

**Product Description**

StructGuard<sup>®</sup> TS mold-resistant structural gypsum sheathing is designed as a mold-, water- and fire-resistant substrate for various siding materials on the exterior of residential and commercial buildings. This product provides structural strength as well as fire, sound and weather properties. StructGuard TS features the TemShield<sup>®</sup> mold-protection system manufactured into its core and facers on both sides.

**Advantages**

- Mold- and water-resistant core and facers
- Permeability allows unwanted water vapor to pass through
- Provides code-required structural bracing support
- Low material and application cost
- May be installed over wood or metal framing
- Available in 1/2" thickness with regular water-resistant core and 5/8" thickness with a fire- and water-resistant core
- Fire resistance classified by Underwriters Laboratories according to ASTM E119<sup>1</sup>
- Moisture absorption <6%
- Available with a minimum of 93% certified recycled content on a dry-weight basis in accordance with ISO 14021 standards<sup>2</sup>

**Limitations**

- Should not be used as a nailing base
- Application to framing by adhesive only is not recommended
- Not recommended for ceiling or floor structural applications
- Not intended for long-term exposure to weather, 30-day maximum
- Should not be applied below grade
- Should not be adhered to masonry surfaces
- Should be stored, handled and installed to comply with industry standards GA253 and ASTM C1280 for gypsum sheathing or GA254 for fire-resistant sheathing

**Applicable Standards**

- Meets or exceeds ASTM C1396
- Resists water penetration as tested per ASTM E331 when installed using foil tapes (Polyken 626-35 and 4" Window Wrap by MFM Building Products) along all exposed joints
- Federal Specification SS-L-30D, Type II, Grade W & Grade X, Class II
- Installation Standards ASTM C1280, GA253 & GA254
- Surface Burning Characteristics ASTM E-84, Flame Spread 15, Smoke Developed 0
- Permeability rating per ASTM E96 for 1/2" is 24.6; 5/8" is 21.6
- Mold resistance tested as per ASTM D3273 Mold score 10 of a possible 10<sup>3</sup>

**Submittal Approvals**

JOB NAME: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_ DATE: \_\_\_\_\_

**Product Data**

WIDTH	LENGTH	THICKNESS / PRODUCT WEIGHT	EDGE FORMATION	NAILING PATTERN
4' (1219mm)	8', 9', 10', 12'	1/2" 1.72 lbs/ft <sup>2</sup> 5/8" 2.4 lbs/ft <sup>2</sup>	Square	4" perimeter 8" in the field

**Special Order Information:** Other widths, edges and lengths may be available on special order with established minimums and lead time. Some products may not be available in all markets. Please check with your local Temple-Inland sales representative.

1. This material complies to ASTM E119 and therefore may provide a fire rating of one or more hours, depending on the system in which it is applied. Because ASTM procedures require that fire tests be conducted on complete building assemblies/systems and not just on the gypsum board itself, the ability of any particular 5/8" Type X gypsum board product to pass a specific ASTM fire test may well depend on factors other than the fire resistance of the gypsum board being tested. These factors include the other components used to construct the building system being tested, the manner in which the system is constructed and the inherent variability of ASTM fire tests.
2. The recycled content levels of board produced in our Cumberland City, and West Memphis facilities are third-party verified by Scientific Certification Systems (SCS).
3. Mold and Mildew Resistance: StructGuard TS scored significantly better than untreated board when tested per ASTM D3273 (Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber). This means the potential for growth of mold and mildew is greatly reduced compared to untreated panels. This ASTM lab test may not be applicable to the actual performance of building materials. No material may be labeled mold proof, and resistance to mold growth depends on many factors. Prolonged exposure to moisture may cause mold and mildew to grow on any surface. Therefore, in order to maximize the mold and mildew resistance of a material, it is essential that good design, handling and construction practices be implemented. This involves avoiding water exposure during all phases of storage, handling, shipping, installation and after installation is complete.

