

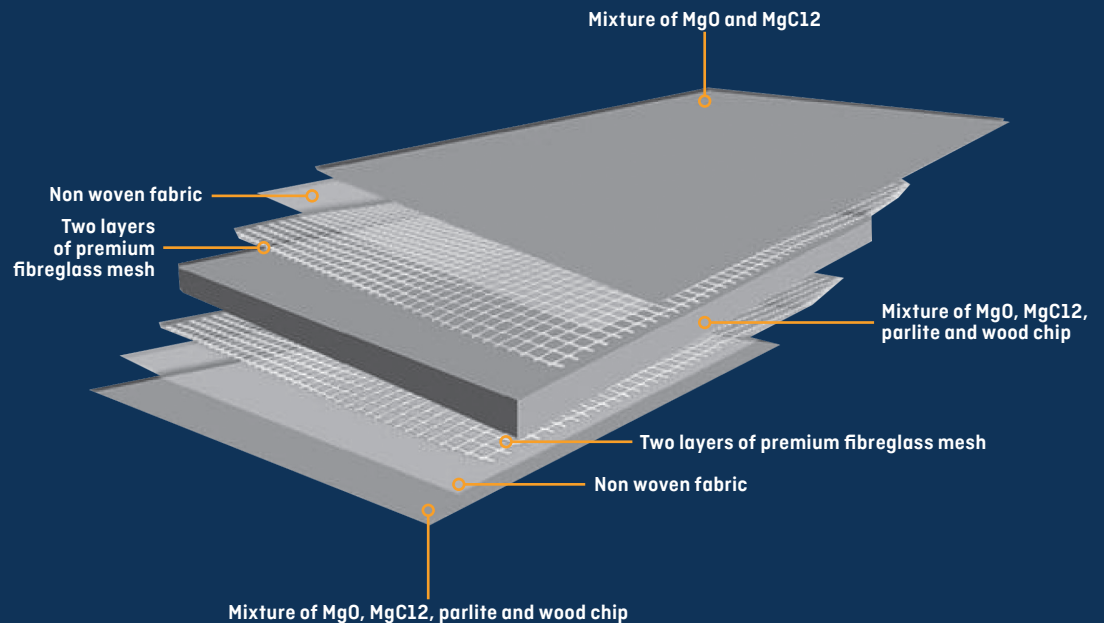


MAG BOARD

For Walls, Floors and Ceilings

Magnesium oxide board (also called mgo Board, magnum board, dragon board, MGO panels and so on) is a interesting building material, with properties that give advantages in many construction structures. MGO BOARD contributes to a more efficient, profitable, environmentally and health-friendly construction production. It has excellent fire and sound properties, sensitivity to moisture, very shock-resistant and produced entirely without environmentally and health-hazardous raw materials. This board is very easy to process, and can be advantageously cut and broken as a plasterboard.

TileRite MAG BOARD is mainly made of magnesium oxide, magnesium sulphate or magnesium chloride, perlite and wood fibre. As reinforcement, Mag Board is using the high quality alkaline glass fibre mesh in the boards. Production takes place through a process, where water is added to the material and the curing takes place naturally without heat supply or other processing. This production ensures minimal energy consumption and a very low impact on the environment.

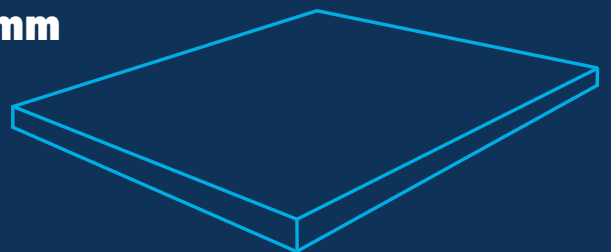


Specifications

Thicknesses: **6mm, 10mm, 12mm**

Sizes: **600mm x 1200mm**

Edge: **Square**





MAG BOARD

Superior Properties

- Fire resistant, it has a “zero” flame spread and smoke developed rating.
- Water resistant. When submerged completely in water for extended periods of time, it has no dimensional changes.
- Mould and mildew resistant.
- Saves on labour and material costs and therefore also saves on the overall time of projects.
- Made of a mineral product and will therefore reduce allergies and will be conducive to cleaner homes, offices and other environments.
- No chemicals in its formula and some of the ingredients are found in vitamins and minerals we take everyday.
- Good performance on acoustic.
- Good performance on thermal insulation.
- Eco-friendly and green building material.
- 100% recyclable.
- Good weatherability characteristics. It has been subject to some of the toughest testing being conducted on building materials today and has passed with good results.
- Quite stable. When subjected to temperature changes it does not expand or contract much.
- Impervious to insects including termites and sugar ants, as it is inedible.
- Easy-to-install product.
- Excellent strength characteristics.
- Non-toxic, free of carcinogens and contains no silica.



RECYCLABLE

FIRE
RESISTANT

SOUND PROOF

WEATHER
PROOFMOISTURE
RESISTANT

NON TOXIC

MOTH & INSECT
PROOFNAIL & FASTENER
SAFE

SAWABLE



DRILLABLE





MAG BOARD

Comparisons

Attributes	Mag Board	Gypsum Board	Plywood/OSB	Cement Board
Environmentally/Non-Toxic	Yes	No	No	No
Recyclable	Yes	No	No	No
Non-combustible	Yes	No	No	Yes
Water & Moisture Resistant	Yes	No	No	Yes
Mould & Mildew Free	Yes	No	No	Yes
Insect Resistant	Yes	No	No	Yes
Cut/Saw - No Special Tools	Yes	Yes	Yes	No
Wall Paper Over	Yes	Yes	No	No
Tile Backer	Yes	No	No	Yes
Insulation & Sound & Heat	Yes	No	No	Yes
Strong & Durable	Yes	No	Yes	Yes
Light Weight	Yes	Yes	No	No
Fastener Strength	Excellent	Poor	Excellent	Poor

Technical Data

Test & Performance Requirements	Test Standard	Test Results
Reaction to Fire	EN 13501-1+1+A1:2010	A1
Density (pcf)	ASTM C1185-08(2012)	59.74
Edge Straightness	ASTM C1185-08(2016)	Length: 0.6mm/m
		Width 0.8mm/m
Tensile Strength (mPa)	ETAG 016:2013	1.7
Tensile Modulus (mPa)	ETAG 016:2013	20.4
Linear Moisture Movement Lm (%)	EN 12467:2012	0.096
Nail Head Pull Through	ASTM D1037-12	1817 N
Moisture Movement	ASTM C1185-08(2016)	Linear change in length direction: 0.10%
		Linear change in width direction: 0.10%
Flexural Strength (psi)	ASTM C1185-08(2016)	Parallel: 3070
		Perp. : 2,941
Modulus of Elasticity (psi)	ASTM C1185-08(2016)	Parallel: 861250
		Perp. : 824662





MAG BOARD

Applications

In many applications, Mag Boards can be used in the same ways as gypsum and Portland cement sheathings. The substitution is not fully direct in terms of sheet thicknesses, fastening methods and joint treatments, but is very similar. This makes Mag Board an easy product to use. The possible uses of Mag Board are vast, and some of them include:

- In heat insulation as an exterior side coating
- In partition wall systems in interior locations (6-2mm)
- In construction of suspended ceilings (6-10mm)
- Raised floor construction (14mm and above)
- Used as roof sheathing panels (12-16mm)
- In construction of interior and exterior walls, floor and ceiling of light steel prefabricate buildings
- Fire protection of heavy steel buildings
- In construction of schools, hospitals, hotels, residences
- In construction of interior and exterior walls, floors, and ceiling of building site offices, hangars, mess, sleeping quarters
- In cold storages
- In furniture manufacturing (fireproof door, counter, cupboard, etc)
- As supporting element under flooring, over ground concrete

Installation

- Substrate must be clean, level and free of defects.
- Apply mortar to substrate with a 6mm notched trowel.
- Lay board over mortar bed rough side up; leave a 3mm gap between boards; press board fully into mortar bed.
- Stagger joints of board. Do not put board joint directly over substrate joint.
- Fasten to substrate with screws or nails. Do not fasten closer than 10mm to edge; fastener heads should be flush with surface of board, do not recess fastener head. Fastener spacing is 200mm in both directions.
- Apply fibreglass cement board tape over joints; apply latex modified adhesive over tape, filling all joints fully.
- Allow to dry, apply tile with latex modified adhesive or porcelain tile adhesive according to the tile manufacturer's instructions. Do not use ceramic tile adhesive.
- Use the correct fastener type. Type S Steel Studs, minimum length 48mm - Type W Wood Studs, minimum length 64mm

Tile Rite

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