

MAXTERRA®

MgO Non-Combustible Structural Sheathing



Revolutionizing Building with Advanced MgO Technology

NEXGEN MAXTERRA® MgO is a best-in-class, innovative, and versatile mineral-based building material that utilizes magnesium oxysulfate cement technology. It stands as a superior alternative to conventional materials by offering unmatched fire resistance, water resistance, as well as mold and mildew resistance, all without the use of harmful chemicals. Distinctly mineral-based, it's free from VOCs, silica, and carcinogens. Its sulfate-based formulation distinguishes it from traditional chloride-based MgO products, addressing corrosion issues and aligning with future safety and environmental compliance standards.

MAXTERRA® MgO Non-Combustible Structural Sheathing are high density structurally rated magnesium oxide products that can be used as a direct replacement for: plywood and OSB for exterior sheathing, interior and exterior gypsum panels, floor underlayment, concrete underlayment, and fire rated walls for stairwells and elevator shafts.

Key Benefits

- ▶ **Non-Combustible & Fire Resistance:** ASTM E136 Noncombustible Rating, ASTEM E119 / UL 263 1 and 2-hour rated wall assemblies, ASTM E84, Flame Spread Index of 0, Smoke Developed Index of 0, chemical-free fire protection.
- ▶ **Structural:** Allowable transverse wind loads of +47 psf / - 35 psf and allowable shear loads of up to 288 lb/ft with 24-inch stud spacing. Can be used prescriptively as a direct replacement for type WSP braced wall panels under the IRC.
- ▶ **Natural Disaster Resilience:** Enhanced flexural strength, resistance to moisture, and superior durability.
- ▶ **Healthier Living Environment:** No Harmful chemicals, no carcinogens, no VOC's.
- ▶ **Fiber Reinforced for Strength:** Multiple embedded fiberglass layers for superior bending strength ASTM C1185, compression indentation ASTM D2394, and impact resistance ASTM D1037.
- ▶ **Mold and Mildew Resistance:** Inorganic core material advantage, enhanced moisture resistance, proven performance in ASTM G21 testing.
- ▶ **Pest and Insect Resistance:** Unappealing to pests due to inorganic composition, alkaline environment, and dual protection against moisture.
- ▶ **Water and Storm Resistance:** Robust in moist environments and extreme weather conditions, prevents organic growth.

A safer, stronger, healthier way to build.

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MgO Non-Combustible Structural Sheathing

Recognized as the world's leading manufacturer of MgO products, MAXTERRA® MgO Non-Combustible Structural Sheathing represents a leap forward in construction technology, offering a robust and sustainable alternative to conventional sheathing materials.

Description	High-impact resistance and structural support.
Uses	Exterior and Interior Sheathing, Underlayment, SIP Skins.
Replaces	OSB, Plywood, Engineered Wood Sheathing, Other Structural Panelized Wall Sheathing Products.
Key Advantages	<ul style="list-style-type: none">■ Enhanced Safety: Eliminates flammable materials.■ Installed with conventional building techniques - cut with circular saw; fasten with nails or screws.■ Long-Lasting Durability: Sturdy, low-maintenance solution.■ Versatile Application: Suitable for various sheathing needs.
Physical Specifications	<ul style="list-style-type: none">■ Thicknesses: 1/2" (12mm), 5/8" (16mm).■ Dimensions: 4' x 8', 4' x 10', 4' x 12'.■ Weight:<ul style="list-style-type: none">□ 1/2" - 2.83 lbs/sq ft□ 5/8" - 3.77 lbs/sq ft■ Edge Treatments: Square
Code Compliance	<ul style="list-style-type: none">■ ICC ESR-5193■ Non-Combustible: ASTM E-136 rating.■ ASTM E84 Flame Spread 0, Smoke Developed 0■ AC 386, AC 376, AC 378 Fiber Reinforced MgO Sheathing.■ E119/UL 263 One and Two Hour Fire Rated Assemblies.



Suitable for All Residential and Commercial Construction

Scan to review our complete testing reports.



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