MAXTERRA[™]

Structural Floor and Roof Panels

Revolutionizing Building with Advanced MgO Technology

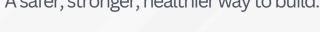
NEXGEN MAXTERRA™ MgO is a **best-in-class**, innovative, and versatile mineral-based building material primarily composed of magnesium oxide and sulfate. It stands as a superior alternative to conventional materials such as OSB, plywood, gypsum, and gypcrete by offering unmatched non-combustibility, 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 3/4 T&G high-density structurally rated magnesium oxide 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.

Key Benefits

- Noncombustible & Fire Resistance: Inherently noncombustible, ASTM E136 Noncombustible Rating, Flame Spread Index of 0, Smoke Developed Index of 0, chemical-free fire protection.
- **Natural Disaster Resilience:** Enhanced flexural strength, inherent non-combustibility, resistance to moisture, and superior impact resistance.
- Mold and Mildew Resistance: Inorganic material advantage, enhanced moisture resistance, proven performance in ASTM D3273 testing.
- A safer, stronger, healthier way to build.

- Pest and Insect Resistance: Unappealing to pests due to inorganic composition, alkaline environment, and dual protection against moisture.
- Storm Resilience: Strong against moisture and extreme weather conditions.
- Water Resistance: Impervious to water, robust in moist environments, prevents organic growth.
- **Healthier Living Environment:** No Harmful chemicals, no carcinogens, no VOC's.

















NEXGEN
BUILDING PRODUCTS

MAXTERRA[™]

Structural Floor and Roof Panels

Recognized globally, **MAXTERRA's Structural Floor** and Roof Panels are at the forefront of sustainable construction technology, offering a high-strength and environmentally conscious alternative to traditional materials.

Description Strong, durable flooring and roofing

solution.

Replaces • Plywood

OSB

Plywood/OSB Combination

• Plywood/Gypcrete Combination

Physical Specifications

• Thicknesses: 3/4" (20mm).

Dimensions: 4' x 8', 4' x 10'.

• Weight - 4.92 lbs/sq ft

• Edge Treatments: Tongue and Groove,

Square Edge.

Uses

Single layer subfloor, single layer roof panel.

Key Advantages Installation Ready: Simplifies building process.

• Single-Layer Efficiency: Material efficiency.

• Edge Treatments: Various options based on design.

• Superior Strength: Long-term durability.

• High Span Rating of 24" OC: Robust structural capacity.

Lightweight: Easier than alternatives.

• Installed with a single trade.

Code Compliance • ICC ESR-5194

Noncombustible: ASTM E136 rating

• Flame Spread Index of 0, Smoke Developed Index of 0.

AC 386, AC 318, AC 367

One Hour Floor/Ceiling Fire Rating

Two Hour Floor/Ceiling Fire Rating



Suitable for All Residential and Commercial Construction

A safer, stronger, healthier way to build.













