

## SINH™ board Technical datasheet 12 mm SINH™ board

### Product Description

SINH™ board is an innovative, multi-purpose constructive board based on magnesium oxide, reinforced with multiple layers of glass fibre mesh. SINH™ board is highly durable, incombustible (fire rated Class A1), lightweight, energy efficient, sound isolating, weather proof, impact resistant and above all easy to install, which saves time and labor.

### Fields of applications

Our SINH™ board sheets are available in various lengths, widths and thicknesses. They can be used for limitless indoor and outdoor applications for commercial and non-commercial purposes. For example, SINH™ boards are easily utilized in the construction of: false ceilings, rooftop construction, roofing underlayment, wall cladding, duct covers, drywall partitions, prefab construction, interior design.

### Storage

Should be stored on flat surface, in a dry, covered and well ventilated area.

### Disposal

Magnesium Oxide Boards are non a hazardous waste. Treat any collective dust as construction industry waste in accordance with local legislations

### Tolerance

<b>Length</b>	± 8 mm
<b>Width</b>	± 0,5% a mm
<b>Thickness</b>	± 10% a mm

### Availability

<b>Dimensions</b>	2400 x 1200 mm	2400 x 900 mm
	2700 x 1200 mm	2700 x 900 mm
	3000 x 1200 mm	3000 x 900 mm

**Colour** white (standard). Other colours on request

**Surface** front side: smooth  
back side: non-sanded or sanded

**Weight** 11.70 kg/m<sup>2</sup> for **12 mm** SINH™ board



### Product performance

Criterion	Value
Density	975 kg/m <sup>3</sup> ±2,5%
Construction material fire class	A1
Moisture content	18.1 % (20 °C, 65% RH)
Thermal conductivity	0.231 W/(m·K)
Bending strength	20.67 N/mm <sup>2</sup>
Modulus of elasticity	4317 N/mm <sup>2</sup>
Tensile strength	2.80 N/mm <sup>2</sup> (parallel to the plane)
Compressive strength	10.06 N/mm <sup>2</sup>
Resistance to nail head pull-through	348.7 N

### Product performance tests

Test type	In accordance to	Clause
Fire safety (60min. fire resistant)	EN 1364-1:2015	
Flexural strength	ETAG 018-4, EN 12467	clause 5.2.4 clause 7.3.2
Tensile strength (perpendicular to the plane of the board)	EN 326-1, EN 319	
Tensile strength (parallel to the plane of the board)	ETAG 018-4, EN 789	clause 9
Compressive strength	ETAG 018, EN 789	clause 8

**Note:** All physical and mechanical values are averages, based on standard production and tested according to the European directives that apply in the areas of safety, health and the environment. If you need more information about specific product values, please consult SINH Building Solutions.

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