

# MAXTERRA®

## MgO Non-Combustible Single Layer Structural Floor Panels



## 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 Single Layer Structural Floor Panels can be used as a single-layer replacement for plywood and OSB subflooring panels as well as gypcrete underlayment. NEXGEN panels can be easily attached directly to wood or steel joists using corrosion-resistant screws or conventional framing nails.

### 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.
- ▶ **Mold and Mildew Resistance:** Advanced composition core material advantage, enhanced moisture resistance, proven performance in ASTM G21 testing.
- ▶ **Natural Disaster Resilience:** Enhanced flexural strength, resistance to moisture, and superior durability.
- ▶ **Pest and Insect Resistance:** Unappealing to pests due to advanced composition, alkaline environment, and dual protection against moisture.
- ▶ **Water and Storm Resistance:** Robust in moist environments, prevents organic growth.
- ▶ **Healthier Living Environment:** No Harmful chemicals, no carcinogens, no VOC's.

A safer, stronger, healthier way to build.

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## MgO Non-Combustible Single Layer Structural Floor Panels



MAXTERRA® MgO Non-Combustible Single Layer Structural Floor Panels are at the forefront of sustainable construction technology, offering a high-strength and environmentally conscious alternative to traditional materials.

<b>Description</b>	Strong, durable flooring solution.
<b>Uses</b>	Single layer subfloor.
<b>Replaces</b>	OSB, Plywood, Plywood/OSB Combination Plywood/Gypcrete Combination and their structural panelized flooring products.
<b>Key Advantages</b>	<ul style="list-style-type: none"><li>■ Installation Ready: Simplifies building process.</li><li>■ Single-Layer Efficiency: Material efficiency.</li><li>■ Edge Treatments: Various options based on design.</li><li>■ Superior Strength: Long-term durability.</li><li>■ Span Rating of 24" OC: Robust structural capacity (133 psf allowable load at L/480 deflection limit).</li><li>■ Installed with a single trade, using conventional building techniques - cut with circular saw; fasten with nails or screws.</li></ul>
<b>Physical Specifications</b>	<ul style="list-style-type: none"><li>■ Thicknesses: 3/4" (20mm).</li><li>■ Dimensions: 4' x 8', 4' x 10'.</li><li>■ Weight - 4.92 lbs/sq ft</li><li>■ Edge Treatments: Tongue and Groove, Square Edge.</li></ul>
<b>Code Compliance</b>	<ul style="list-style-type: none"><li>■ ICC ESR-5194</li><li>■ Non-Combustible: ASTM E-136 rating.</li><li>■ ASTM E84 Flame Spread Index of 0 Smoke Developed Index of 0.</li><li>■ AC 386, AC 318, AC 367.</li><li>■ One Hour Floor/Ceiling Fire Rating.</li><li>■ Two Hour Floor/Ceiling Fire Rating.</li></ul>

## Suitable for All Residential and Commercial Construction



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