Gold Bond® BRAND

eXP® Family
Of Glass Mat Products

National Gypsum®
With High-Quality Products And Resources
Founded in 1925, National Gypsum is one of the world’s largest producers of quality building products. For nearly a century, customers like you have looked to us for the best products, service and technical support. With a focus on sustainability, we strive to bring you the finest in construction products, education and resources to meet and exceed your expectations.

With Technical Support You Can Count On
Great products are nothing without great customer service. For detailed technical information about product applications, special assemblies, or installation and code requirements, call 1-800-NATIONAL®. Talk directly to a technical expert with up-to-date knowledge of products, specifications, building codes and more. Our technical experts can even review your plans and drawings and get back to you with answers to your questions.
Look Closer At The Best Mold- And Moisture-Resistant Glass Mat Products

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*With Design That Considers The Environment*

Together, we can attain the highest level of ecological responsibility and resource-efficient technology. National Gypsum is committed to supporting sustainable green building policies, standards and practices. Beyond offering products that can help contribute to healthier environments and have achieved GREENGUARD Certification for indoor air quality, we can help you meet the criteria for green programs and LEED credits.
**Gold Bond® Brand eXP® Sheathing**

Use Gold Bond® Brand eXP® Sheathing on the outside of a wall and soffit framing as a substrate for exterior cladding. It is available with either a Regular or Type X gypsum core. eXP® Sheathing consists of a moisture- and mold-resistant gypsum core encased in a coated, specially designed PURPLE® fiberglass mat on the face, back, and sides. The glass mat is folded around the long edges to reinforce and protect the core, and it provides superior weather resistance.

- 1/2” (12.7 mm) / Regular
- 5/8” (15.9 mm) / Type X
- Width: 4’ (1,219 mm)
- Length: 8’ – 10’ (2,438 – 3,048 mm)
- Square Edge
- Features GridMarX® guide marks

ASTM C1177, Federal Specification Number: SS-L-30D Type II Grade X

**Gold Bond® Brand eXP® Shaftliner**

Use Gold Bond® Brand eXP® Shaftliner to construct lightweight fire barriers for cavity shaftwalls (1-4 hr.) and area separation fire walls (2 hr.). eXP® Shaftliner consists of a moisture- and mold-resistant gypsum core encased in a coated, specially designed PURPLE® fiberglass mat on the face, back, and sides. It is available in a Type X core. The glass mat is folded around the long edges to reinforce and protect the core.

- 1” (25.4 mm) / Type X
- Width: 2’ (610 mm)
- Length: 8’ – 12’ (2,438 – 3,658 mm)
- Double Beveled Edge

ASTM C1658, Federal Specification Number: SS-L-30D Type II Grade X

**Gold Bond® Brand eXP® Tile Backer**

Use Gold Bond® Brand eXP® Tile Backer as a substrate for tile applications in high moisture areas, including showers, bathrooms, indoor swimming pools, laundry rooms and kitchens. It is also a code-compliant substrate for tile and other finishes in both wet and non-wet areas, areas of high humidity and fire-rated assemblies (5/8” Type X). It is ideally suited for a variety of interior applications. eXP® Tile Backer consists of a moisture- and mold-resistant gypsum core encased in an acrylic-coated, specially designed fiberglass mat on the face, back and sides. It is available in either a Regular or Type X core. The glass mat is folded around the long edges to reinforce and protect the core.

- 1/2” (12.7 mm) / Regular
- 5/8” (15.9 mm) / Type X
- Width: 4’ (1,219 mm)
- Length: 8’ (2,438 mm)
- Square Edge

ASTM C1178, Federal Specification Number: SS-L-30D Type II Grade X

Please consult your local sales representative for all non-standard lengths and widths. Minimum order requirements may apply.
Gold Bond® BRAND eXP® Interior Extreme® Gypsum Panels

Use Gold Bond® BRAND eXP® Interior Extreme® Gypsum Panels wherever gypsum board is specified in interior applications for the entire project, wood or metal framing, that require increased resistance to incidental moisture. These 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. eXP® Interior Extreme Gypsum Panels are available in a Regular, Type X or Type C core. The glass mat is folded around the long edges to reinforce and protect the core.

- 1/2” (12.7 mm) / Regular
- 1/2” (12.7) / Type C
- 5/8” (15.9 mm) / Type X
- 5/8” (15.9 mm) / Type C
- Width: 4’ (1,219 mm)
- Length: 8’ – 12’ (2,438 – 3,658 mm)
- Tapered Edge
- Features GridMarX® guide marks

ASTM C1658, Federal Specification Number: SS-L-30D Type II Grade X

Gold Bond® BRAND eXP® Interior Extreme® Abuse Resistant (AR) Gypsum Panels

Use Gold Bond® BRAND eXP® Interior Extreme® AR Gypsum Panels for interior applications in areas prone to surface abrasion and indentation, including corridors, entryways, lobby areas and warehouses. These gypsum panels consist of an abuse-, moisture- and mold-resistant gypsum core encased in a coated, specially designed fiberglass mat on the face and back sides. In addition to providing moisture and mold resistance, the AR panel has a denser core and an enhanced glass mat for increased resistance to indentation and abrasion. The glass mat is folded around the long edges to reinforce and protect the core.

- 5/8” (15.9 mm) / Type X
- Width: 4’ (1,219 mm)
- Length: 8’ – 12’ (2,438 – 3,658 mm)
- Tapered Edge
- Features GridMarX® guide marks

ASTM C1658, Federal Specification Number: SS-L-30D Type II Grade X

Gold Bond® BRAND eXP® Interior Extreme® Impact Resistant (IR) Gypsum Panels

Use Gold Bond® BRAND eXP® Interior Extreme® IR Gypsum Panels for interior applications requiring increased resistance to incidental moisture and wall penetrations. Ideally, use these gypsum panels in areas prone to cavity penetration, including gymnasiums, correctional facilities, schools and workshops. eXP® Interior Extreme® IR consist of an impact-, moisture- and mold-resistant gypsum core encased in a coated, specially designed fiberglass mat on the face, back and sides. In addition to providing moisture and mold resistance, the IR Panel has a denser core and an specially formulated fiberglass mesh embedded into the core for increased resistance to indentation and impact. The glass mat is folded around the long edges to reinforce and protect the core.

- 5/8” (15.9 mm) / Type X
- Width: 4’ (1,219 mm)
- Length: 8’ – 12’ (2,438 – 3,658 mm)
- Tapered Edge
- Features GridMarX® guide marks

ASTM C1658, Federal Specification Number: SS-L-30D Type II Grade X

Please consult your local sales representative for all non-standard lengths and widths. Minimum order requirements may apply.
Defend Against Mold And More With Advanced Glass Mat Technology

Gold Bond® brand eXP® is a technologically advanced glass mat gypsum product line utilizing Sealed Surface Technology. Part of our PURPLE® family, eXP® offers a solution for most every design or building challenge you face. With more moisture and mold resistance, eXP will help you construct the finest quality walls. Our eXP® PURPLE® coated glass mat provides excellent weather and water resistance.
Extraordinarily sturdy, glass mat will stand up to the elements. Dimensionally stable under changes in temperature, eXP® resists warping, rippling and buckling. When you build with our PURPLE® eXP products, you will have a single-source solution that provides the performance, support and resources to get the job done right.

**eXP® Glass Mat Product Line**

1. **eXP® Interior Extreme® Gypsum Panel**
   - For use in all rooms
   - Anywhere mold and moisture is a concern
   - 12-month exposure warranty

2. **eXP® Interior Extreme® AR Gypsum Panel**
   - Walls subject to added abuse/abrasion
   - Scratch and scuff resistant
   - 12-month exposure warranty

3. **eXP® Interior Extreme® IR Gypsum Panel**
   - Walls subject to impact from hard objects
   - Resists penetrations through the gypsum board
   - 12-month exposure warranty

4. **eXP® Shaftliner**
   - For use in shafts and stairwells
   - Resists mold and moisture
   - 12-month exposure warranty

5. **eXP® Tile Backer**
   - Gypsum backer board for wet areas
   - Acrylic-coated facer
   - Eliminates need for water barrier

6. **eXP® Sheathing**
   - Accepts a variety of exterior finishes
   - Finishing of joints not required
   - 12-month exposure warranty
Specify The Latest Technology

Consider National Gypsum’s Gold Bond® Brand EXP® Sheathing an invaluable partner in helping to protect your vision throughout its evolution, from start to finish and beyond.

The outer exterior walls and soffits of the building envelope are critical elements that deserve particular attention. Most of these assemblies require sheathing to be attached to the outside of framing as a water-resistant underlayment for various materials. Depending upon where your project is being erected, these assemblies could be exposed to wind, rain, snow and extreme temperatures for extended periods during the construction process and afterward.

With EXP Sheathing Sealed Surface Technology, your project can withstand the elements. For both wood and metal construction, EXP Sheathing provides a solid substrate for various air and water resistive barriers and is a component in Exterior Insulation and Finish Systems (EIFS). With our EXP Sheathing, you’ll have built-in weather and fire protection.

EXP Sheathing offers a moisture- and mold-resistant panel with superior extended-exposure capabilities. It is lightweight, handles easily, and is used for a variety of finishes. You’ll be hard pressed to find a better sheathing to give your project exactly what it needs – the assurance of a long and productive existence.

Build And Design Better With The Latest Technology

Add structural strength to wood and metal stud construction with Gold Bond Brand EXP Sheathing. Attach EXP Sheathing, a moisture- and mold-resistant gypsum panel, to the outside of sidewall and soffit framing as a water-resistant underlayment for various exterior materials. Apply as a sheathing on wood or steel framing to provide fire resistance and weather protection when used under exterior claddings, including, but not limited to: wood, vinyl, fiber cement siding, masonry veneer, EIFS and stucco. Use EXP Sheathing to achieve fire-resistance-rated exterior wall assemblies.
Applications Of EXP® Sheathing

- Use it as sheathing on wood or steel framing to provide fire resistance and weather protection when used under exterior claddings, such as wood, vinyl and fiber cement siding, masonry veneer, EIFS and stucco.
- Use it as a sheathing in fire-resistance-rated exterior wall assemblies.

Sizes: 1/2 in. (12.7 mm) Regular and 5/8 in. (15.9 mm) Gold Bond® brand EXP® Fire-Shield® Type X Panels are available in 4 ft. (1,219 mm) widths and in standard lengths of 8 ft. (2,438 mm) to 10 ft. (3,048 mm).

Advantages

**PROVIDES FIRE RESISTANCE**
- Fire-resistant material with a non-combustible gypsum core helps protect framing elements, even when cladding is combustible.
- Manufactured to meet ASTM C1177 ("Standard Specification for Glass Mat Gypsum Substrate for use as Sheathing").

**RESISTS MOISTURE AND MOLD BETTER**
- Provides superior water resistance without impeding vapor transmission.
- Resists the growth of mold per ASTM D3273 with a score of 10, the best possible score.

**INSTALLS FAST AND EASY**
- Features the GridMarX® guide marks on the panel to allow for faster and more accurate installation.
- Coated glass mat facers for easy handling.

**OFFERS SUPERIOR DURABILITY**
- Offers a 12-month extended exposure warranty for typical weather conditions.
- Dimensionally stable under changes in temperature and relative humidity.

* Please refer to National Gypsum’s “Limited Warranty And Remedy” (back cover) for details. For details about fire resistance, technical data and installation recommendations, refer to pages 33-35, nationalgypsum.com and the NGC Construction Guide.
# TECHNICAL DATA

## PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th></th>
<th>EXP Sheathing</th>
<th>EXP Sheathing Fire-Shield</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thickness</strong>, Nominal</td>
<td>1/2” (12.7 mm)</td>
<td>5/8” (15.9 mm)</td>
</tr>
<tr>
<td><strong>Width</strong>, Nominal</td>
<td>4’ (1,219 mm)</td>
<td>4’ (1,219 mm)</td>
</tr>
<tr>
<td><strong>Length</strong>, Standard</td>
<td>8’ – 10’ (2,438 mm – 3,048 mm)</td>
<td>8’ – 10’ (2,438 mm – 3,048 mm)</td>
</tr>
<tr>
<td><strong>Weight</strong>, Nominal</td>
<td>1.9 lbs. / sq. ft. (9.28 k/m²)</td>
<td>2.5 lbs. / sq. ft. (12.21 k/m²)</td>
</tr>
<tr>
<td><strong>Edges</strong></td>
<td>Square</td>
<td>Square</td>
</tr>
<tr>
<td><strong>Flexural Strength</strong>, Perpendicular</td>
<td>≥ 100 lbf. (445 N)</td>
<td>≥ 140 lbf. (623 N)</td>
</tr>
<tr>
<td><strong>Flexural Strength</strong>, Parallel</td>
<td>≥ 80 lbf. (356 N)</td>
<td>≥ 100 lbf. (445 N)</td>
</tr>
<tr>
<td><strong>Humidified Deflection</strong></td>
<td>≤ 2/8” (6 mm)</td>
<td>≤ 1/8” (3 mm)</td>
</tr>
<tr>
<td><strong>Nail Pull Resistance</strong></td>
<td>≥ 80 lbf. (356 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>
</tr>
<tr>
<td><strong>Bending Radius</strong></td>
<td>6’ (1,829 mm)</td>
<td>8’ (2,438 mm)</td>
</tr>
<tr>
<td><strong>Thermal Resistance</strong></td>
<td>R = .43</td>
<td>R = .50</td>
</tr>
<tr>
<td><strong>Permeance</strong> (% of Weight)</td>
<td>22 perms</td>
<td>19 perms</td>
</tr>
<tr>
<td><strong>Water Absorption</strong></td>
<td>≤ 10%</td>
<td>≤ 10%</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>
</tr>
<tr>
<td><strong>Coefficient of Thermal Expansion</strong></td>
<td>9.26 x 10⁻⁶ in./in./ºF</td>
<td>9.26 x 10⁻⁶ in./in./ºF</td>
</tr>
<tr>
<td><strong>Racking Strength</strong> (Ultimate – not design value)</td>
<td>&gt; 540 lbs./ft. (732 N/m)</td>
<td>&gt; 654 lbs./ft. (887 N/m)</td>
</tr>
<tr>
<td><strong>Mold Resistance</strong>, ASTM D3273</td>
<td>Score of 10</td>
<td>Score of 10</td>
</tr>
<tr>
<td><strong>Compressive Strength</strong></td>
<td>≥ 500 psi</td>
<td>≥ 500 psi</td>
</tr>
<tr>
<td><strong>Product Standard Compliance</strong></td>
<td>ASTM C1177</td>
<td>ASTM C1177</td>
</tr>
</tbody>
</table>

## Fire-Resistance Characteristics

<table>
<thead>
<tr>
<th></th>
<th>EXP Sheathing</th>
<th>EXP Sheathing Fire-Shield</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Type</strong></td>
<td>Regular</td>
<td>Type X</td>
</tr>
<tr>
<td><strong>UL Type Designation</strong></td>
<td>N/A</td>
<td>F3W-6</td>
</tr>
<tr>
<td><strong>Combustibility</strong></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>
</tr>
<tr>
<td><strong>Flame Spread</strong></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Smoke Development</strong></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 C1177 Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing
- ASTM E136 Standard Test Methods of Conducting Strength Tests of Panels for Building Construction
- 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 750ºC
- 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
- Gypsum Association, GA-253, Application of Gypsum Sheathing
- National Gypsum Company, NGC Construction Guide

1. Specified minimum values per ASTM C1177, tested in accordance with ASTM C473.
2. Tested in accordance with ASTM E136.
3. Tested in accordance with ASTM E84.
4. Special lengths may be available. Contact your local sales representative for more information.
5. Tested in accordance with ASTM C518.
6. Tested in accordance with ASTM E96.
7. Tested in accordance with ASTM E72.
8. Tested in accordance with ASTM D3273.
Common EXP® Sheathing Exterior Applications

**EIFS**
1. EXP® Sheathing
2. Screed Flashing
3. Weather-Resistant Barrier
4. Rigid Insulation
5. Weep Screed
6. Mesh
7. Basecoat
8. Stucco Finish Coat

**STUCCO**
1. EXP® Sheathing
2. Screed Flashing
3. Weather-Resistant Barrier
4. Metal Lath
5. Scratch Coat
6. Weep Screed
7. Brown Coat
8. Primer
9. Stucco Finish Coat

**BRICK VENEER**
1. EXP® Sheathing
2. Base Flashing
3. Weather-Resistant Barrier
4. Rigid Insulation
5. Veneer Tie
6. Brick Veneer

**THIN STONE VENEER**
1. EXP® Sheathing
2. Weep Screed
3. Base Flashing
4. Weather-Resistant Barrier
5. Rigid Insulation
6. Cement Board
7. Basecoat
8. Thin Stone Veneer

**FIBER CEMENT WOOD STUD**
1. EXP® Sheathing
2. Base Flashing
3. Weather-Resistant Barrier
4. Drainage Mat
5. Rigid Insulation
6. Furring Strips
7. Lap Siding

**METAL PANEL**
1. EXP® Sheathing
2. Base Flashing
3. Weather-Resistant Barrier
4. Drainage Mat
5. Rigid Insulation
6. Furring Strips
7. Horizontal Girts
8. Metal Panel System
Extra Protection Against Inclement Weather

eXP® Shaftliner is optimal when constructing lightweight fire barriers for cavity shaftwalls, stairwells and area separation walls in multi-family housing units.

Whether you are constructing multifamily housing or commercial projects, we can help you guard against damaging elements like rain and moisture and ensure you will achieve a fire rating. Gold Bond® BRAND eXP® Shaftliner is a moisture- and mold-resistant shaftliner panel with a fire-resistant (Type X) core. Use eXP Shaftliner Panels to construct lightweight fire barriers for cavity shaftwalls (1-4 hr.), stairwells and area separation fire walls in multi-family housing. These panels are key components in the Cavity Shaftwall Systems and the Area Separation Fire Wall Systems. With more shared walls and questions about structural safety, give yourself peace of mind by specifying eXP Shaftliner.

As with all eXP® products, eXP Shaftliner is a moisture- and mold-resistant panel with added fire-resistance. The PURPLE® coated fiberglass facers provide excellent weather- and water-resistant capabilities. Dimensionally stable under changes in temperature and humidity, this hard-working panel resists warping, rippling, buckling and sagging. It is specially coated on the front, back and edges for easy installation. eXP Shaftliner can also enhance acoustical performance; again, ideal when you are constructing multi-family residences.
Applications Of EXP® Shaftliner

EXP® Cavity Shaftwall Systems: These systems enclose elevator, horizontal shafts and chase walls in buildings where it is advantageous to erect these walls from one side only. EXP® Shaftliner is the right choice when designing for fire resistance and changing air pressure. Shaftwalls are non-load bearing partitions made up of gypsum board and metal framing. These systems are lightweight and economical compared with conventional shaftwalls.

EXP® Area Separation Wall Systems: Area Separation Wall is a popular method for constructing today’s multi-family housing units. These assemblies will be exposed to outdoor elements during the building process, and EXP Shaftliner features a coated glass mat facer and gypsum core that can provide increased protection.

Sizes: 1 in. (25.4 mm) thick panels are available in 2 ft. (610 mm) nominal widths and standard lengths up to 12 ft. (3,658 mm).

Advantages

**PROVIDES FIRE RESISTANCE**
- Fire-resistant material with a non-combustible gypsum core helps protect framing elements, even when cladding is combustible.
- Approved component in specific UL fire-rated designs.

**RESISTS MOISTURE AND MOLD BETTER**
- Provides superior water resistance without impeding vapor transmission.
- Resists the growth of mold per ASTM D3273 with a score of 10, the best possible score.

**INSTALLS FAST AND EASY**
- Scores and snaps easily without sawing.
- Coated glass mat facers for easy handling.

**OFFERS SUPERIOR DURABILITY**
- Offers a 12-month extended exposure warranty for typical weather conditions.
- Dimensionally stable under changes in temperature and relative humidity.

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

* Please refer to National Gypsum’s “Limited Warranty And Remedy” (back cover) for details. For details about fire resistance, technical data and installation recommendations, refer to pages 33-35, nationalgypsum.com and the NGC Construction Guide.
## TECHNICAL DATA

<table>
<thead>
<tr>
<th>PHYSICAL PROPERTIES</th>
<th>EXP Shaftliner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness(^1), Nominal</td>
<td>1&quot; (25.4 mm)</td>
</tr>
<tr>
<td>Width(^1), Nominal</td>
<td>2' (610 mm)</td>
</tr>
<tr>
<td>Length(^1,4), Standard</td>
<td>8' – 12' (2,438 mm – 3,658 mm)</td>
</tr>
<tr>
<td>Weight, Nominal</td>
<td>3.75 lbs. / sq. ft. (18.31 k/m(^2))</td>
</tr>
<tr>
<td>Edges(^1)</td>
<td>Double Beveled</td>
</tr>
<tr>
<td>Flexural Strength(^1), Perpendicular</td>
<td>≥ 230 lbf. (1,023 N)</td>
</tr>
<tr>
<td>Flexural Strength(^1), Parallel</td>
<td>≥ 80 lbf. (356 N)</td>
</tr>
<tr>
<td>Humidified Deflection(^1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Nail Pull Resistance(^1)</td>
<td>≥ 80 lbf. (356 N)</td>
</tr>
<tr>
<td>Hardness(^1) – Core, Edges and Ends</td>
<td>≥ 15 lbf. (67 N)</td>
</tr>
<tr>
<td>Thermal Resistance(^5)</td>
<td>R = .65</td>
</tr>
<tr>
<td>Water Absorption(^1) (% of Weight)</td>
<td>≤ 5%</td>
</tr>
<tr>
<td>Linear Expansion with Change Moisture</td>
<td>6.25 x 10(^{-6}) in./in./%RH</td>
</tr>
<tr>
<td>Coefficient of Thermal Expansion</td>
<td>9.26 x 10(^{-6}) in./in./˚F</td>
</tr>
<tr>
<td>Mold Resistance(^1), ASTM D3273</td>
<td>Score of 10</td>
</tr>
</tbody>
</table>

### Fire-Resistance Characteristics
- **Core Type**: Type X
- **UL Type Designation**: FSW-7
- **Combustibility\(^2\)**: Non-combustible Core
- **Surface Burning Characteristics\(^3\)**: Class A
- **Flame Spread\(^3\)**: 0
- **Smoke Development\(^3\)**: 0

### 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 E136 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-238, Guidelines for Prevention of Mold Growth on Gypsum Board
- National Gypsum Company, NGC Construction Guide

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1. Specified minimum values per ASTM C1858, 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 D3273.
Common eXP® Shaftliner Applications

Area Separation Wall Limiting Heights

1. Roof
2. Stringer
3. Top Plate
4. eXP® Shaftliner
5. H-Stud
6. Double C-Track (Back-to-Back)
7. eXP® Sheathing
8. Fire Blocking 1” eXP® Shaftliner or Mineral Wool
9. ASW Clip
10. Wood Stud
11. Horizontal Blocking
12. Floor
13. Ceiling
14. Minimum 3/4” Air Space
15. Concrete Slab or Foundation

Cavity Shaftwall System
U497 2-Hour (Fire Tested Both Sides)

1. J-Track
2. Stud
3. eXP® Shaftliner
4. 2 Layers eXP® Interior Extreme

23’ Walls
For walls up to 23’, space clips a maximum of 10’ o.c.

54’ Walls
For walls up to 54’, space clips a maximum of 5’ o.c. for wall sections below the upper 23’.

66’ Walls
For walls up to 66’, space clips a maximum of 39” o.c. for wall sections below the upper 54’.
Helping To Defend Against Moisture

When you are designing a commercial project that includes high humidity areas, like indoor swimming pools, gang showers, spas and whirlpools, we have the ideal substrate to specify: Gold Bond® BRAND eXP® Tile Backer.

Use Gold Bond® BRAND eXP® Tile Backer in rooms subjected to high humidity and you can build those indoor swimming pools, spas and whirlpools with confidence. eXP Tile Backer is an acrylic-coated moisture- and mold-resistant gypsum panel specially designed for use as a substrate for tile applications in high moisture areas, including showers, bathrooms, indoor swimming pools, laundry rooms and kitchens. Use eXP Tile Backer as a code-compliant substrate for tile and other finishes in both wet and non-wet areas, areas of high humidity and fire-rated assemblies. It is ideally suited for interior walls and ceilings.

eXP Tile Backer is an acrylic-coated moisture- and mold-resistant gypsum panel manufactured with an enhanced moisture- and mold-resistant core encased in specially designed coated glass mat facers. The facer is then coated with a specially formulated acrylic coating, which provides superior protection against moisture and humidity.

It provides an integral water barrier, eliminating the need for a separate water barrier. Another reason to consider eXP Tile Backer for your project: It has achieved 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. So the next time you need a product that will perform well in wet, non-wet or high-moisture areas that are more susceptible to encouraging mold, think eXP Tile Backer. This substrate will give you the added assurance you need to get the job done to your exacting standards.
Gold Bond® brand EXP® Tile Backer is manufactured with an enhanced moisture- and mold-resistant core encased in specially designed coated glass mat facers. The facer is then coated with a specially formulated acrylic coating, which provides superior protection against moisture and humidity. The glass mat is folded around the long edges to reinforce and protect the core.

- Use it as a substrate for tile applications in high-moisture areas, including showers, bathrooms, indoor swimming pools, laundry rooms and kitchens.

- It is also a code-compliant substrate for tile and other finishes in both wet and non-wet areas, areas of high humidity and fire-rated assemblies. It is ideally suited for a variety of interior applications.

Sizes: Regular panels are 1/2 in. (12.7 mm) thick, available in 4 ft. (1,219 mm) nominal widths, and in 8 ft. (2,438 mm) lengths; Fire-Shield® Type X Panels are 5/8 in. (15.9 mm) thick and available in standard lengths.

Advantages

PROVIDES FIRE RESISTANCE
- Fire-resistant material with a non-combustible gypsum core helps protect framing elements, even when cladding is combustible.
- 5/8 in. (15.9 mm) EXP® Tile Backer is an approved component in specific UL fire-rated designs.

RESISTS MOISTURE AND MOLD BETTER
- Acrylic-coated fiberglass front facer provides an integral water barrier, eliminating the need for a separate water barrier.
- Resists the growth of mold per ASTM D3273 with a score of 10, the best possible score.

INSTALLS FAST AND EASY
- Coated glass mat facers for easy handling.
- Integrated water barrier.

OFFERS SUPERIOR DURABILITY
- Dimensionally stable under changes in temperature and relative humidity.

* Please refer to National Gypsum’s “Limited Warranty And Remedy” (back cover) for details. For details about fire resistance, technical data and installation recommendations, refer to pages 33-35, nationalgypsum.com and the NGC Construction Guide.
## PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th></th>
<th>EXP Tile Backer</th>
<th>EXP Fire-Shield Tile Backer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thickness</strong>, Nominal</td>
<td>1/2” (12.7 mm)</td>
<td>5/8” (15.9 mm)</td>
</tr>
<tr>
<td><strong>Width</strong>, Nominal</td>
<td>4’ (1,219 mm)</td>
<td>4’ (1,219 mm)</td>
</tr>
<tr>
<td><strong>Length</strong>, Standard</td>
<td>8’ (2,438 mm)</td>
<td>8’ (2,438 mm)</td>
</tr>
<tr>
<td><strong>Weight</strong>, Nominal</td>
<td>2.0 lbs. / sq. ft. (9.76 k/m²)</td>
<td>2.5 lbs. / sq. ft. (12.21 k/m²)</td>
</tr>
<tr>
<td><strong>Edges</strong></td>
<td>Square</td>
<td>Square</td>
</tr>
<tr>
<td><strong>Flexural Strength</strong>, Perpendicular</td>
<td>≥ 100 lbf. (445 N)</td>
<td>≥ 140 lbf. (623 N)</td>
</tr>
<tr>
<td><strong>Flexural Strength</strong>, Parallel</td>
<td>≥ 80 lbf. (356 N)</td>
<td>≥ 100 lbf. (445 N)</td>
</tr>
<tr>
<td><strong>Humidified Deflection</strong></td>
<td>≤ 2/8” (6 mm)</td>
<td>≤ 1/8” (3 mm)</td>
</tr>
<tr>
<td><strong>Nail Pull Resistance</strong></td>
<td>≥ 70 lbf. (311 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>
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<tr>
<td><strong>Bending Radius</strong></td>
<td>12’ (3,658 mm)</td>
<td>16’ (4,877 mm)</td>
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<tr>
<td><strong>Thermal Resistance</strong></td>
<td>R = .43</td>
<td>R = .50</td>
</tr>
<tr>
<td><strong>Permeance</strong></td>
<td>2 perms</td>
<td>2 perms</td>
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<tr>
<td><strong>Water Absorption</strong> (% of Weight)</td>
<td>≤ 5%</td>
<td>≤ 5%</td>
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<tr>
<td><strong>Surface Water Absorption</strong></td>
<td>≤ .5 grams</td>
<td>≤ .5 grams</td>
</tr>
<tr>
<td><strong>Linear Expansion with Change Moisture</strong></td>
<td>6.25 x 10⁻⁴ in./in./%RH</td>
<td>6.25 x 10⁻⁴ in./in./%RH</td>
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<tr>
<td><strong>Coefficient of Thermal Expansion</strong></td>
<td>9.26 x 10⁻⁴ in./in./F</td>
<td>9.26 x 10⁻⁴ in./in./F</td>
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<tr>
<td><strong>Mold Resistance</strong>, ASTM D3273</td>
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<td>Score of 10</td>
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<td>Yes</td>
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<td><strong>Product Standard Compliance</strong></td>
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### Fire-Resistance Characteristics

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<tr>
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<th>Regular</th>
<th>Type X</th>
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<tr>
<td><strong>Core Type</strong></td>
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<td></td>
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<tr>
<td><strong>UL Type Designation</strong></td>
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<td><strong>Combustibility</strong></td>
<td>Non-combustible Core</td>
<td>Non-combustible Core</td>
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<td><strong>Surface Burning Characteristics</strong></td>
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<td>Class A</td>
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<td><strong>Flame Spread</strong></td>
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</tr>
<tr>
<td><strong>Smoke Development</strong></td>
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<td>0</td>
</tr>
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</table>

### Applicable Standards and References

- ASTM C840 Standard Specification for Application and Finishing of Gypsum Board
- ASTM C1178 Standard Specification For Coated Glass Mat Water-Resistant Gypsum Backing Panel
- ASTM D6329 Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers
- ASTM E72 Standard Test Methods of Conducting Strength Tests of Panels for Building Construction
- 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

1. Specified minimum values per ASTM C1178, tested in accordance with ASTM C473.
2. Tested in accordance with ASTM E136.
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 D6329.
8. Please consult your local sales representative for all non-standard lengths and widths. Minimum order requirements may apply.
COUNTER TOP
INSTALLATION
1. Mortar
2. Tile and Grout
3. EXP® Tile Backer
4. Fiberglass Mesh Tape
   Embedded in Joint Compound

SHOWER
INSTALLATION
1. Support Framing
   1/4” / 1/2” slope towards drain
2. Plywood, Min. 1/2”
3. Membrane
4. EXP® Tile Backer
5. Membrane
6. Sealant
7. Latex-Portland Cement Mortar
8. Tile and Grout
When Long-Term Exposure To Mold Is A Concern

Your project warrants added protection against mold and moisture in interior applications, and Gold Bond® Brand eXP® Interior Extreme® Gypsum Panel is an excellent choice. When designing a building with a non-paper faced gypsum application, this gypsum panel features coated fiberglass facers as well as an enhanced moisture- and mold-resistant gypsum core. The inorganic glass mat is embedded in the core, giving it added strength and moisture-resistant properties.

With eXP Interior Extreme, you can use a single gypsum panel throughout the entire project, wherever gypsum board is specified. This helps to make your job seamless and offers you added peace of mind.

Consider specifying Interior Extreme for pre-rock applications, or before the building envelope is completely enclosed. Use it on the interior side of exterior walls, where moisture exposure is more likely to occur. It is also ideally suited for topping out, helping push the construction schedule to an on-time completion. This flexible substrate works well for both wood and metal-framed construction.

Easy to work with and handle, it is also approved for specific UL fire-rated designs. It has achieved 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.
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) Regular, 1/2 in. (12.7 mm) Type C and 5/8 in. (15.9 mm) Gold Bond® BRAND Fire-Shield® Type X or Type C. Panels are available in 4 ft. (1,219 mm) nominal widths and in 8 ft. (2,438 mm) to 12 ft. (3,658 mm) lengths.

**Finishing:** Perform finishing of eXP® Panels in accordance with GA-214. Joints between eXP 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.

**Advantages**

**PROVIDES FIRE RESISTANCE**
- Fire-resistant material with a non-combustible gypsum core helps protect framing elements, even when cladding is combustible.
- 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.

**RESISTS MOISTURE AND MOLD BETTER**
- Resists the growth of mold per ASTM D3273 with a score of 10, the best possible score.

**INSTALLS FAST AND EASY**
- Features the GridMarX® guide marks on the panel to allow for faster and more accurate installation.
- May use for pre-rock applications before building is completely enclosed, which may speed installation.
- Versatile product can be used throughout the entire project where gypsum board is specified.

**OFFERS SUPERIOR DURABILITY**
- Offers a 12-month extended exposure warranty for typical weather conditions.
- Dimensionally stable under changes in temperature and relative humidity.

* Please refer to National Gypsum’s “Limited Warranty And Remedy” (back cover) for details. For details about fire resistance, technical data and installation recommendations, refer to pages 33-35, nationalgypsum.com and the NGC Construction Guide.
## 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>Thickness¹, 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>Width¹, 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>Length¹, Standard</td>
<td>8&quot; – 12&quot; (2,438 mm – 3,658 mm)</td>
<td>8&quot; – 12&quot; (2,438 mm – 3,658 mm)</td>
<td>8&quot; – 12&quot; (2,438 mm – 3,658 mm)</td>
<td>8&quot; – 12&quot; (2,438 mm – 3,658 mm)</td>
</tr>
<tr>
<td>Weight, Nominal</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>
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<tr>
<td>Edges¹</td>
<td>Tapered</td>
<td>Tapered</td>
<td>Tapered</td>
<td>Tapered</td>
</tr>
<tr>
<td>Flexural Strength¹, 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>Flexural Strength¹, 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>Humidified Deflection¹</td>
<td>≤ 5/16&quot; (8 mm)</td>
<td>≤ 5/16&quot; (8 mm)</td>
<td>≤ 4/16&quot; (6 mm)</td>
<td>≤ 4/16&quot; (6 mm)</td>
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<tr>
<td>Nail Pull Resistance¹</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>
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<tr>
<td>Hardness¹ – 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>
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<tr>
<td>Bending Radius</td>
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<td>6&quot; (1,829 mm)</td>
<td>8&quot; (2,438 mm)</td>
<td>8&quot; (2,438 mm)</td>
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<tr>
<td>Thermal Resistance²</td>
<td>R = .43</td>
<td>R = .43</td>
<td>R = .50</td>
<td>R = .50</td>
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<td>Permeance⁶</td>
<td>22 perms</td>
<td>22 perms</td>
<td>19 perms</td>
<td>19 perms</td>
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<tr>
<td>Water Absorption¹ (% of Weight)</td>
<td>≤ 5%</td>
<td>≤ 5%</td>
<td>≤ 5%</td>
<td>≤ 5%</td>
</tr>
<tr>
<td>Surface Water Absorption¹</td>
<td>≤ 1.6 grams</td>
<td>≤ 1.6 grams</td>
<td>≤ 1.6 grams</td>
<td>≤ 1.6 grams</td>
</tr>
<tr>
<td>Linear Expansion with Change Moisture</td>
<td>6.25 x 10⁻⁴ in./in./%RH</td>
<td>6.25 x 10⁻⁴ in./in./%RH</td>
<td>6.25 x 10⁻⁴ in./in./%RH</td>
<td>6.25 x 10⁻⁴ in./in./%RH</td>
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<tr>
<td>Coefficient of Thermal Expansion</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>
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<td>Mold Resistance¹, ASTM D3273</td>
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<td>Score of 10</td>
<td>Score of 10</td>
<td>Score of 10</td>
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<td>Mold Resistance¹, ASTM D6329</td>
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</table>

### Fire-Resistance Characteristics

<table>
<thead>
<tr>
<th>Core Type</th>
<th>Regular</th>
<th>Type C</th>
<th>Type X</th>
<th>Type C</th>
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<tr>
<td>UL Type Designation</td>
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<td>FSW-6</td>
<td>EXP-C</td>
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<td>Combustibility²</td>
<td>Non-combustible Core</td>
<td>Non-combustible Core</td>
<td>Non-combustible Core</td>
<td>Non-combustible Core</td>
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<td>Surface Burning Characteristics³</td>
<td>Class A</td>
<td>Class A</td>
<td>Class A</td>
<td>Class A</td>
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<tr>
<td>Flame Spread³</td>
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<td>0</td>
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<td>0</td>
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<tr>
<td>Smoke Development³</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 Evaluation The Ability Of Indoor Materials 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

1. Specified values per ASTM C1658, tested in accordance with ASTM C473.
2. Tested in accordance with ASTM D3273.
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 C1658.
7. Tested in accordance with ASTM D6329.
8. Tested in accordance with ASTM D6329.
Installation Applications

PRE-ROCK INSTALLATION
1. Topping out with eXP® Interior Extreme® Gypsum Board in an exposed environment
2. Pre-rock with eXP® Interior Extreme® Gypsum Board

SOFFIT INSTALLATION
1. eXP® Interior Extreme® Gypsum Board
2. Mesh Tape Set In Setting Compound
3. Skim Coat Setting Compound
4. eXP® Sheathing
eXP® Interior Extreme® AR Gypsum Panels

For High-Traffic Areas Where Indentation And Surface Abrasion Are Concerns

We have taken the moisture- and mold-resistant qualities of our eXP® Interior Extreme® and improved upon it with Gold Bond® BRAND eXP® Interior Extreme® AR (Abuse Resistant) Gypsum Panel. In addition to the standard IE performance benefits, this coated fiberglass-faced gypsum panel also offers an extra level of surface durability.

eXP Interior Extreme AR is designed for a non-paper faced gypsum application, utilizing coated glass mat facers. The specially formulated gypsum core combines enhanced protection against moisture and mold with added surface-abrasion resistance. When you think about eXP Interior Extreme AR, think: strong and durable.

As with eXP Interior Extreme, consider specifying Interior Extreme AR for pre-rock applications before the building envelope is completely enclosed.

Easy to work with and handle, it is also approved for specific UL fire-rated designs. It has achieved 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.

Areas prone to surface abrasion and indentation include:

- Corridors
- Entryways
- Lobby areas
- Warehouses
Gold Bond® BRAND eXP® Interior Extreme® Abuse Resistant (AR) Gypsum Panels consist of an abuse-, moisture- and mold-resistant gypsum core encased in a coated, specially designed glass 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.

Sizes: 5/8 in. (15.9 mm) Gold Bond® BRAND Type X Panels are available in 4 ft. (1,219 mm) nominal widths and in standard lengths of 8 ft. (2,438 mm) to 12 ft. (3,658 mm).

Finishing: Perform finishing of eXP Panels in accordance with GA-214. Joints between eXP 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.

Advantages

**PROVIDES FIRE RESISTANCE**
- Fire-resistant material with a non-combustible gypsum core helps protect framing elements, even when cladding is combustible.
- Manufactured to meet ASTM C1658 ("Standard Specification for Glass Mat Gypsum Substrate for use as Sheathing").

**RESISTS MOISTURE AND MOLD BETTER**
- Resists the growth of mold per ASTM D3273 with a score of 10, the best possible score.

**INSTALLS FAST AND EASY**
- Features the GridMarX® guide marks on the panel to allow for faster and more accurate installation.
- Coated glass mat facers for easy handling.

**OFFERS SUPERIOR DURABILITY**
- Offers a 12-month extended exposure warranty for typical weather conditions.
- Dimensionally stable under changes in temperature and relative humidity.

**PROVIDES ABUSE RESISTANCE**
- Provides greater resistance to surface abuse and impact penetration over gypsum board.

* Please refer to National Gypsum’s “Limited Warranty And Remedy” (back cover) for details. For details about fire resistance, technical data and installation recommendations, refer to pages 33-35, nationalgypsum.com and the NGC Construction Guide.
### TECHNICAL DATA

#### PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>EXP Interior Extreme AR</th>
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<tr>
<td>Thickness, Nominal</td>
<td>5/8” (15.9 mm)</td>
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<tr>
<td>Width, Nominal</td>
<td>4’ (1,219 mm)</td>
</tr>
<tr>
<td>Length, Standard</td>
<td>8’ – 12’ (2,438 mm – 3,658 mm)</td>
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<tr>
<td>Weight, Nominal</td>
<td>2.8 lbs. / sq. ft. (13.67 k/m²)</td>
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<td>Edges</td>
<td>Tapered</td>
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<tr>
<td>Flexural Strength, Perpendicular</td>
<td>≥ 140 lbf. (623 N)</td>
</tr>
<tr>
<td>Flexural Strength, Parallel</td>
<td>≥ 100 lbf. (445 N)</td>
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<tr>
<td>Humidified Deflection</td>
<td>≤ 4/16” (6 mm)</td>
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<tr>
<td>Nail Pull Resistance</td>
<td>≥ 90 lbf. (400 N)</td>
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<tr>
<td>Hardness – Core, Edges and Ends</td>
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</tr>
<tr>
<td>Water Absorption (% of Weight)</td>
<td>≤ 5%</td>
</tr>
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<td>Surface Water Absorption</td>
<td>≤ 1.6 grams</td>
</tr>
<tr>
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</tr>
<tr>
<td>Coefficient of Thermal Expansion</td>
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</tr>
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<td>Score of 10</td>
</tr>
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<td>Level 3</td>
</tr>
<tr>
<td>Indentation</td>
<td>Level 1</td>
</tr>
<tr>
<td>Soft Body Impact</td>
<td>Level 2</td>
</tr>
<tr>
<td>Hard Body Impact</td>
<td>Level 1</td>
</tr>
<tr>
<td>Product Standard Compliance</td>
<td>ASTM C1658</td>
</tr>
</tbody>
</table>

#### Fire-Resistance Characteristics

- Core Type: Type X
- UL Type Designation: FSW-6
- Combustibility: Non-combustible Core
- Surface Burning Characteristics: Class A
- Flame Spread: 0
- Smoke Development: 0

#### Applicable Standards and References

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.
Abuse And Impact Test Results (ASTM C1629)

RECOMMENDED CLASSIFICATION LEVELS FOR COMPLIANCE

<table>
<thead>
<tr>
<th>Test/Classification Level</th>
<th>Gold Bond EXP Interior Extreme AR Gypsum Board</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM D4977 – Surface Abrasion</td>
<td>3</td>
</tr>
<tr>
<td>ASTM D5420 – Surface Indentation</td>
<td>1</td>
</tr>
<tr>
<td>ASTM E695 – Soft-Body Impact</td>
<td>2</td>
</tr>
<tr>
<td>Annex A1 – Hard-Body Impact</td>
<td>1*</td>
</tr>
</tbody>
</table>

* Abuse products are not recommended for areas prone to cavity penetration.

SURFACE ABRASION (Modified ASTM D4977)
This test measures the ability of a gypsum panel surface to resist scratches and scuffs by subjecting the panel to 50 back-and-forth cycles with a wire brush. The depth of the abrasion is measured. The test was originally developed to test granule adhesion to mineral surfaced roofing and was modified by adding 25 lbs. of additional weight to the wire brush.

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SINGLE DROP SOFT-BODY IMPACT (Modified ASTM E695)
This test measures the ability of a gypsum panel to withstand a single impact of a heavy soft object. This test is conducted by swinging a leather bag loaded with steel pellets into the panel. When the panel breaks, the height of the drop and weight of the bag are used to calculate the foot-pound measurement required to break the panel. The test was originally developed to measure relative resistance of wall, floor and roof construction to impact loading.

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<tr>
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<td>300 ft-lbs (408 J)</td>
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HARD-BODY IMPACT (Annex A1)
This test measures the ability of a gypsum panel to withstand the impact of a hard object such as a hammer, or heel of a boot. A panel is impacted once with a 2-3/4” steel cylinder mounted to a ram. The maximum amount of impact force the panel can withstand without breaking the stud cavity is recorded. This is a new test proposed by manufacturers of high-performance panels.

<table>
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<tr>
<th>Classification Level</th>
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</tr>
<tr>
<td>3</td>
<td>150 ft-lbs (204 J)</td>
</tr>
</tbody>
</table>

Tests witnessed by H.P. White Laboratory, Inc.
For Areas Susceptible To Extreme Abuse And Impact Penetration

We have taken eXP® Interior Extreme® and added even more protective properties, creating Gold Bond® eXP® Interior Extreme® IR (Impact Resistant) Gypsum Panel. eXP® Interior Extreme IR is an even more durable and impact-resistant version of eXP® Interior Extreme® AR.

eXP® Interior Extreme IR has the same added protection against mold and moisture in interior applications as eXP® Interior Extreme. IR is designed for a non-paper faced gypsum application and anywhere impact penetration and heavy traffic is a concern. It utilizes coated fiberglass facers, along with a specially formulated fiberglass mesh embedded into the gypsum core. IR provides a high level of surface-impact resistance. When you think about eXP® Interior Extreme IR, think: the toughest board in the series.

eXP® Interior Extreme IR has the features you're already familiar with in Interior Extreme and Interior Extreme AR. This flexible substrate works well for both wood and metal-framed construction. Approved for specific UL fire-rated designs, it has also achieved 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.

Areas prone to cavity penetration include:

- Gymnasiums
- Correctional facilities
- Schools
- Workshops
Gold Bond® Brand eXP® Interior Extreme® Impact Resistant (IR) Gypsum Panels consist of an impact- and a moisture- and mold-resistant gypsum core encased in a coated, specially designed glass mat on the face, back and sides. In addition to moisture and mold resistance, the impact-resistant panel has a denser core and an enhanced glass mat for increased resistance to indentation and impact. Additionally, the fiberglass mesh embedded into the core enhances impact resistance. 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 requiring increased resistance to incidental moisture and wall penetrations. It is ideal for areas prone to cavity penetration, including gymnasiums, correctional facilities, schools and workshops.

Sizes: 5/8 in. (15.9 mm) Gold Bond® Brand Type X Panels are available in 4 ft. (1,219 mm) nominal widths and standard lengths of 8 ft. (2,438 mm) to 12 ft. (3,658 mm).

Finishing: Perform finishing of eXP panels in accordance with GA-214. Joints between eXP 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.

Advantages

**Provides Fire Resistance**
- Fire-resistant material with a non-combustible gypsum core helps protect framing elements, even when cladding is combustible.
- Approved component in specific UL fire-rated designs.

**Resists Moisture and Mold Better**
- Resists the growth of mold per ASTM D3273 with a score of 10, the best possible score.

**Installs Fast and Easy**
- Features the GridMarX® guide marks on the panel to allow for faster and more accurate installation.
- Coated glass mat facers for easy handling.

**Offers Superior Durability**
- Offers a 12-month extended exposure warranty for typical weather conditions.
- Dimensionally stable under changes in temperature and relative humidity.

**Provides Impact Resistance**
- Provides greater resistance to abuse and impact penetration over standard gypsum board.

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

* Please refer to National Gypsum’s “Limited Warranty And Remedy” (back cover) for details. For details about fire resistance, technical data and installation recommendations, refer to pages 33-35, nationalgypsum.com and the NGC Construction Guide.
## TECHNICAL DATA

### PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>EXP Interior Extreme IR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness¹, Nominal</td>
<td>5/8” (15.9 mm)</td>
</tr>
<tr>
<td>Width¹, Nominal</td>
<td>4’ (1,219 mm)</td>
</tr>
<tr>
<td>Length², Standard</td>
<td>8’ – 12’ (2,438 mm – 3,658 mm)</td>
</tr>
<tr>
<td>Weight, Nominal</td>
<td>2.8 lbs. / sq. ft. (13.67 k/m²)</td>
</tr>
<tr>
<td>Edges</td>
<td>Tapered</td>
</tr>
<tr>
<td>Flexural Strength¹, Perpendicular</td>
<td>≥ 140 lbf. (623 N)</td>
</tr>
<tr>
<td>Flexural Strength¹, Parallel</td>
<td>≥ 100 lbf. (445 N)</td>
</tr>
<tr>
<td>Humidified Deflection¹</td>
<td>≤ 4/16” (6 mm)</td>
</tr>
<tr>
<td>Nail Pull Resistance¹</td>
<td>≥ 90 lbf. (400 N)</td>
</tr>
<tr>
<td>Hardness¹ – Core, Edges and Ends</td>
<td>≥ 15 lbf. (67 N)</td>
</tr>
<tr>
<td>Bending Radius</td>
<td>8’ (2,438 mm)</td>
</tr>
<tr>
<td>Thermal Resistance²</td>
<td>R = .50</td>
</tr>
<tr>
<td>Permeance⁶</td>
<td>19 perms</td>
</tr>
<tr>
<td>Water Absorption¹ (% of Weight)</td>
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</tr>
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<tr>
<td>Hard-Body Impact²</td>
<td>Level 2</td>
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<td>Product Standard Compliance</td>
<td>ASTM C1658</td>
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### Fire-Resistance Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Type X</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Type Designation</td>
<td>F5W-6</td>
</tr>
<tr>
<td>Combustibility¹</td>
<td>Non-combustible Core</td>
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<tr>
<td>Surface Burning Characteristics¹</td>
<td>Class A</td>
</tr>
<tr>
<td>Flame Spread¹</td>
<td>0</td>
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<tr>
<td>Smoke Development¹</td>
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Abuse And Impact Test Results (ASTM C1629)

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</tr>
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<td>3</td>
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This test measures the ability of a gypsum panel to withstand the impact of a hard object such as a hammer, or heel of a boot. A panel is impacted once with a 2-3/4” steel cylinder mounted to a ram. The maximum amount of impact force the panel can withstand without breaking the stud cavity is recorded. This is a new test proposed by manufacturers of high-performance panels.

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Tests witnessed by H.P. White Laboratory, Inc.
## EXP® Gypsum Panels
### Fire And Sound Selector

<table>
<thead>
<tr>
<th>No.</th>
<th>Fire Rating</th>
<th>ULGA Design</th>
<th>Description</th>
<th>STC</th>
<th>Test No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Gypsum Board Partitions – Shaftwall Systems</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1 Hr.</td>
<td>W419 U499 WP 6905</td>
<td>1 in. (25.4 mm) Fire-Shield Shaftliner inserted between flanges of 2-1/2 in. (63.6 mm) steel C-T, C-H, or I studs 24 in. (610 mm) o.c. 1/2 in. (15.9 mm) Fire-Shield Gypsum Board applied vertically or horizontally to studs with 1 in. (25.4 mm) Type S screws 12 in. (305 mm) o.c. on side opposite shaftliner panel. Sound rating with 1-1/2 in. (38.1 mm) glass fiber insulation in stud cavity.</td>
<td>37</td>
<td>NGC 2001003</td>
</tr>
<tr>
<td>2</td>
<td>2 Hr.</td>
<td>W419 U498 WP 7077</td>
<td>1 in. (25.4 mm) Fire-Shield Shaftliner inserted between flanges of 2-1/2 in. (63.6 mm) steel C-T, C-H, or I studs 24 in. (610 mm) o.c. 1/2 in. (15.9 mm) Fire-Shield Gypsum Board applied vertically or horizontally to each side of studs with 1 in. (25.4 mm) Type S screws 12 in. (305 mm) o.c. Joints staggered each side. Sound rating with 1-1/2 in. (38.1 mm) glass fiber insulation in stud cavity.</td>
<td>42</td>
<td>NGC 2535</td>
</tr>
<tr>
<td>3</td>
<td>2 Hr.</td>
<td>W419 U497 WP 7076</td>
<td>1 in. (25.4 mm) Fire-Shield Shaftliner inserted between flanges of 2-1/2 in. (63.6 mm) steel C-T, C-H, or I studs 24 in. (610 mm) o.c. Base layer 1/2 in. (15.9 mm) Fire-Shield Gypsum Board applied vertically to studs with 1 in. (25.4 mm) Type S screws 24 in. (610 mm) o.c. on side opposite shaftliner panel. Face layer 1/2 in. (15.9 mm) Fire-Shield Gypsum Board applied vertically with 1-5/8 in. (41.3 mm) Type S screws 12 in. (305 mm) o.c. Joints staggered each layer. Sound rating with 1-1/2 in. (38.1 mm) glass fiber insulation in stud cavity.</td>
<td>41</td>
<td>NGC 2508</td>
</tr>
<tr>
<td>4</td>
<td>1 Hr.</td>
<td>V438 U465 WP 1081</td>
<td>5/8 in. (15.9 mm) Fire-Shield Gypsum Board applied vertically to each side of 3-5/8 in. (92.1 mm) steel studs 24 in. (610 mm) o.c. with 1 in. (25.4 mm) Type S screws 8 in. (203 mm) o.c. at vertical joints and 12 in. (305 mm) o.c. at intermediate studs. Sound rating with 2-1/2 in. (63.6 mm) glass fiber insulation in stud cavity.</td>
<td>48</td>
<td>NGC 2507</td>
</tr>
<tr>
<td>5</td>
<td>2 Hr.</td>
<td>V438 U411 WP 1548</td>
<td>Base layer 5/8 in. (15.9 mm) Fire-Shield Gypsum Board applied vertically to each side of 2-1/2 in. (63.6 mm) steel studs 24 in. (610 mm) o.c. with 1 in. (25.4 mm) Type S screws 16 in. (406 mm) o.c. Face layer 5/8 in. (15.9 mm) Fire-Shield Gypsum Board applied vertically to each side with 1-5/8 in. (41.3 mm) Type S screws 16 in. (406 mm) o.c. at vertical joints and intermediate studs and 12 in. (305 mm) o.c. at floor and ceiling runners. Joints staggered each layer and side. Sound rating with 3-5/8 in. (92.1 mm) steel studs and 3-1/2 in. (88.9 mm) glass fiber insulation in stud cavity.</td>
<td>56</td>
<td>NGC 3022</td>
</tr>
<tr>
<td>6</td>
<td>2 Hr.</td>
<td>U347 ASW 0988</td>
<td>Two layers of 1 in. (25.4 mm) Fire-Shield Shaftliner inserted between flanges of 2 in. (50.8 mm) steel H-studs 24 in. (610 mm) o.c. 1/2 in. (15.9 mm) air space each side. 2x4 (38.1 mm x 88.9 mm) wood stud partition with one layer of 1/2 in. (12.7 mm) Gold Bond Gypsum Board on each side. Sound rating with 3-1/2 in. (88.9 mm) glass fiber insulation in stud cavity on each side.</td>
<td>61</td>
<td>RAL-TL05-199</td>
</tr>
</tbody>
</table>
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 board.
- Apply gypsum panels 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 panel edges 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 might 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 fiberglass mat 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.

SAFETY

Installers should wear long pants and 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. Wherever 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.

FASTENING

EXP® Sheathing® – Fasteners (nail or screw heads or the crown of staples) should bear tightly against the face of the sheathing panel but should not cut into the facer. Staples should be driven with the crown parallel to the framing. Fasteners should be no less than 3/8 in. (9.5 mm) from the edges and ends of the panel. When shear values are not required, fasteners should be spaced not more than 8 in. (203 mm) o.c. along the vertical ends or edges and intermediate supports.

NAILS
- Galvanized, 11 gauge
  - 7/16 in. (11.1 mm) head, 1-1/2 in. (38.1 mm) long for 1/2 in. (12.7 mm) sheathing
  - 1-3/4 in. (44.5 mm) long for 5/8 in. (5.9 mm) sheathing.

SCREWS
- ASTM C1002 or ASTM C954
  - 1-1/4 in. (31.8 mm) long Type W for wood framing
  - 1 in. (25.4 mm) long Type S-12 for metal framing

STAPLES
- Galvanized 16 gauge, 7/16 in. (11.1 mm) crown, 1-1/2 in. (38.1 mm) long for 1/2 in. (12.7 mm) sheathing
- 1-5/8 in. (41.3 mm) long for 5/8 in. (15.9 mm) sheathing.
**Installation Recommendations (continued)**

**eXP® SHEATHING**
- eXP Sheathing may be attached parallel to or perpendicular to wood or metal framing. For horizontal applications, install eXP Sheathing with end joints staggered.
- Use appropriate panel orientation for specific fire assemblies and shear wall applications, as required by the design.
- 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.
- Install eXP Sheathing with vertical edges butting over the center of framing members. Fit sheathing snugly around all openings.
- Install panels with a 3/8 in. (9.5 mm) gap where non-load-bearing construction abuts structural elements.
- To prevent wicking, install panels with a 1/4 in. (6.4 mm) gap where they abut masonry or similar materials that might retain moisture.

**eXP® SHAFTLINER**
Install eXP® Shaftliner consistent with methods described in specific application details for National Gypsum Cavity Shaftwall Systems or Area Separation Fire Wall Systems in NGC Construction Guide, or with other fire-resistance-rated designs.

**eXP® TILE BACKER**
- Do not embed eXP® Tile Backer into mortar bed in showers. Install with gray side facing away from the framing, apply tile/finishes to the gray side.
- Score/cut from the gray side using a standard utility knife. Cut outs are made easily with a utility knife or saw. Panel joints must be tight. Fill gaps and inside corners with flexible sealant.
- Drive fasteners flush with the panel surface; do not countersink.
- Hold tile backer boards in firm contact with the framing member while driving fasteners. Fastening should proceed from center portion of the panels toward the edges and ends. Take care to avoid breaking the facer of the tile backer board. 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.
- Embed alkali-resistant fiberglass tape with the tile setting material at tile backer board joints prior to tile installation.
- Maintain a room temperature of not less than 40°F (4°C) during application of tile backer boards.
- Install fire-rated assemblies in accordance with the details found in the UL Fire Resistance Directory or the Gypsum Association, GA-600, Fire Resistance Design Manual.

**eXP® INTERIOR EXTREME®**
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 on eXP® Interior Extreme® Panels in pre-rock applications until the building is enclosed.
eXP® INTERIOR EXTREME® AR
- 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 on eXP Interior Extreme AR Panels in pre-rock applications until the building is enclosed.

eXP® INTERIOR EXTREME® IR
- When handling eXP® Interior Extreme® IR, cutting and scoring should be from the back side of the panels.
- Listed impact ratings apply to walls constructed with eXP Interior Extreme IR 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 on eXP Interior Extreme IR Panels in pre-rock applications until the building is enclosed.

FIRE-RESISTANCE RATINGS
Fire-resistance ratings represent the results of tests on assemblies made of specific materials in a specific configuration. When you are selecting construction designs to meet certain fire-resistance requirements, use caution to ensure that each component of the assembly is specified in the test. Take further precautions to ensure that assembly procedures are in accordance with those of the tested assembly. For additional fire-safety information, please refer to nationalgypsum.com. For copies of specific tests, call 1-800-NATIONAL®.

SUSTAINABLE DESIGN
Recycled content data and manufacturing location data are available for National Gypsum Company products based upon current National Gypsum distribution plan and manufacturing location capabilities at the National Gypsum Company Green Product Score website: gps.nationalgypsum.com/Welcome.aspx.

GREENGUARD CERTIFICATION
Select eXP® products have achieved GREENGUARD and GREENGUARD Gold Certification. GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For details, visit: ul.com/gg.
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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.

For warranty information on specific products, see nationalgypsum.com.

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Mold And Mildew Resistance

eXP® Panels were designed to provide extra protection against mold and mildew compared to standard gypsum board products. When tested by an independent lab per ASTM D3273 (“Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber”), eXP Panels achieved a score of 10, the best possible score for this test. 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, eXP Panels can provide increased mold resistance versus standard gypsum board 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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