Gold Bond[®] High Strength Fire-Shield 30[®] Gypsum Board

Technical Information 800.NATIONAL • 800.628.4662

DESCRIPTION

Gold Bond® High Strength Fire-Shield 30® Gypsum Board consists of a fire-resistant non-Type X gypsum core encased in heavy,natural finish, 100% recycled paper on the face and back sides. It is formulated to be 30% lighter than standard Type X Gypsum Board. The face paper is folded around the long edges to reinforce and protect the core.

High Strength Fire-Shield 30 is approved for single layer gypsum board construction for 30-minute fire-rated or non-rated 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.

BASIC USES

Applications

Use High Strength Fire-Shield 30 Gypsum Board for single-layer construction in 30 minute fire-rated or non-rated assemblies.

Advantages

- Features a fire-resistant non-Type X core and is UL Classified and approved for inclusion on specific UL fire-rated designs.
- 30% lighter than standard 5/8" (15.9 mm) Type X gypsum board, which results in easier handling.
- Cuts easily for quick installation, permitting painting or other decoration and the installation of metal or wood trim almost immediately.
- Excellent working properties, including score and snap, reduced dust and improved strength-to-weight ratio.
- Fire-resistant material with a gypsum core that 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.
- 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

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.
- Cut gypsum board to allow for a minimum 1/4" (6.4 mm) gap between gypsum board and floor to prevent potential wicking.
- 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. 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 the 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.

(Continued on page 3)

Tel Messe	
Job Name	
Contractor	Date
Submittal Ap	provals: (Stamps or Signatures)



Gold Bond' High Strength Fire-Shield 30' Gypsum Board

TECHNICAL DATA

Length'*, Standard 8' − 12' (2,438 − 3,658 mm) Weight, Nominal 1.6 − 1.8 lbs./sq. ft. (7.81 − 8.79 k/m²) Edges¹ Tapered or Square Flexural Strength¹, Perpendicular ≥ 147 lbf. (654 N) Flexural Strength¹, Parallel ≥ 46 lbf. (205 N) Humidified Deflection¹ ≥ 5/8' (15.9 mm) Nait Pull Resistance¹ ≥ 87 lbf. (387 N) Hardness¹ − Core, Edges and Ends ≥ 11 lbf. (49 N) Bending Radius 15' (4,572 mm) Thermal Resistance³ R = .56 Product Standard Compliance ASTM C1396 Fire-Resistance Characteristics Core Type UL Type Designation FSL30 Combustibility² Non-combustible Core Surface Burning Characteristics³ Class A Flame Spread³ 15 Smoke Development³ 0 Applicable Standard Fest Methods for Physical Testing of Gypsum Panel Products ASTM C473 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	Physical Properties	High Strength Fire-Shield 30
Length¹-ʿ, Standard Weight, Nominal 1.6 − 1.8 lbs./sq. ft. (7.81 − 8.79 k/m²) Edges¹ Tapered or Square Flexural Strength¹, Perpendicular Flexural Strength¹, Parallel ≥ 147 lbf. (654 N) Flexural Strength¹, Parallel ≥ 46 lbf. (205 N) Humidified Deflection¹ ≥ 5/8′ (15,9 mm) Nail Pull Resistance¹ ≥ 87 lbf. (387 N) Hardness¹ − Core, Edges and Ends ≥ 11 lbf. (49 N) Bending Radius 15 (4,572 mm) Thermal Resistance³ R = .56 Product Standard Compliance Fire-Resistance Oharacteristics Core Type Non-Type X UL Type Designation Combustibility² Non-combustible Core Surface Burning Characteristics³ Class A Flame Spread³ 15 Smoke Development³ 0 ASTM C473 Standard Test Methods for Physical Testing of Gypsum Panel Products ASTM C518 Standard Specification for Application and Finishing of Gypsum Board ASTM C843 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 C843 Standard Test Method for Surface Burning Characteristics of Building Materials ASTM E84 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C Gypsum Association, GA-216, Application and Finishing of Gypsum Panel Products Gypsum Association, GA-216, Application and Finishing of Gypsum Panel Products Gypsum Association, GA-216, Application and Finishing of Gypsum Panel Products Gypsum Association, GA-216, Application and Finishing of Gypsum Panel Products Gypsum Association, GA-216, Application and Finishing of Gypsum Panel Products Gypsum Association, GA-216, Application and Finishing of 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	Thickness ¹ , Nominal	5/8" (15.9 mm)
Weight, Nominal 1.6 − 1.8 lbs./sq. ft. (7.81 − 8.79 k/m²) Edges¹ Tapered or Square Flexural Strength¹, Perpendicular ≥ 147 lbf. (654 N) Flexural Strength¹, Parallel ≥ 46 lbf. (205 N) Humidified Deflection¹ ≥ 578° (15.9 mm) Nail Pull Resistance¹ ≥ 87 lbf. (387 N) Hardness¹ - Core, Edges and Ends ≥ 11 lbf. (49 N) Bending Radius 15′ (4,572 mm) Thermal Resistance³ R = .56 Product Standard Compliance ASTM C1396 Fire-Resistance Characteristics Stream Compliance Core Type Non-Type X U. Type Designation FSL30 Combustibility³ Non-combustible Core Surface Burning Characteristics² Class A Flame Spread³ 15 Smoke Development³ 0 Applicable Standard Test Methods for Physical Testing of Gypsum Panel Products ASTM C473 Standard Test Methods for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus ASTM C1840 Standard Specification for Surface Burning Characteristics of Building Materials ASTM C1940 Standard Test Method for Surface Burning Characteristics of Building Materials ASTM C1940 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C Gypsum Association, GA-216, Application and Finishing of Gypsum Panel Products <td>Width¹, Nominal</td> <td>4' (1,219 mm)</td>	Width ¹ , Nominal	4' (1,219 mm)
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Flexural Strength', Perpendicular Flexural Strength', Parallel ≥ 46 lbf. (205 N) Humidified Deflection¹ ≥ 5/8° (15,9 mm) Nail Pulk Resistance² ≥ 87 lbf. (387 N) Hardness¹ – Core, Edges and Ends ≥ 11 lbf. (49 N) Bending Radius 15° (4,572 mm) Thermal Resistance³ R = 56 Product Standard Compliance Fire-Resistance Characteristics Core Type Non-Type X UL Type Designation Combustibility² Non-combustibility² Non-combustibility? Non-combustibility? Non-combustibility? Non-combustibility? Non-combustibility? Non-combustibility? Non-combustibility? Non-combustibility Core Surface Burning Characteristics of Bustom of Surface Durning Characteristics of Bustom of the Heat Flow Meter Apparatus ASTM C518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus ASTM C518 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus ASTM C1396 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus ASTM C1396 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus ASTM C1396 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus ASTM C1396 Stand	Weight, Nominal	1.6 - 1.8 lbs./sq. ft. (7.81 - 8.79 k/m²)
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Nait Pull Resistance¹ ≥ 87 lbf. (387 N) Hardness¹ - Core, Edges and Ends ≥ 11 lbf. (49 N) Bending Radius 15′ (4,572 mm) Thermal Resistance³ R = .56 Product Standard Compliance ASTM C1396 Fire-Resistance Characteristics Core Type Non-Type X UL Type Designation FSL30 Combustibility² Non-combustible Core Surface Burning Characteristics³ Class A Flame Spread³ 15 Smoke Development³ 0 ASTM C1396 ASTM C473 Standard Test Methods for Physical Testing of Gypsum Panel Products ASTM C518 Standard Specification for Application and Finishing of Gypsum Board ASTM C840 Standard Test Method for Surface Burning Characteristics of Building Materials ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials ASTM E84 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 °C Gypsum Association, GA-216, Application and Finishing of Gypsum Panel Products Gypsum Association, GA-216, Application and Finishing of Gypsum Panel Products Gypsum Association, GA-216, Application and Finishing of Gypsum Panel Products Gypsum Association, GA-216, Application and Finishing of 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	Flexural Strength ¹ , Parallel	≥ 46 lbf. (205 N)
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Gold Bond Building Products, LLC Manufacturer Standards, NGC Construction Guide	Gypsum Association, GA-238, Guidelines for Prevention of Mold	Growth on Gypsum Board
	Gold Bond Building Products, LLC Manufacturer Standards, N	GC 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.



Gold Bond High Strength Fire-Shield 30 Gypsum Board

(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 gypsum board 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 ensure 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 the use of textures to hide these minor visual imperfections.

LIMITATIONS

- Do not substitute High Strength Fire-Shield 30 for Type X Gypsum Board as 5/8" High Strength Fire-Shield 30 is not classified as a Type X.
- Avoid exposure to 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 no 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.
- Space supporting framing for single-layer application of 5/8" (15.9 mm) gypsum board a maximum of 24" (610 mm) o.c.
- To prevent objectionable sag in gypsum paneled ceilings, the weight of overlaid unsupported insulation should not exceed the following recommendations:

Ceiling-Supported Insulation		
Thickness, Nominal	5/8" (15.9 mm)	
Framing Spacing	24" (610 mm) o.c.	
Weight of Ceiling-Supported Insulation	2.2 psf (10.7 kg/m²)	

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.



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