

Submittal Sheet

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Product Overview

MagPanel™ is a premium, high-density magnesium oxide (MgSO₄) board designed for superior performance in both structural and non-structural applications. Engineered to outperform conventional materials, MagPanel™ offers a combination of exceptional fire resistance, moisture control, and durability, making it the ideal choice for walls, ceilings, flooring underlayment, exterior sheathing, and more.

Key Features

1. Fire Resistance:

- A1 Fire Rating in accordance with ASTM E84-24.
- Certified under EN ISO 1716 and EN 13501-1+A1:2010, clause 12.
- Rated non-combustible with a zero flame spread and zero smoke development rating.
- Certified for use in 1-hour and 2-hour fire-rated wall and subfloor assemblies.

2. Moisture and Mold Resistance:

- Impervious to moisture — MagPanel™ maintains its structural integrity even after prolonged exposure to extreme high and low humidity and moisture.
- Zero organic content ensures no support for mold or mildew growth.

3. Impact Strength:

- High durability, capable of withstanding heavy impact in high-traffic environments such as hospitals, schools, and commercial facilities.

4. Eco-Friendly Composition:

- Contains no harmful substances like formaldehyde, crystalline silica, or fly ash.
- Zero off-gassing and manufactured in a low-energy, controlled environment.

5. Versatility:

- Suitable for a wide range of applications: interior and exterior sheathing, fire-rated partitions, subfloors, soffits, and backer boards.

- Available in various sizes, thicknesses, and edge options including shiplap, tongue and groove, and standard butt joints.
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Product Specifications

Thickness Options:

- Imperial: 1/8", 1/4", 11/32", 11/32", 13/32", 1/2", 19/32", 5/8", 11/16", 3/4", 1"
- Metric: 3mm, 6mm, 9mm, 10mm, 12mm, 15mm, 16mm, 18mm, 19mm, 20mm, 25mm

Standard Dimensions:

- Imperial: 4' x 8', 4' x 9', 4' x 10'
- Metric: 1220mm x 2440mm, 1220mm x 2750mm, 1220mm x 3050mm

*Custom sizes and dimensions are available upon request for large orders.

Applications

1. Fire-Rated Wallboard:

Designed for interior or exterior use, this board is ideal for fire-rated assemblies. It can be taped and plastered like drywall, offering a Level 5 finish with minimal effort.

2. Exterior Sheathing:

Provides a smooth, stable surface for external cladding, paint, stucco, or other finishes. Certified for structural sheathing applications.

3. Subflooring:

A single-layer subfloor that supports tile, hardwood, and laminate installations. Spans up to 24" on-center and can be glued and screwed for optimal performance.

4. Soffits and Siding:

Fire-rated ventilated and non-ventilated soffits, as well as smooth or wood-grain lap siding, enhance both safety and aesthetics for exterior applications.

5. Tile Backer Board:

Water-resistant and non-combustible, providing a secure substrate for tile installations in wet or dry areas.

Product Benefits

- **Termite Resistance:** Inorganic composition prevents termite and carpenter ant damage.
 - **Fastener Performance:** Superior fastener holding capacity—ideal for mounting cabinets, rails, and other fixtures without additional blocking.
 - **Low Water Content:** Manufactured with less than 5% water content, reducing the risk of shrinkage or deformation.
 - **Cost Efficiency:** Reduced installation and finishing costs compared to gypsum or fiber-cement boards. A Level 5 finish can be achieved with one coat of primer and a topcoat.
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Packaging and Storage

- **Shipping:** Palletized with protective corner guards, shrink wrap, double-strapping, and shipped on extra large skids.
- **Storage Recommendations:**
 - Store in a cool, dry area, off the ground, and away from water.
 - Boards should remain in protective packaging until installation.
 - Avoid stacking higher than 10 feet to prevent damage.
 - Cover with waterproof material if stored outdoors.

*For full instructions read our [storage and handling guide](#)

Testing and Compliance

*For full test results download the [combined testing sheet](#)

Fire Ratings:

- ASTM E84-24 (Flame Spread: 0, Smoke Developed: 0) by ICC ES. Meets IBC and IRC requirements.
- EN ISO 1716 and EN 13501-1+A1:2010, clause 12.

Structural and Durability Tests:

- EN 12467:2012+A2:2018 Section 5.4.3 (Moisture movement)
- EN 12467:2012+A2:2018 Section 5.4.4 (Flexural Strength under various conditions)
- EN 12467:2012+A2:2018 Section 5.4.5-6 (Water/water vapor permeability/impermeability)
- EN 12467:2012+A2:2018 Section 5.5.2 (Freeze-thaw)
- EN 12467:2012+A2:2018 Section 5.5.3 (Heat-rain)
- EU REACH Regulation (EC) No 1907/2006 Article 33(1) (Tested SVHCs in Chemical list)
- NIOSH 9002:1994 (Asbestos Content) (Results: Negative)

Code Compliance:

- All testing conducted by independent, accredited testing laboratories: Intertek, and ES ICC Evaluation Service.
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Warranty

MagPanel™ is backed by a [Limited Lifetime Warranty](#). For full terms and conditions, contact your authorized distributor or manufacturer representative.

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