



Gold Bond® XP® Fire-Shield® 5/16" Gypsum Board

For Use on Curved, Fire Rated Wall Assemblies

Gold Bond® XP® Fire-Shield® 5/16" Gypsum Board consists of a mold-, mildew-, moisture- and fire-resistant Type X gypsum core with a specially designed PURPLE® paper. The PURPLE face paper is a heavy paper that is 100% recycled and offers superior mold, mildew and moisture resistance. The 100% recycled gray back paper is also mold-, mildew- and moisture resistant. Used in the construction of multi-layered, fire rated wall assemblies. Specifically engineered for radius applications requiring a fire rating.

ADVANTAGES

- Use it in both wood and metal framed construction for curved walls providing enhanced moisture and mold resistance.
- 1- and 2-hour fire ratings available.
- Excellent mold and moisture resistance — highest possible scores on ASTM D3273 and ASTM G21.
- Scores and snaps easily to exact size without sawing.
- XP products achieved GREENGUARD Gold Certification. GREENGUARD certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit: ul.com/gg.
- Qualifies as a low-emitting material per California Section 01350 and CDPH Standard Method, v1.2. For more information, visit: calrecycle.ca.gov.

FINISHING

- Refer to GA-214, *Recommended Levels of Finish for Gypsum Board, Glass Mat and Fiber-Reinforced Gypsum Panels*, to determine the level of finishing needed to assure a surface properly prepared to accept the desired decoration.

SIZE

Product	Thickness	Width	Lengths
Gold Bond® XP® Fire-Shield® 5/16" Gypsum Board	5/16"	4'	8', 10' & 12'

FEATURES

- Engineered for curved applications requiring a fire-rated assembly with 1- and 2-hour fire ratings. Ratings based on assemblies tested in accordance with ASTM E119.
- More design options than traditional 5/8" gypsum board through layered shapes



TECHNICAL DATA

Physical Properties		XP Fire-Shield 5/16"
Thickness ¹ , Nominal		5/16" (7.9 mm)
Width ¹ , Nominal		4' (1,219 mm)
Length ^{1,4} , Standard		8' – 12' (2,438 – 3,657 mm)
Weight, Nominal		1.3 – 1.4 lbs./sq. ft. (6.35 – 6.84 k/m ²)
Edges ¹		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		2' (610 mm)
Thermal Resistance ⁵		N/A
Permeance ⁶		22 perms
Water Absorption ¹ (% of Weight)		< 5%
Mold Resistance ⁶ , ASTM D3273		Score of 10
Mold Resistance ⁸ , ASTM G21		Score of 0
Product Standard Compliance		ASTM C1396
Fire-Resistance Characteristics		
Core Type		N/A
UL Type Designation		FSW
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 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, <i>Recommended Levels of Finish for Gypsum Board, Glass Mat and Fiber-Reinforced Gypsum Panels</i>		
Gypsum Association, GA-216, <i>Application and Finishing of Gypsum Panel Products</i>		
Gypsum Association, GA-238, <i>Guidelines for Prevention of Mold Growth on Gypsum Board</i>		
Gold Bond Building Products, LLC Manufacturer Standards, <i>NGC Construction Guide</i>		

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.
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.



National Gypsum Company is the exclusive service provider for products manufactured by Gold Bond Building Products, LLC.

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