Gold Bond® BRAND eXP® Interior Extreme® Abuse Resistant (AR) Gypsum Panels consist of an abuse- and moisture- and mold-resistant gypsum core encased in a coated, specially designed fiberglass mat on the face, back and sides. In addition to moisture and mold resistance, the AR Panel has a denser core and an enhanced glass mat for increased resistance to indentation and abrasion. It is available in a Type X core. The glass mat is folded around the long edges to reinforce and protect the core.

Use it for interior applications in areas prone to surface abrasion and indentation, including corridors, entryways, lobby areas and warehouses.

For speed of installation, GridMarX® guide marks are printed on the glass mat surface.

**Sizes:** 5/8 in. (15.9 mm) thick Type X 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.

1. Coated Fiberglass Mat
2. Tapered Edges
3. Enhanced Moisture- and Mold-Resistant Gypsum Core

**Note:** For abuse and impact test (ASTM C1629) results, see page 388.
Gold Bond® BRAND
EXP® Interior Extreme® AR Gypsum Panels

Basic Uses

APPLICATIONS

- Use it for interior wall and ceiling assemblies in areas where surface abrasion, indentation and moisture, mold and mildew resistance are major concerns.
- Use it on the interior side of exterior walls, mechanical rooms and core walls where moisture exposure is more likely.
- Use it for pre-rock applications before the building is completely enclosed, which may shorten construction cycles.

ADVANTAGES

- Provides greater resistance to surface abuse and impact penetration over standard gypsum board.
- Approved component in specific UL fire-rated designs.
- Resists the growth of mold per ASTM D3273 with a score of 10, the best possible score.
- Coated fiberglass facers for easy handling.
- Offers a 12-month extended exposure warranty for typical weather conditions. Refer to National Gypsum Company limited warranties for further details.
- Features the GridMarX® preprinted fastening guide on the panel to allow for faster and more accurate installation.
- 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. Note that cutting and scoring should be from the back side of the panels.
- 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 do not force into place.
- Install batt or blanket ceiling insulation BEFORE the gypsum panels on ceilings when installing a vapor retarder 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 panel 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.
## TECHNICAL DATA

### PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>EXP Interior Extreme AR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thickness</strong>, Nominal</td>
<td>5/8&quot; (15.9 mm)</td>
</tr>
<tr>
<td><strong>Width</strong>, Nominal</td>
<td>4’ (1,219 mm)</td>
</tr>
<tr>
<td><strong>Length</strong>&lt;sup&gt;4&lt;/sup&gt;, Standard</td>
<td>8’ – 12’ (2,438 mm – 3,658 mm)</td>
</tr>
<tr>
<td><strong>Weight</strong>, Nominal</td>
<td>2.8 lbs./sq. ft. (13.67 k/m&lt;sup&gt;2&lt;/sup&gt;)</td>
</tr>
<tr>
<td><strong>Edges</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Tapered</td>
</tr>
<tr>
<td><strong>Flexural Strength</strong>&lt;sup&gt;1&lt;/sup&gt;, Perpendicular</td>
<td>≥ 140 lbf. (623 N)</td>
</tr>
<tr>
<td><strong>Flexural Strength</strong>&lt;sup&gt;1&lt;/sup&gt;, Parallel</td>
<td>≥ 100 lbf. (445 N)</td>
</tr>
<tr>
<td><strong>Humidified Deflection</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>≤ 4/16&quot; (6.4 mm)</td>
</tr>
<tr>
<td><strong>Nail Pull Resistance</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>≥ 90 lbf. (400 N)</td>
</tr>
<tr>
<td><strong>Hardness</strong>&lt;sup&gt;1&lt;/sup&gt; – Core, Edges and Ends</td>
<td>≥ 15 lbf. (67 N)</td>
</tr>
<tr>
<td><strong>Bending Radius</strong></td>
<td>8’ (2,438 mm)</td>
</tr>
<tr>
<td><strong>Thermal Resistance</strong>&lt;sup&gt;5&lt;/sup&gt;</td>
<td>R = .50</td>
</tr>
<tr>
<td><strong>Permeance</strong>&lt;sup&gt;6&lt;/sup&gt;</td>
<td>19 perms</td>
</tr>
<tr>
<td><strong>Water Absorption</strong>&lt;sup&gt;1&lt;/sup&gt; (% of Weight)</td>
<td>≤ 5%</td>
</tr>
<tr>
<td><strong>Surface Water Absorption</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>≤ 1.6 grams</td>
</tr>
<tr>
<td><strong>Linear Expansion with Change Moisture</strong></td>
<td>6.25 x 10&lt;sup&gt;-6&lt;/sup&gt; in./in./%RH</td>
</tr>
<tr>
<td><strong>Coefficient of Thermal Expansion</strong></td>
<td>9.26 x 10&lt;sup&gt;-6&lt;/sup&gt; in./in./˚F</td>
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<tr>
<td><strong>Mold Resistance</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Score of 10</td>
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<tr>
<td><strong>Mold Resistant</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Surface Abrasion</strong>&lt;sup&gt;9&lt;/sup&gt;</td>
<td>Level 3</td>
</tr>
<tr>
<td><strong>Indentation</strong>&lt;sup&gt;9&lt;/sup&gt;</td>
<td>Level 1</td>
</tr>
<tr>
<td><strong>Soft-Body Impact</strong>&lt;sup&gt;9&lt;/sup&gt;</td>
<td>Level 2</td>
</tr>
<tr>
<td><strong>Hard-Body Impact</strong>&lt;sup&gt;9&lt;/sup&gt;</td>
<td>Level 1</td>
</tr>
<tr>
<td><strong>Product Standard Compliance</strong></td>
<td>ASTM C1658</td>
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<tr>
<td><strong>Fire-Resistance Characteristics</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Core Type</strong></td>
<td>Type X</td>
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<tr>
<td><strong>UL Type Designation</strong>&lt;sup&gt;2&lt;/sup&gt;</td>
<td>FSW-6</td>
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<tr>
<td><strong>Combustibility</strong>&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Non-combustible Core</td>
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<tr>
<td><strong>Surface Burning Characteristics</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Class A</td>
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<tr>
<td><strong>Flame Spread</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
<td>0</td>
</tr>
<tr>
<td><strong>Smoke Development</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
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### Applicable Standards and References

- ASTM C840 Standard Specification for Application and Finishing of Gypsum Board
- ASTM C1629 Standard Classification for Abuse-Resistant Nondecorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels
- 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
- National Gypsum Company, NGC Construction Guide

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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.
Gold Bond® BRAND

**eXP® Interior Extreme® AR 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.

- Listed impact ratings apply to walls constructed with eXP® Interior Extreme® AR applied with long edges parallel to and centered over minimum 20-gauge framing members spaced a maximum of 16 in. (406 mm) o.c.

- Install fire-rated assemblies in accordance with the details found in the UL Fire Resistance Directory or the Gypsum Association’s GA-600, Fire-Resistance Design Manual.

- Drive fasteners just below the surface, avoiding damage to the core and/or glass mat facer.

- Avoid installing water-sensitive materials adjacent to eXP Interior Extreme Panels in pre-rock applications until the building is enclosed.

**FINISHING**

Perform finishing of eXP Interior Extreme AR Gypsum Panels in accordance with GA-214. Joints between eXP Interior Extreme AR Panels may be finished with either paper tape and ready mix joint compound or fiberglass mesh tape and setting compound, such as ProForm® BRAND Interior Finishing Products. In most areas to receive final decoration, skim coating of the entire surface is recommended.

**DECORATION**

Ensure gypsum panel 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 panels prior to decoration.

Refer to GA-214 to determine the level of finishing needed to assure a surface properly prepared to accept the desired decoration.

**SAFETY**

Installers should wear long pants and a long-sleeved, loose fitting shirt. Use protective gloves and special eye protection (goggles or safety glasses with side shield). Wear a dust mask when sanding; you may need additional breathing protection in extremely dusty conditions. Do not use a power saw to cut this product.

**Caution:** Because this product contains fiberglass, dust and glass fibers may be released during normal handling, which could result in eye or skin irritation or cause difficulty in breathing. Whenever possible, avoid contact with the skin and eyes and avoid breathing dust or fibers that may be released during installation. Consult the SDS for this product, available at purplechoice.info before use.

**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. Finish panels to a Level 5 finish as outlined in GA-214.
Limitations

- Do not use for exterior applications. EXP® Interior Extreme® AR Gypsum Panels are intended for interior use only.
- Do not use panels as a nailing base as they are nonstructural.
- Do not finish joints until building is properly enclosed.
- Avoid exposure to excessive or continuous moisture and extreme temperatures. Gypsum board is not recommended where it 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.
- To maximize impact resistance and eliminate potential screw spin-out, a minimum 20-gauge (.0312 in. design thickness) steel stud is required.
- Space supporting framing a maximum of 16 in. (406 mm) o.c.
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.