

STRUCTGUARD® TS

a TempleInland product

Structural Sheathing



Discover the green light to sheathing performance and protection

Gypsum sheathing with wall-bracing performance

StructGuard® TS structural gypsum sheathing gives you the green light to a job well done. It delivers code-recognized wall-bracing strength, exceptional application efficiency and superior cost-to-value benefits. Enhanced with our TemShield® Mold Protection System, it also offers tested resistance to moisture absorption and mold growth that require extra time, labor and expense to repair.



StructGuard TS is available in a 1/2" thickness and a 5/8" thickness which is suitable for use in 1-hour fire-rated assemblies. It's installed with traditional gypsum board tools. It's permeable to relieve wall-cavity moisture buildup. And it's now printed with stud location marks at 16" o.c. and 24" o.c. StructGuard TS is designed for improved sheathing performance. It's the starting point for a job well done.

Greater Performance. Wider Application.

TempleInland®

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Structural Strength Plus Moisture Protection.

Designed to deliver the structural strength needed to meet building codes, the efficient installation to maintain tight schedules and the moisture resistance to avoid costly mold and water damages, StructGuard[®] TS is the smart exterior sheathing choice.

Building Code Recognition

StructGuard TS meets the requirements for structural gypsum sheathing in the IRC, IBC, UBC, SBC and NBC. Each board is imprinted with IRC R602.10.3 reference. Please refer to your local building code.

Compliances

StructGuard TS panels are manufactured per ASTM 1396 and should be installed in accordance with ASTM C1280 or GA253 for gypsum sheathing and GA254 for fire-resistant sheathing. The nailing pattern is 4" around the perimeter and 8" in the field.

Mold and Moisture Resistance

Each panel is composed of an enhanced mold- and water-resistant core encased in mold- and water-resistant facers on both sides. StructGuard TS has the TemShield[®] Mold Protection system, which provides a significant degree of mold resistance compared to untreated panels as per ASTM D3273,* the standard test of mold resistance, and scored a 10 out of a possible 10 in laboratory evaluations. Its resistance to water absorption was tested per ASTM C473. StructGuard TS has been shown to resist 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.

Recycled Content Certification

StructGuard TS is certified in accordance to ISO 14021 standards to have recycled material content. All certified products feature a gypsum core sandwiched between recycled facers. StructGuard TS is available with a minimum of 93% certified recycled content for environmental "green" requirements. The recycled content levels of board produced in our Cumberland City, Tennessee, Fletcher, Oklahoma, and West Memphis, Arkansas, facilities is third-party verified by Scientific Certification Systems (SCS). This certified material composition can contribute toward recycled material credits in the LEED rating system as well as other rating systems.

*Note: The ASTM D3273 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. See GA238 for more information.



StructGuard[®] TS can be fastened using nails, screws or staples and adds a measure of fire and mold resistance other sheathing alternatives can't match.

TYPICAL PROPERTIES		
	1/2"	5/8"
Width	4'	4'
Lengths	8', 9', 10', 12'	8', 9', 10', 12'
Edge	Square	Square
Weight	1.72 lb./sq. ft.	2.4 lb./sq. ft.
R-Value, (K·m ² /W)**	0.45	0.56
Thermal resistance		
Water Absorption, (% max)		
By volume (2 hours)	< 6%	< 6%
Permeability, (Perms)		
Per ASTM E96	24.6	21.6
Federal Specifications		
Type - Grade - Class	SS-L-30D II - W - 2	SS-L-30D II - W,X - 2
Flame Spread	15 (Per ASTM E84)	15 (Per ASTM E84)
Smoke Developed	0	0

*5/8" complies with all UL designs and requirements as currently exist in Type X products.
 ***R" is resistance to heat flow. The higher the R-value, the greater the insulating value.

Limitations

- Avoid exposure to constant moisture before, during and after installation.
- Should not be applied below grade.
- Should not be adhered to masonry surfaces.
- Should not be used as a base for any mechanical fastening including nailing.
- Do not use for floor structural applications.



Certified to meet the CHPS performance standard for low-emitting materials.

Temple-Inland[®]

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