labor.

The core allows one layer of 3/4" XP Ultra-Shield FS to replace two layers of 5/8" Type X, or two layers of 3/4" XP Ultra-Shield FS to replace three layers of 5/8" Type X, in specific UL assemblies.

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.

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.

BASIC USES

Applications

Use 3/4" XP Ultra-Shield FS Gypsum Board to achieve increased resistance to fire, mold, mildew and moisture, and to reduce sound transmission.

Advantages

- Reduces labor and material costs by using fewer layers (up to 10%).
- UL Classified for fire resistance, surface-burning characteristics and non-combustibility.
- Cost-efficient material that readily accepts a wide range of decorative finishes.
- Cuts easily for quick installation, permitting painting or other decoration and the installation of metal or wood trim almost immediately.
- The gypsum core will not support combustion or transmit temperatures greatly in excess of 212˚F (100˚C) until completely calcined, a slow process.
- Dimensionally stable under changes in temperature and relative humidity and resists warping, rippling, buckling and sagging.
- Features the GridMarX preprinted fastening guide on the board to allow for faster and more accurate installation.
- 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.
- 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.

INSTALLATION RECOMMENDATIONS

General

- Install gypsum board in accordance with methods described in ASTM C840 and GA-216.
- 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.
- 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.
- Provide minimum 1/4" (6.4 mm) clearance between boards and adjacent concrete or masonry to minimize wicking of moisture.
- 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.

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Job Name _____

Contractor _____ Date _____

Submittal Approvals: (Stamps or Signatures)

XP® FIRE-SHIELD®

Gold Bond® XP® Ultra-Shield FS® Gypsum Board

TECHNICAL DATA

Physical Properties	XP Ultra-Shield FS
Thickness[1], Nominal	3/4" (19.1 mm)
Width[1], Nominal	4' (1,219 mm)
Length[1,4], Standard	8' – 12' (2,438 mm – 3,658 mm)
Weight, Nominal	2.85 lbs./sq. ft. (13.91 k/m^2)
Edges[1]	Tapered
Flexural Strength[1], Perpendicular	≥ 167 lbf. (743 N)
Flexural Strength[1], Parallel	≥ 56 lbf. (249 N)
Humidified Deflection[1]	≤ 5/8" (15.9 mm)
Nail Pull Resistance[1]	≥ 97 lbf. (432 N)
Hardness[1] – Core, Edges and Ends	N/A
Thermal Resistance[5]	R = .64
Mold Resistance[6], ASTM D3273	Score of 10
Mold Resistance[7], ASTM G21	Score of 0
Product Standard Compliance	ASTM C 1396
Fire-Resistance Characteristics	
Core Type	Type X
UL Type Designation	Ultra-Shield
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 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 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 D3273 and rated in accordance with ASTM D3274.
7. Tested in accordance with ASTM G21.

XP® FIRE-SHIELD®

(*Continued from page 1*)

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 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 on single layer, or on the face layer on two-layer applications within 12" (305 mm) of the corners of window or door frames unless installing control joints at the door frame corners.
- Space supporting framing for single-layer application of 3/4" (19.1 mm) gypsum board a maximum of 24" (610 mm) o.c.

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
1-800-NATIONAL®
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The Gold Bond family of products is manufactured by Gold Bond Building Products, LLC.

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