

# 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 non-combustible, 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.
- **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.

A safer, stronger, healthier way to build.



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**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

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