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

Overview
Gold Bond® BRAND 5/16” XP® Fire-Shield® 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-percent recycled and offers superior mold, mildew and moisture resistance. The 100-percent recycled gray back paper is also mold-, mildew- and moisture resistant.

FINISHING
Tapered edges allow joints to be reinforced with ProForm® BRAND Joint Tape and concealed with ProForm® BRAND Ready Mix Joint Compounds or ProForm® BRAND Quick Set® Setting Compounds. For optimum mold performance, use ProForm® BRAND XP® All Purpose or ProForm® BRAND XP® Lite Joint Compounds.

AVAILABLE SIZES
Board is 5/16 in. thick, 4 ft wide, and comes in 8, 10 and 12-ft lengths

ADVANTAGES
- Use it in both wood and metal framed construction for curved walls providing enhanced moisture and mold resistance.
- One- and two-hour fire ratings available.
- 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.
- Scores and snaps easily to exact size without sawing.
- Achieves GREENGUARD and 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.

Engineered for radius applications requiring a fire-rated assembly with one-and two-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.

Excellent XP® mold and moisture resistance — highest possible scores on ASTM D3273 and ASTM G 21.
# Technical Overview

## Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness, Nominal</td>
<td>5/16&quot; (7.94 mm)</td>
</tr>
<tr>
<td>Width, Nominal</td>
<td>4' (1,219 mm)</td>
</tr>
<tr>
<td>Length, Standard</td>
<td>8', 10', 12' (2,438, 3,048, 3,658 mm)</td>
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<tr>
<td>Weight, Nominal</td>
<td>1.3 - 1.4 lbs./sq. ft. (6.35 - 6.84 kg/m²)</td>
</tr>
<tr>
<td>Edges</td>
<td>Tapered</td>
</tr>
<tr>
<td>Flexural Strength, perpendicular</td>
<td>≥ 62 lbf. (276 N)</td>
</tr>
<tr>
<td>Flexural Strength, parallel</td>
<td>≥ 21 lbf. (93 N)</td>
</tr>
<tr>
<td>Humidified Deflection</td>
<td>N/A</td>
</tr>
<tr>
<td>Nail Pull Resistance</td>
<td>≥ 46 lbf. (205 N)</td>
</tr>
<tr>
<td>Hardness - core, edges and ends</td>
<td>≥ 11 lbf. (49 N)</td>
</tr>
<tr>
<td>Bending Radius</td>
<td>2' (610 mm)</td>
</tr>
<tr>
<td>Thermal Resistance</td>
<td>R = .45</td>
</tr>
<tr>
<td>Permeance</td>
<td>37 perms</td>
</tr>
<tr>
<td>Water Absorption (% of Weight)</td>
<td>&lt; 5%</td>
</tr>
<tr>
<td>Mold Resistance</td>
<td>Score of 10</td>
</tr>
<tr>
<td>Mold Resistance</td>
<td>Score of 0</td>
</tr>
</tbody>
</table>

### Specifications

- **Thermal Resistance**: R = 0.45
- **Permeance**: 37 perms
- **Water Absorption (% of Weight)**: < 5%
- **Mold Resistance**: Score of 10
- **Bending Radius**: 2' (610 mm)

## Fire-Resistance Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Type</td>
<td>Type X</td>
</tr>
<tr>
<td>UL Type Designation</td>
<td>FSW</td>
</tr>
<tr>
<td>Combustibility</td>
<td>Non-combustible Core</td>
</tr>
<tr>
<td>Surface Burning Characteristics</td>
<td>Class A</td>
</tr>
<tr>
<td>Flame Spread</td>
<td>15</td>
</tr>
<tr>
<td>Smoke Development</td>
<td>0</td>
</tr>
</tbody>
</table>

### Standards and References

- ASTM C840 Standard Specification for Application and Finishing of Gypsum Board
- ASTM C1396 Standard Specification for Gypsum Board
- ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials
- ASTM G21 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi
- Gypsum Association, GA-214, *Recommended Levels of Finish for Gypsum Board, Glass Mat and Fiber-Reinforced Gypsum Panels*
- Gypsum Association, GA-216, *Application and Finishing of Gypsum Panel Products*
- Gypsum Association, GA-238, *Guidelines for Prevention of Mold Growth on Gypsum Board*
- National Gypsum Company, NGC Construction Guide

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1. Specified values per ASTM C1396, tested in accordance with ASTM C473.
2. Tested in accordance with ASTM C840.
3. Tested in accordance with ASTM E84.
4. Tested in accordance with ASTM C518.
5. Tested in accordance with ASTM E96.
6. Tested in accordance with ASTM D3273.
7. Tested in accordance with ASTM G21.
LIMITED WARRANTY AND REMEDIES

Products manufactured and sold by National Gypsum Company are warranted by National Gypsum Company to its customers to be free from defects in materials and workmanship at the time of shipment. THIS EXPRESS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO SUCH PRODUCTS, AND IS IN LIEU OF AND EXCLUDES ALL OTHER EXPRESS ORAL OR WRITTEN WARRANTIES AND ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

National Gypsum Company will not be liable for any incidental, indirect or consequential losses, damages or expenses. The customer’s exclusive remedy for any type of claim or action for defective products will be limited to the replacement of the products (in the form originally shipped) or, at National Gypsum’s option, to a payment or credit not greater than the original purchase price of the products.

Mold And Mildew Resistance

Gold Bond® brand XP® Gypsum Board products with Sporgard™ were designed to provide extra protection against mold and mildew compared to standard wallboard products. When tested by an independent laboratory, XP Gypsum Board products with Sporgard received the highest possible ratings on ASTM G21 and 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, XP Gypsum Board products can provide increased mold resistance versus standard wallboard 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.

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Any claim that products sold by National Gypsum Company were defective or otherwise did not conform to the contract of sale is waived unless the customer submits it in writing to National Gypsum within thirty (30) days from the date the customer discovered or should have discovered the defect or non-conformance. No legal action or proceeding complaining of goods sold by National Gypsum may be brought by the customer more than one year after the date the customer discovered or should have discovered the defect or problem of which it complains.

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