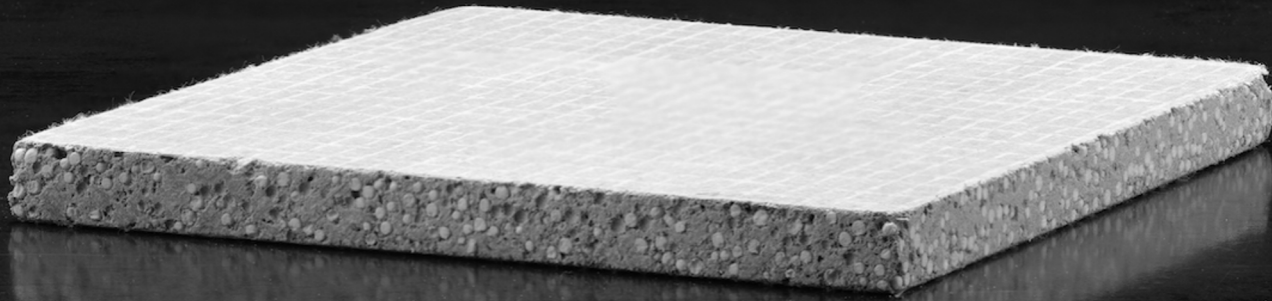


# TECHNICAL DATASHEET



## AQUAMAG<sup>®</sup>

### Magnesium (MgO) Lite Board

[www.aquamag.ae](http://www.aquamag.ae)



#### AQUA BOARDS BUILDING MATERIALS FZ-LLC

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## Description

Aquamag® Mgo Lite Board is a light weight ESP bonded magnesium oxide board which comes in white and grey color options. These boards are multi-purpose highly durable non-combustible board for use in applications requiring a combination of moisture and thermal resistance as well as superior performance in fire. It is an ideal substrate for exterior walls, interior partitions, tile backing for wet and humid areas, floor underlayment, fire rated door core, internal and external ceiling, soffit, structural insulated panels and exterior finishing systems EIFS/ETICS. Aquamag® Mgo Lite Board is one of the lightest cement board in the market making it easy to use on site.

## Characteristics

- Light weight multi-purpose board
- Suitable for wet areas
- Ideal tile backer board
- Non combustible A1 EN13501
- 2 hour fire ratings
- Zero chloride content
- Lighter than fiber cement boards
- Easy to cut, screw and install on steel and timber frames

## Application

- Internal Partitions
- Backer Board for the Wet Areas
- External Sheathing Behind Rain Screen Systems
- External Render Carrier Board.

## Available Colors

- White / Grey

## Sizes and Packaging

Size (mm)	Thickness (mm)	Horizontal Pallet (no. of boards)	Vertical Pallet (no. of boards)	20ft Container (no. of boards)
1200x2400	06	120	150	1080
1200x2400	09	80	100	720
1200x2400	12	60	75	540
1200x2400	18	40	50	360
1200x2700	06	120	150	1080
1200x2700	09	80	100	720
1200x2700	12	60	75	540
1200x2700	18	40	50	360
1200x3050	06	115	145	520
1200x3050	09	75	95	340
1200x3050	12	55	75	260
1200x3050	18	38	48	172

## Loading and Unloading Boards

Aquamag® Mgo Lite Board boards are supplied on pallets suitable for fork lift unloading by fork lift. If off-loading by crane and slings is envisaged, care should be taken to avoid damaging the edges of the boards. All pallets and crates can be safely handled by using a fork lift or hoisting equipment and straps. Steel cables or chains should not be used as they will damage both the pallet and the boards.

Where crates are removed from a box container, care should be taken not to subject crates and pallets to any impact shock, as this could result in cracking of the boards. Always drive the delivery vehicle as close as possible to where the boards are to be used. When transporting the boards, it is essential to secure the pallets to prevent sliding. If the boards are subsequently moved around the site, they should be placed on a rigid base suitable for lifting by forklift. Aquamag® Mgo Lite Board boards should always be stored on a rigid base.

## Storage

All Aquamag® Mgo Lite Board boards are supplied with a protective plastic sheet wrap. This protection should not be removed until the boards are ready for use. In general, the following steps should be taken to ensure that the boards remain in good condition during storage. All Aquamag® Mgo Lite Board boards should be stored on covered and dry level ground, away from the working area or mechanical plant.

Pallets should be stored safely on firm level ground. If two or more pallets are stacked, the following guidance as well as local legislation and regulations must be observed. The number of pallets per stack is mainly determined by site conditions such as ground conditions, flatness and load capacity of the ground.

Maximum number of pallets stacked one above the other under warehouse conditions: All boards – maximum 5 pallets, recommended < 4 pallets. All boards must be protected from inclement weather. Cover protection is essential for stacked boards. All boards must be stored under cover. Complete protection for stacked and covered boards in storage.

## Technical properties

Property	Testing Standard	Result
Reaction to fire	EN 13501-1	Class A1 (Non-Combustible)
Dimensions (length x width x thickness)		1200mm x 2400mm x 12mm
Tolerance on length and width	EN 12467:2012	Length Tolerance: 0 mm Width Tolerance: 0 mm Complied with Level I
Tolerance on thickness	EN 12467:2012	Thickness: Average: 12.51mm Tolerance: 0.51mm Max. Deviation within one sheet: 0.32%
Straightness of edges	EN 12467:2012	Max.: 0.02% Complied with Level I
Squareness of edges	EN 12467:2012	Max.: 0.21mm/m Complied with Level I
Apparent density	EN 12467:2012	669 kg/m <sup>3</sup>
Moisture movement	EN 12467:2012	Length direction: 0.13% Width direction: 0.15%
Bending strength (MOR)	EN 12467:2012	Wet condition: Average 10.3 MPa Min. 9.5 Mpa Class 2
Water impermeability	EN 12467:2012	No formation of drops of water
Water vapour permeability	EN ISO 12572, Condition C	Water vapour resistance value $\mu$ : 19.1
Freeze-thaw (100 Cycles)	EN 12467:2012	Category A, Ratio RL: 0.62
Heat-rain (50 Cycles)	EN 12467:2012	Category A, No visible cracks, delamination, warping and bowing or other defects.
Soak-dry	EN 12467:2012	Category A, Ratio RL: 0.34
Release of dangerous substances	EN 12467:2012	Asbestos content: Negative Meet the requirement of EU REACH Regulation SVHC exceeds 0.1% (w/w)
Average Screw pull out	BS EN 14566: 2008 & A1: 2009	978 N
Average Screw pull through	BS EN 14566: 2008 & A1: 2009	1216 N
Moisture content (at 90±2°C)	EN 318 / ASTM C 1185 Section 10	8.5 %
Chloride ion determination	ASTM C 871-11	0.019%
Smoke development index (SDI)	ASTM E84-18, UL 723-10	25 (CLASS A)
Flame development index (FDI)	ASTM E84-18, UL 723-10	0 (CLASS A)
Crying test – BBA	BS EN T164176	Pass (170 days at Temp 30°C Humidity 94%)
Mould growth	MOAT 33	Zero growth in 42 days incubation