

MgO Panel

Transforming the way you build

uniBoard[®]



The MgO Panel

Uni-board® MgO panels are high performance structural sheathing products for the construction industry. The company's MgO proven portfolio offers ultimate building versatility from walls, partitions and roofing, to tile backing, cladding, and flooring.
















- **Fireproof** (Class A1)
- **Environmentally sustainable**
- **Available** in a variety of types, sizes, thicknesses and edge cuts
- **Suitable** for internal and external use
- **Mineral-based** product, **re-enforced** with fiberglass layers
- **Optimal construction** solution for public, residential, commercial and institutional buildings

Uniquely Bonded Composition

- Uni-board® MgO panels are comprised of mineral components for a cleaner construction: Magnesium Oxide (MgO), Magnesium Chloride (MgCl₂), Perlite (SiO₂), cellulose materials, filler glass fiber mesh and non-woven fabric.
- Uni-board® MgO panels are produced at room temperature, with minimal raw materials and energy consumption throughout the manufacturing process.
- Uni-board® products are non-hazardous, containing no organic solvents, asbestos, oils, toxic components, heavy metals or salts that could cause contamination or result in environmental damage.

Superior Physical Characteristics

Uni-board® MgO panels comply with and exceed standards for:

 Fire resistance (Class A1)	 Insect resistance	 High impact strength
 Water resistance	 Mold mildew resistance	 Easy process
 Moisture resistance	 High sound insulation	 Exceptional bonding surface
 Frost resistance	 Light-weight	 Asbestos-free
 Non-toxic	 Eco-friendly	 Zero carbon footprint

Key Advantages

Uni-board® multi-attribute MgO panels are:

- Fire resistant (Class A1) building material
- Lighter, more flexible and stable than traditional sheeting systems
- Time and material saving – dramatically reducing construction costs
- Environmentally friendly, applying a sustainable production process with reduced CO₂ footprint
- Ideal for time, safety and health sensitive construction applications

Applications

Uni-board® MgO panels have been successfully applied in extensive construction projects worldwide including:

- High and low-rise commercial and residential buildings
- Government and educational institutions
- Hospitals and health-care facilities
- Recreational buildings and tourist resorts
- Cultural and community centers
- Rail, air and emergency services infrastructures
- Prefabricated and mobile home developments

Product Range

MgO Wall Panel

Uni-board® multi-purpose wall panels are available in standard sizes as well as handy custom formats for fire protection purposes.



Type:	REGULAR (R)	RE-ENFORCED (RE)
Application:	INTERIOR / EXTERIOR	
Thickness (mm):	3 4 6 8 9 10 12 15 18 20	
Size (mm):	1200 x 2400 1200 x 2500 1200 x 2600	
	1200 x 2800 1200 x 3000 1220 x 2440	
Edge cut:	SQUARE (SE) / TAPERED (TE) *	
Texture:	SMOOTH / ROUGH	

> Additional dimensions and thickness options available upon request

Standard Uni-board® MgO boards are square edged (SE) with smooth front-side finish and rough sanded texture on the reverse side.

Application ▼

Thickness (mm)	3	4	6	8	9	10	12	15	18	20
Ceiling			⊙	⊙	⊙	⊙	⊙			
Partition - Internal wall			⊙	⊙	⊙	⊙	⊙			
External wall				⊙	⊙	⊙	⊙	⊙	⊙	⊙
Surface	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙	⊙
Fire Door	⊙	⊙	⊙							

*



SQUARE (SE)



TAPERED (TE)

MgO Floor Panel

Offering an alternative solution to OSB or plywood-based construction materials, Uni-board® MgO Floor Panels set the industry standard for load capacity and consistent quality without laps, gaps or voids.



Type:	FLOOR (FL)
Application:	INTERIOR
Thickness (mm):	15 16 18 20
Size (mm):	1200 x 2400 1220 x 2440
Edge Cut:	SQUARE (SE) *
Texture:	SMOOTH / ROUGH

> Additional dimensions and thickness options available upon request

MgO Sidings

Optimizing construction time, MgO Sidings are easy to install and can be coated before or after installation (double coating) with optional acrylic paint. With high protection against fire, water and insect damage, MgO Sidings provide an ideal construction solution for wood cladding.



TS



WS

Type:	SIDING PATTERN TRIM (TS)	Type:	SIDING PATTERN WOOD (WS)
Application:	INTERIOR - EXTERIOR	Application:	INTERIOR - EXTERIOR
Thickness (mm):	9 10 12	Thickness (mm):	9 10 12
Size (mm):	190 x 3600 201 x 3600	Size (mm):	190 x 2440 225 x 2440
Edge cut:	SQUARE (SE) *	Edge cut:	SQUARE (SE) *

> Additional dimensions and thickness options available upon request

Easy Installation

Uni-board® MgO product installation does not require specialist tools. Used with standard nails or self-drilling screws, MgO panels can also easily be cut or trimmed by a diamond blade hand or electric power saw. Developed for accuracy and flexibility, MgO panels can be fixed to steel or timber frames.

* *Design engineers and certifiers are responsible to ensure that load bearing walls have been designed to resist all applied loads and that the elements of flooring design and construction comply with all applicable local authority building and construction regulations and standards.*

Quality Finish

Wall finishing: Paint, ceramic tile, wallpaper, stucco, laminate, stone, thin brick

Floor finishing: Tile, linoleum, carpet, laminate

* **PAINT:** *The use of a 'sealer coat', 'preparation undercoat' and "sanding" is strictly recommended prior to any application of paint. Always follow the paint manufacturer's recommendations for paint suitability, mixing instructions, and application.*

WET AREAS: *The waterproofing requirements of all relevant codes, standards and regulations must be met. Water proofing membranes according to manufacturer's specifications and application methods must be consulted and complied with.*

Comprehensive Standards Compliance

Fire resistance	EN 13501-1 :2007 + A1 2009 Fire classification of construction products and building elements Part 1: Classification using data from reaction to fire tests Class A1. Does not burn or emit smoke with an open fire.
Bending strength	EN 12467
Modulus of elasticity	EN 12467
Impact resistance	EN 14617-9:2005
Thermal conductivity	EN 12664
Water absorption	EN 12467
Water vapor permeability	EN 12572

Dimensional tolerances

Length	± 5 mm
Width	± 5mm
Thickness	± 10 %
Squareness	± 2 mm
Color	STANDARD: White - beige shades RE-ENFORCED: White - beige shades FLOOR: Grey

Value-driven

High performance

Customer-focused

uniBoard®

🏠 www.uni-board.com

✉ info@uni-board.com

Uni-board® is a registered trademark. Copyright © 2014. All rights reserved. Pictures cannot be copied without permission.

