Gold Bond® BRAND High Strength Fire-Shield® LITE® 30 Gypsum Board consists of a fire-resistant, non-Type X gypsum core with a heavy, natural finish and 100-percent recycled paper on the face and back sides. It is specially formulated to be 30-percent lighter in weight than standard Type X Gypsum Board. The result is a superior board that is both sag resistant and easier to handle. The face paper is folded around the long edges to reinforce and protect the core, and the ends are cut square and finished smooth.

Use it for interior, 30-minute fire-rated or non-rated wall and ceiling applications.

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

Sizes: 5/8” (15.9 mm) thick boards are available in 4 ft. (1,219 mm) and in standard lengths of 8 ft. (2,438 mm) to 12 ft. (3,658 mm).

Finishing: Long edges are tapered or square. 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.

**NOTE:** This is a non-Type X product and is not a substitute for Type X Gypsum Board. The High Strength Fire-Shield LITE® 30 product is for single- or multi-layer gypsum board construction for 30-minute fire-rated or non-rated assemblies. The face of the board and the product end tapes are clearly labeled so the installer can identify this product for the appropriate application.
Basic Uses

APPLICATIONS

Use High Strength Fire-Shield® LITE 30 for single-layer construction in 30-minute fire-rated or non-rated assemblies.

ADVANTAGES

- 30-percent lighter than standard 5/8" (15.9 mm) Gold Bond® Fire-Shield® Gypsum Board, which results in easier handling.
- Features a fire-resistant non-Type X core and is UL Classified and approved for inclusion on specific UL fire-rated designs.
- Excellent working properties, including score and snap, reduced dust and improved strength-to-weight ratio.
- Fire-resistant material with a gypsum core will not support combustion or transmit temperatures greatly in excess of 212˚ F (100˚ C) until completely calcined, a slow process.
- Dimensionally stable under changes in temperature and relative humidity and resists warping, rippling, buckling and sagging.
- Features the GridMarX® preprinted fastening guide on the board to allow for faster and more accurate installation.
- Achieves GREENGUARD and GREENGUARD Gold Certification. GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit: ul.com/gg.
- Qualifies as a low-VOC emitting material by meeting California Specification 01350. For more information, visit: http://www.calrecycle.ca.gov/greenbuilding/specs/section01350/.

Installation Recommendations

GENERAL

- Install gypsum board in accordance with methods described in ASTM C840 and GA-216.
- Examine and inspect framing materials to which gypsum board is to be applied. Remedy all defects prior to installation of the gypsum board.
- GridMarX provides quick identification and uniform nail/screw patterns. Use GridMarX to make accurate cuts without drawing lines. GridMarX guide marks run the length of the board at five points in 4 in. (102 mm) increments. Marks run along the edge in both tapers and at 16 in. (406 mm), 24 in. (610 mm) and 32 in. (813 mm) in the field of the board. The marks cover easily with no bleed-through using standard paint products.
- Apply gypsum board 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 board edges into contact with each other but do not force into place.
- 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 board in firm contact with the framing member while driving fasteners. Fastening should proceed from center portion of the board toward the edges and ends. Set fasteners with heads slightly below the surface of the board. Take care to avoid breaking the face paper of the gypsum 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.
- Maintain a room temperature of not less than 40˚F (4˚C) during application of gypsum board.
- Maintain a room temperature of not less than 50˚F (10˚C) when using adhesive to attach the gypsum board 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.

FINISHING

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

### PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>High Strength Fire-Shield LITE 30</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>, Standard</td>
<td>8’ – 12’ (2,438 mm – 3,658 mm)</td>
</tr>
<tr>
<td><strong>Weight</strong>, Nominal</td>
<td>1.6 – 1.8 lbs. / sq. ft. (7.81 – 8.79 k/m²)</td>
</tr>
<tr>
<td><strong>Flexural Strength</strong>, Perpendicular</td>
<td>≥ 147 lbf. (654 N)</td>
</tr>
<tr>
<td><strong>Flexural Strength</strong>, Parallel</td>
<td>≥ 46 lbf. (205 N)</td>
</tr>
<tr>
<td><strong>Humidified Deflection</strong></td>
<td>≤ 5/8&quot; (15.9 mm)</td>
</tr>
<tr>
<td><strong>Nail Pull Resistance</strong></td>
<td>≥ 87 lbf. (387 N)</td>
</tr>
<tr>
<td><strong>Hardness</strong> – Core, Edges and Ends</td>
<td>≥ 11 lbf. (49 N)</td>
</tr>
<tr>
<td><strong>Bending Radius</strong></td>
<td>15' (4,572 mm)</td>
</tr>
<tr>
<td><strong>Thermal Resistance</strong></td>
<td>R = .56</td>
</tr>
<tr>
<td><strong>Product Standard Compliance</strong></td>
<td>ASTM C1396</td>
</tr>
<tr>
<td><strong>Core Type</strong></td>
<td>Non-Type X</td>
</tr>
<tr>
<td><strong>UL Type Designation</strong></td>
<td>FSL30</td>
</tr>
<tr>
<td><strong>Combustibility</strong></td>
<td>Non-combustible Core</td>
</tr>
<tr>
<td><strong>Surface Burning Characteristics</strong></td>
<td>Class A</td>
</tr>
<tr>
<td><strong>Flame Spread</strong></td>
<td>15</td>
</tr>
<tr>
<td><strong>Smoke Development</strong></td>
<td>0</td>
</tr>
</tbody>
</table>

### Fire-Resistance Characteristics

- **Core Type**: Non-Type X
- **UL Type Designation**: FSL30
- **Combustibility**: Non-combustible Core
- **Surface Burning Characteristics**: Class A
- **Flame Spread**: 15
- **Smoke Development**: 0

### Applicable Standards and References

4. **ASTM C1396 Standard Specification for Gypsum Board**
7. **Gypsum Association, GA-214, Recommended Levels of Finish for Gypsum Board, Glass Mat and Fiber-Reinforced Gypsum Panels**
9. **Gypsum Association, GA-238 Guidelines for Prevention of Mold Growth on Gypsum Board**
10. **National Gypsum Company, NGC Construction Guide**

1. Specified values per ASTM C1396, tested in accordance with ASTM C473.
2. Tested in accordance with ASTM E136.
3. Tested in accordance with ASTM E84.
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.
**DECORATION**

Ensure gypsum board 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.

**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 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.

**Limitations**

- Do not substitute High Strength Fire-Shield® LITE® 30 for Type X Gypsum Board as 5/8” High Strength Fire-Shield LITE® 30 is not classified as a Type X.
- Avoid exposure to excessive or continuous moisture and extreme temperatures. Do not expose gypsum board to temperatures exceeding 125°F (52°C) for extended periods of time.
- Properly ventilate or condition attic spaces to remove moisture buildup above gypsum board ceilings. If required, install a vapor retarder in exterior ceilings behind gypsum board.
- Avoid installing gypsum board directly over insulation blankets with facer flanges placed continuously across the face of the framing members; recess insulation blankets and attach flanges to the sides of framing.
- Isolate gypsum board from contact with building structure in locations where structural movement may impose direct loads on gypsum board assemblies.
- Provide control joints spaced not more than 30 ft. (9,144 mm) where employing long continuous runs of walls, partitions or ceilings without perimeter relief.
- Avoid gypsum board joints within 12 in. (305 mm) of the corners of window or door frames unless installing control joints at these locations.
- Space supporting framing for single-layer application of 5/8 in. (15.9 mm) gypsum board a maximum of 24 in. (610 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.