ToughRock® Fireguard X® Mold-Guard™ MAX-Impact Gypsum Board

**Description**

ToughRock® Fireguard X® Mold-Guard™ MAX-Impact Gypsum Board is designed for wall and ceiling assemblies in high-traffic areas where surface durability and indentation resistance are especially important, such as schools, hospitals, corrections facilities and offices. It also offers enhanced protection, compared to traditional paper face gypsum board, against mold and moisture exposure that can cause deterioration and/or stains. ToughRock Fireguard X Mold-Guard MAX-Impact Gypsum Board is specially formulated to offer greater resistance to abrasion, rubbing, scraping, gouging and indentation on the surface.

Technical Service Hotline: 1-800-225-6119

**Product Specification**

ToughRock Fireguard X Mold-Guard MAX-Impact Gypsum Board is manufactured to meet the requirements of ASTM C1396 Section 7, 12, CSA A82.27-M; Federal Specification SS-L-30D Type III Grade W, X; abuse resistant when tested in accordance with ASTM C1629, and conforms to the requirements of uniform IBC/IRC and NBCC building codes pertaining to Type X gypsum board.

**Limitations**

- ToughRock Fireguard X Mold-Guard MAX-Impact Gypsum Board is a non-structural product and should not be used as a nailing base to support heavy wall-mounted objects.
- It is intended for interior applications only.
- It must be kept dry and cannot be used where exposure to moisture is extreme or continuous.
- Do not use ToughRock Fireguard X Mold-Guard MAX-Impact Gypsum Board where there is prolonged exposure to temperatures exceeding 125°F (52°C) and/or continuous exposure to extreme humidity, e.g., adjacent to radiant heating systems, wood-burning stoves, heating appliances, saunas or steam rooms.

**Avoidance Techniques**

When using ToughRock Fireguard X Mold-Guard MAX-Impact Gypsum Board products, it is best practice to avoid the formation of mold or mildew.

**Advantages**

- Highly resistant to abuse. Offers greater resistance to abrasion, gouging and impact on the surface compared to regular gypsum board.
- Low installation cost. Easy-to-install; goes up quickly and finishes easily when compared to block construction.
- Classified for fire resistance ratings. Core meets criteria for Type X as defined in ASTM C1396. See fire resistance directory for listings and additional information.

**Moisture and Mold Resistance**

ToughRock Fireguard X Mold-Guard MAX-Impact Gypsum Board is designed to provide extra protection against mold and mildew compared to traditional paper-faced gypsum board products. When tested, as manufactured, per ASTM D3273 ("Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber"), ToughRock Fireguard X Mold-Guard MAX-Impact Gypsum Board achieved a score of 10, the best possible score for this test.

The use of ToughRock Fireguard X Mold-Guard MAX-Impact Gypsum Board in actual installations may not produce the same results as were achieved in controlled, laboratory conditions. 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, ToughRock Fireguard X Mold-Guard MAX-Impact Gypsum Board 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.

**Handling Precautions**

Product is heavier than typical 5/8” (15.9 mm) board. Caution must be used when handling and moving board. Store ToughRock Fireguard X Mold-Guard MAX-Impact Gypsum Board off the ground and under cover. Stack the product flat on a level surface. Use risers to ensure support for the entire length of the board to prevent sagging. As individual sheets are removed for installation, they should be raised up on edge carefully and carried in a vertical position. (Appropriate handling is outlined in Gypsum Association publications GA 216 and GA-801.) Avoid impact, undue flexing and subsequent damage to panel edges, ends and corners.

**Safety Data Sheet**

Safety Data Sheet (SDS) is available upon request or online at www.buildgp.com/safetyinfo.
### Physical Properties

<table>
<thead>
<tr>
<th>Properties</th>
<th>ToughRock® Fireguard X® Mold-Guard™ MAX-Impact Gypsum Board</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness, nominal inches</td>
<td>5/8&quot; (15.9 mm), ± 1/64&quot; (0.4 mm)</td>
</tr>
<tr>
<td>Width, nominal</td>
<td>4&quot; (1220 mm), ± 3/32&quot; (2.4 mm)</td>
</tr>
<tr>
<td>Length, standard</td>
<td>8' (2440 mm) to 12' (3658 mm) ± 1/4&quot; (6.4 mm)</td>
</tr>
<tr>
<td>Weight¹, lbs./sq. ft., nominal (kg/m²)</td>
<td>3.0 (14.6)</td>
</tr>
<tr>
<td>Edges</td>
<td>Tapered edge</td>
</tr>
<tr>
<td>Flexural Strength² spacing, min.</td>
<td>Parallel, lbf. (N)</td>
</tr>
<tr>
<td></td>
<td>Perpendicular, lbf. (N)</td>
</tr>
<tr>
<td></td>
<td>≥46 (205)</td>
</tr>
<tr>
<td></td>
<td>≥147 (654)</td>
</tr>
<tr>
<td>R Value², lbf.·ft•hr/ft² (ft²•K/W)</td>
<td>0.56 est. (0.10)</td>
</tr>
<tr>
<td>Nail Pull Resistance², lbf. (N)</td>
<td>≥87 (387)</td>
</tr>
<tr>
<td>Hardness², lbf. (IN), (core, edges and ends)</td>
<td>≥15 (67)</td>
</tr>
<tr>
<td>Humidified Deflection³</td>
<td>5/8&quot; (16 mm)</td>
</tr>
</tbody>
</table>

### Surface Burning Characteristics³ (per ASTM E84)
- Flame Spread: 0
- Smoke Developed: 0

(The core is noncombustible when tested in accordance with ASTM E136.)

³ Specified minimum values are as defined in ASTM C1386.

¹ Actual weight may vary depending on manufacturing location and other factors.

² Per Gypsum Association document GA-235.

### ToughRock® Fireguard X® Mold-Guard™ MAX-Impact Gypsum Board Test Results

<table>
<thead>
<tr>
<th>Test</th>
<th>General Description of Test</th>
<th>Test Result Metrics</th>
<th>Product Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Abrasion</td>
<td>A wire brush is cycled across the board surface. Failure is recorded as the depth of abrasion after 50 cycles. The lower the number, the better the abrasion resistance.</td>
<td>Surface Abrasion</td>
<td>Level 3*</td>
</tr>
<tr>
<td>Surface Damage ASTM C1629</td>
<td>Surface Indentation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface Damage ASTM C1629</td>
<td>Surface Indentation</td>
<td>Indentation Resistance</td>
<td>Level 1</td>
</tr>
<tr>
<td>Surface Indentation</td>
<td>A 8 lb (3.6 kg) weight is raised 9 inches, (229 mm) then dropped onto a small 5/8&quot; (15.9 mm) round die which hits the sample. The value reported is the average of 3 or more tests.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface Damage ASTM C1629</td>
<td>Soft-Body Impact Penetration</td>
<td>Soft-Body</td>
<td>Level 3</td>
</tr>
<tr>
<td>Soft-Body Impact Penetration</td>
<td>A leather bag filled with 60 lbs. (27 kg) of shot is released against the surface of the board at increasing height until failure.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hard-Body Impact Penetration</td>
<td>Bard is impacted with a steel cylinder on a pendulum. The maximum amount of impact force the panel can withstand without breaching the wall cavity is measured.</td>
<td>Hard-Body</td>
<td>Level 3</td>
</tr>
</tbody>
</table>

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**FIRE SAFETY CAUTION**
Passing a fire test in a controlled laboratory setting and/or certifying or labeling a product as having a one-hour, two-hour, or any other fire resistance or protection rating and, therefore, as acceptable for use in certain fire rated assemblies/systems, does not mean that either a particular assembly/system incorporating the product, or any given piece of the product itself, will necessarily provide one-hour fire resistance, two-hour fire resistance, or any other specified fire resistance or protection in an actual fire. In the event of an actual fire, you should immediately take any and all actions necessary for your safety and the safety of others without regard for any fire rating of any product or assembly/system.