Gold Bond® BRAND eXP® Interior Extreme® Gypsum Panels consist of a moisture- and mold-resistant gypsum core encased in a coated, specially designed fiberglass mat on the face, back and sides. It is available in a Regular, Type X or Type C core (often specified where the weight and number of gypsum board layers are a concern). The glass mat is folded around the long edges to reinforce and protect the core.

Use it wherever gypsum board is specified in interior applications for the entire project, wood or metal framing, for increased resistance to incidental moisture.

Sizes: 1/2 in. (12.7 mm) thick Regular Panels, 1/2 in. (12.7 mm) thick Type C Panels and 5/8 in. (15.9 mm) thick Type X or Type C Panels are available in 4 ft. (1,219 mm) widths and in standard lengths of 8 ft. (2,438 mm) to 12 ft. (3,658 mm).

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.
Basic Uses

APPLICATIONS

- Use it in both wood- and metal-framed construction for interior wall and ceiling finishing to provide increased moisture and mold resistance.
- Use it on the interior side of exterior walls, mechanical rooms and core walls where moisture exposure is more likely. Also approved for use in protected exterior soffit applications.
- Can use for pre-rock applications before the building is completely enclosed, which may shorten construction cycles.

ADVANTAGES

- Versatile product can be used throughout entire project wherever gypsum board is specified.
- May use for pre-rock applications before building is completely enclosed, which may speed installation.
- Resists the growth of mold per ASTM D3273 with a score of 10, the best possible score.
- Coated fiberglass facers for easy handling.
- Scores and snaps easily without sawing.
- Offers a 12-month extended exposure warranty for typical weather conditions. Refer to National Gypsum Company limited warranties for further details.
- Features the GridMarX® guide marks on the panel to allow for faster and accurate installation.
- 1/2 in. (12.7 mm) Fire-Shield® C, 5/8 in. (15.9 mm) Fire-Shield® Type X or Type C have specially formulated cores that are approved components in specific UL fire-rated designs.
- Achieves GREENGUARD 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.

Installation Recommendations

GENERAL

- Install gypsum panels in accordance with methods described in ASTM C840 and GA-216.
- Examine and inspect framing materials to which gypsum panels are to be applied. Remedy all defects prior to installation of the gypsum panel.
- Apply gypsum panels first to ceilings at right angles to framing members, then to walls. Use panels of maximum practical length so that the minimum number of end joints occur. Panel edges should be brought into contact with each other but not forced into place.
- Install batt or blanket ceiling insulation BEFORE the gypsum panels on ceilings when installing a polyethylene vapor barrier on ceilings behind the gypsum panels. Install the insulation IMMEDIATELY after the gypsum panels when using loose fill insulation. Avoid installation practices that allow condensation to form behind panels.
- Locate gypsum board joints at openings so that no joint will occur within 12 in. (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 panels in firm contact with the framing member while driving fasteners. Fastening should proceed from center portion of the panels toward the edges and ends. Set fasteners with heads slightly below the surface of the panels. Take care to avoid breaking the glass mat facer of the gypsum panel. Remove improperly driven nails or screws.
- Provide minimum 1/4 in. (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 panels.
- Maintain a room temperature of not less than 50°F (10°C) when using adhesive to attach the gypsum panels 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.
# TECHNICAL DATA

## PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th></th>
<th>EXP Interior Extreme</th>
<th>1/2&quot; EXP Interior Extreme Type C</th>
<th>5/8&quot; EXP Interior Extreme Type X</th>
<th>5/8&quot; EXP Interior Extreme Type C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thickness</strong>, Nominal</td>
<td>1/2&quot; (12.7 mm)</td>
<td>1/2&quot; (12.7 mm)</td>
<td>5/8&quot; (15.9 mm)</td>
<td>5/8&quot; (15.9 mm)</td>
</tr>
<tr>
<td><strong>Width</strong>, Nominal</td>
<td>4' (1,219 mm)</td>
<td>4' (1,219 mm)</td>
<td>4' (1,219 mm)</td>
<td>4' (1,219 mm)</td>
</tr>
<tr>
<td><strong>Length</strong>, Standard</td>
<td>8’ – 12’ (2,438 mm – 3,658 mm)</td>
<td>8’ – 12’ (2,438 mm – 3,658 mm)</td>
<td>8’ – 12’ (2,438 mm – 3,658 mm)</td>
<td>8’ – 12’ (2,438 mm – 3,658 mm)</td>
</tr>
<tr>
<td><strong>Weight, Nominal</strong></td>
<td>2.0 lbs. / sq. ft. (9.76 k/m²)</td>
<td>2.1 lbs. / sq. ft. (10.25 k/m²)</td>
<td>2.5 lbs. / sq. ft. (12.21 k/m²)</td>
<td>2.5 lbs. / sq. ft. (12.21 k/m²)</td>
</tr>
<tr>
<td><strong>Edges</strong></td>
<td>Tapered</td>
<td>Tapered</td>
<td>Tapered</td>
<td>Tapered</td>
</tr>
<tr>
<td><strong>Flexural Strength</strong>, Perpendicular</td>
<td>≥ 100 lbf. (445 N)</td>
<td>≥ 100 lbf. (445 N)</td>
<td>≥ 140 lbf. (623 N)</td>
<td>≥ 140 lbf. (623 N)</td>
</tr>
<tr>
<td><strong>Flexural Strength</strong>, Parallel</td>
<td>≥ 80 lbf. (356 N)</td>
<td>≥ 80 lbf. (356 N)</td>
<td>≥ 100 lbf. (445 N)</td>
<td>≥ 100 lbf. (445 N)</td>
</tr>
<tr>
<td><strong>Humidified Deflection</strong></td>
<td>≤ 5/16&quot; (7.9 mm)</td>
<td>≤ 5/16&quot; (7.9 mm)</td>
<td>≤ 4/16&quot; (6.4 mm)</td>
<td>≤ 4/16&quot; (6.4 mm)</td>
</tr>
<tr>
<td><strong>Nail Pull Resistance</strong></td>
<td>≥ 80 lbf. (356 N)</td>
<td>≥ 80 lbf. (356 N)</td>
<td>≥ 90 lbf. (400 N)</td>
<td>≥ 90 lbf. (400 N)</td>
</tr>
<tr>
<td><strong>Hardness</strong> – Core, Edges and Ends</td>
<td>≥ 15 lbf. (67 N)</td>
<td>≥ 15 lbf. (67 N)</td>
<td>≥ 15 lbf. (67 N)</td>
<td>≥ 15 lbf. (67 N)</td>
</tr>
<tr>
<td><strong>Bending Radius</strong></td>
<td>6’ (1,829 mm)</td>
<td>6’ (1,829 mm)</td>
<td>8’ (2,438 mm)</td>
<td>8’ (2,438 mm)</td>
</tr>
<tr>
<td><strong>Thermal Resistance</strong></td>
<td>R = .43</td>
<td>R = .43</td>
<td>R = .50</td>
<td>R = .50</td>
</tr>
<tr>
<td><strong>Permeance</strong></td>
<td>22 perms</td>
<td>22 perms</td>
<td>19 perms</td>
<td>19 perms</td>
</tr>
<tr>
<td><strong>Water Absorption</strong></td>
<td>≤ 5%</td>
<td>≤ 5%</td>
<td>≤ 5%</td>
<td>≤ 5%</td>
</tr>
<tr>
<td><strong>Surface Water Absorption</strong></td>
<td>≤ 1.6 grams</td>
<td>≤ 1.6 grams</td>
<td>≤ 1.6 grams</td>
<td>≤ 1.6 grams</td>
</tr>
<tr>
<td><strong>Linear Expansion with Change Moisture</strong></td>
<td>6.25 x 10^-6 in./in./%RH</td>
<td>6.25 x 10^-6 in./in./%RH</td>
<td>6.25 x 10^-6 in./in./%RH</td>
<td>6.25 x 10^-6 in./in./%RH</td>
</tr>
<tr>
<td><strong>Coefficient of Thermal Expansion</strong></td>
<td>9.26 x 10^-6 in./in./˚F</td>
<td>9.26 x 10^-6 in./in./˚F</td>
<td>9.26 x 10^-6 in./in./˚F</td>
<td>9.26 x 10^-6 in./in./˚F</td>
</tr>
<tr>
<td><strong>Mold Resistance</strong>, ASTM D3273</td>
<td>Score of 10</td>
<td>Score of 10</td>
<td>Score of 10</td>
<td>Score of 10</td>
</tr>
<tr>
<td><strong>Mold Resistance</strong>, ASTM D6329</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Product Standard Compliance</strong></td>
<td>ASTM C1658</td>
<td>ASTM C1658</td>
<td>ASTM C1658</td>
<td>ASTM C1658</td>
</tr>
</tbody>
</table>

## Fire-Resistance Characteristics

<table>
<thead>
<tr>
<th></th>
<th>EXP Interior Extreme</th>
<th>1/2&quot; EXP Interior Extreme Type C</th>
<th>5/8&quot; EXP Interior Extreme Type X</th>
<th>5/8&quot; EXP Interior Extreme Type C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Type</strong></td>
<td>Regular</td>
<td>Type C</td>
<td>Type X</td>
<td>Type C</td>
</tr>
<tr>
<td><strong>UL Type Designation</strong></td>
<td>N/A</td>
<td>EXP-C</td>
<td>FSW-6</td>
<td>EXP-C</td>
</tr>
<tr>
<td><strong>Combustibility</strong></td>
<td>Non-combustible Core</td>
<td>Non-combustible Core</td>
<td>Non-combustible Core</td>
<td>Non-combustible Core</td>
</tr>
<tr>
<td><strong>Surface Burning Characteristics</strong></td>
<td>Class A</td>
<td>Class A</td>
<td>Class A</td>
<td>Class A</td>
</tr>
<tr>
<td><strong>Flame Spread</strong></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Smoke Development</strong></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

## Applicable Standards and References

- ASTM C840 Standard Specification for Application and Finishing of Gypsum Board
- ASTM C1658 Standard Specification for Glass Mat Gypsum Panels
- ASTM D6329 Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers
- ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials
- ASTM E136 Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750°C
- 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

1. Specified values per ASTM C1658, 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.
8. Tested in accordance with ASTM D6329.
Limitations

- Do not use for exposed exterior applications. eXP Interior Extreme Panels are intended for interior applications or projects.
- Do not use panels as a nailing base as they are nonstructural.
- Avoid exposure to excessive or continuous moisture and extreme temperatures. Gypsum panels are not recommended where they will be exposed to temperatures exceeding 125°F (52°C) for extended periods of time.
- 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 in horizontal applications until the building is properly enclosed.
- Do not finish joints until building is properly enclosed.

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 even 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 panel 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. Finish panels to a Level 5 finish as outlined in GA-214.
EXTERIOR SOFFIT INSTALLATION

1. EXP® Interior Extreme® Gypsum Board
2. Mesh Tape Set in Compound
3. Skim Coat
4. EXP® Sheathing
For More Information

ARCHITECTURAL SPECIFICATIONS

National Gypsum Company’s CSI MasterFormat® 3-part guide specifications are downloadable as editable Microsoft® Word documents at: nationalgypsum.com.

LATEST INFORMATION AND UPDATES

For the latest technical information and updates, call NGC Construction Services: 1-800-NATIONAL (628-4662) or visit our website: nationalgypsum.com.