

MAXTERRA® MgO Non-Combustible Structural  
Floor Panels Submittal Form

Submitted To		
Project Name		
Project Number		
Prepared By		
Phone/Email		
Date		
Status / Action	For Review For Approval	For Record For Information Only

■ Submittal Type (check all that apply)

- TDS
- 3-Part Specs
- Test Report ICC-ESR 5194
- Test Report ICC-ESL 1645
- Fire Assembly
  - Fire Assembly 01
  - Fire Assembly 02
  - Fire Assembly 03
- Material Safety Data Sheet (MSDS)
- LEED Guide
- Installation Guide
- Warranty
- Samples
- Other:

Product            3/4-in (20mm)

## What Are MAXTERRA® MgO Non-Combustible Structural Floor Panels

MAXTERRA® MgO Non-Combustible Structural Floor Panels are high-performance subfloor panels with tongue and groove edges engineered to deliver fire resistance, acoustical performance, structural performance, and long-term durability in a single product.

### Applications

MAXTERRA® MgO Non-Combustible Structural Floor Panels are engineered and tested for use on wood and cold-formed steel framing across a wide range of structural subfloor applications, delivering superior structural performance, fire resistance, acoustic control, and long-term durability. Designed to replace traditional plywood, OSB, wet-laid gypsum underlayment, or concrete deck systems, MAXTERRA® MgO Non-Combustible Structural Floor Panels provide a stronger, more dimensionally stable platform that meets the demands of multifamily, hospitality, modular, and other high-performance construction projects. MAXTERRA® MgO Non-Combustible Structural Floor Panels are recognized by the International Code Council Evaluation Service (ICC-ES) under Evaluation Report ESR-5194, Listing Report ELS-1645, and Underwriters Laboratories (UL) under Report R41539 confirming compliance for use in fire-rated and sound-rated floor assemblies across Types I-V construction.

### Skip-the-Gyp™ & Ditch-the-Deck™ Advantage

MAXTERRA® MgO Non-Combustible Structural Floor Panels are engineered as a single-layer system that delivers a faster, cleaner, and more efficient installation process while achieving code-required STC/IIC sound when installed as part of tested floor/ceiling assemblies. Unlike gypsum cement underlayment or costly and complex pan-and-pour systems, MAXTERRA® panels eliminate the need for a separate wet-floor trades, door header or base plate modifications, added project oversight, and lengthy cure times that can delay or halt construction schedules. The result is a streamlined, single-trade solution that ensures reliable fire, sound, and structural performance across all types of high-demand projects.

### Availability

MAXTERRA® MgO Non-Combustible Structural Floor Panels are available through NEXGEN Building Products authorized distribution partners nationwide. For purchasing information, technical support, or to locate a distributor near you, visit <https://nexgenbp.com/find-rep-or-distributor> or contact NEXGEN Building Products directly +1(727)620-3334.

### Sound Attenuation

MAXTERRA® MgO Non-Combustible Structural Floor Panels have been evaluated in floor/ceiling assemblies for Sound Transmission Class (STC) in accordance with ASTM E90, and Impact Insulation Class (IIC) in accordance with ASTM E492. Evaluated assemblies are detailed in ICC-ES Listing Report ESL-1645.

Please visit NEXGEN Building Products resource page to find most up-to-date assemblies:  
<https://nexgenbp.com/resources>

Fire Resistance

MAXTERRA® MgO Non-Combustible Structural Floor Panels have been evaluated in floor/ceiling assemblies for fire-resistance in accordance with ASTM E119 (Standard Test Methods for Fire Tests of Building Construction and Materials) and ANSI/UL 263 (Fire Tests of Building Construction and Materials). Evaluated assemblies include: UL H501, UL H505, UL H515, UL H524, UL L502, UL L525, UL L528, & UL M500. Please visit NEXGEN Building Products resource page to find most up-to-date assemblies: <https://nexgenbp.com/resources>

Floor Covering

Many types of finished floor coverings can be installed over MAXTERRA® MgO Non-Combustible Structural Floor Panels. Before applying any floor covering, always check the flooring manufacturer's installation requirements and confirm compatibility with the substrate. Follow all requirements for primers, adhesives, mortars, self-levelers, underlayment, and related materials. Floor coverings commonly installed over MAXTERRA® panels include (but are not limited to): Engineered wood flooring, Vinyl, LVP, LVT, Carpet, & Tile (tile requires an additional tile backer underlayment). Refer to the MAXTERRA® MgO Non-Combustible Structural Floor Installation Guide for complete information regarding finished flooring installation: <https://nexgenbp.com/resources>

Fasteners

Fasteners used with MAXTERRA® MgO Non-Combustible Structural Floor Panels must be code-recognized and inherently resistant to corrosion, or factory-coated for corrosion resistance (electro-galvanized or better). Use only approved fasteners suitable for the specific assembly and substrate to ensure long-term performance. Refer to the MAXTERRA® MgO Non-Combustible Structural Floor Installation Guide for complete information regarding fastener schedules: <https://nexgenbp.com/resources>

Available Thicknesses	3/4-inch (20 mm)
Available Lengths	8 feet; 10 feet
Product Weight	4.92 lb/sqft
Edge Profile	Tongue & Groove (TG), & Square Edge (SE)*
Mold / Mildew Resistance (ASTM G21)	"0 Growth Observed"
Non-Combustibility Test (ASTM E136)	Non-Combustible; Permitted for use in Types I-IV construction
Surface Burning Characteristics (ASTM E84 / UL 723)	Flame Spread Index: 0 Smoke Developed Index: 0
Allowable Uniform Load	133 psf L/600 deflection limit (24-inch joist spacing)
Diaphragm Performance (ASTM E455, AISI S907)	Up to 1607 plf (nominal)
Rated Floor / Ceiling Assemblies (ASTM E119 / UL 263)	Evaluated for performance in One-Hour and Two-Hour rated assemblies
STC / IIC Acoustic Performance (ASTM E90 and ASTM E492)	See ESL-1645
Allowable Exposure	Up to 200 days

