



## MEZZANINE

TECHNICAL SPECIFICATIONS

## Description

Superboard® Mezzanine is a cement board resistant to moisture and impact that allows a wide variety of applications with greater constructive speed, little weight and cleanliness in the work.

It is composed of a homogeneous mixture of cement, organic reinforcements and natural aggregates, manufactured under high quality standards through an autoclave process, where the plate is subjected to high pressure, temperature and humidity, obtaining a plate of great dimensional stability and high mechanical resistance.

## Characteristics

Board of high thickness ideal for mezzanine applications with rigid or flexible finishes.

## Presentations and Uses



- Specially designed for mezzanines with rigid finishes that have a layer of mortar and mesh that increases the resistance.
- No transformation processes on its edges or surface.

Calibrated in thickness and rectified dimensions, ideal to receive flexible finishes such as mat, vinyl or laminates, in homes, offices and where live loads are less than 200 kg / m<sup>2</sup>

Thickness mm	Measures m	Weight* Kg/m	Recommended Usage
14	1.22 x 2.44 1.22 x 3.05	57.40 77.00	Mezzanines with rigid or flexible finishes, bases 14 for roofs, terraces and passable roofs.
17	1.22 x 2.44 1.22 x 3.05	73.00 93.00	Mezzanines with rigid or flexible finishes, terraces and passable decks.
20	1.22 x 2.44 1.22 x 3.05	85.80 110.00	Mezzanines with rigid or flexible finishes, terraces and passable decks.

\* Registered weights are average values; they may vary depending of thickness and moisture of the product.

## Benefits

- High mechanical strength for mezzanines with finishes rigid or flexible.
- Resistant to moisture and impact.
- Easy to work.
- Greater mechanical resistance.
- Easily supports any finish.
- Does not spread the flame or generate smoke.
- Dimensionally stable. It does not deform.
- Resistant to bending.
- Resistant to pests and rodents.

## Technical Characteristics

Property	Value*	Unit of Measure	Test
Absorption	32	%	NTC 4373
Density (Oven dried)	1.25	kg/dm <sup>3</sup>	NTC 4373
Moisture content	10	%	NTC 4373
Water movements:			
Dilatations with humidity variation from 30% to 90% - strong side	0.53	mm/m	ISO 8336
Dilatations with humidity variation from 30% to 90% - weak side	0,41		
Contractions with humidity variation from 90% to 30% - strong side	0,35		
Contractions with humidity variation from 90% to 30% - weak side	0,35		
Thermal movements (constant humidity at 30%)			
With variation from 10°C to 40°C - Strong side	1,23	mm/m	ISO 8336
With variation from 10°C to 40°C - Weak side	0,12		
Module of elasticity (E)			
Dry - Weak side	6.044	MPa	ISO 8338
Dry - Strong side	7.902		
Saturated - Weak side	4.009		
Saturated - Strong Side	5.769		
Flexural Strength (MOR):			
Environment dry – Weak side	8,0	MPa	NTC 4373
Environment dry - Strong side	15,0		
Saturated - Weak side	5,5		
Saturated - Strong side	9,5		
Thermal conductivity	0.263	W/mK	ASTM D1037
Nail tensile resistance			
Wet	32	Kg	ASTM D1037
Dry	64,7		
Tensile strength			
Parallel to plane, air dry - Strong side	5,18	MPa	ISO 8338
Parallel to plane, air dry - Weak side	3,47		
Parallel to the plane, 95% humidity - Strong side	4,37		
Parallel to the plane, 95% humidity - Weak side	2,42		
Perpendicular to the plane, dried in the oven	0,68		
Shear resistance			
Perpendicular to the plane, dried in the oven- Strong side	8,4	MPa	ISO 8338
Perpendicular to the plane, dried in the oven- Weak side	5,3		
Parallel to the plane, dried in the oven - Strong side	1,57		
Parallel to the plane, dried in the oven - Weak side	1,53		
Impact Resistance (Charpy)			
Oven Dry, Strong Side	1,7	MPa	ASTM D256
Oven Dry, Weak Side	1,25		
Fire Expansion Index	0		ASTM E84
Smoke Spread Index	0		ASTM E84

\* Average values: MPa = Megapascals KJ = Kilojoules W = Watts K = Degrees Kel

## Tolerance

Length and Width (L)	Thickness (T)
L ≤ 1000mm: +6- 5mm 1000mm < L < 1600mm: + 6 - 0.5% L > 1600mm: + 6 - 8mm	E ≤ 6mm: + 6 - 0.6mm E > 6mm: + 6 - 10%

## Certification and Tests

Superboard® boards are manufactured in compliance with the type tests of the Colombian Technical Standard ICONTEC NTC 4373 "Civil Engineering and Architecture, Flat plates of asbestos cement". Superboard Boards are type B material.

### Other applicable regulations and tests

International Standard Iso 8336 "Fibre-Cement Flat Sheets"

ASTM C 1185 "The tests were performed in Conformity with ASTM C 1185-08 "Standard test Methods for sampling and board testing of asbestos-free fiber cement, roofing materials and cladding tiles and slats" in compliance with ASTM C 1186-08 "Specification standard for flat fiber cement panels" type B.

Superboard Boards were tested under ASTM E 84 "Standard Test Method for Surface Burning Characteristics of Building Materials" with the following Outcome:

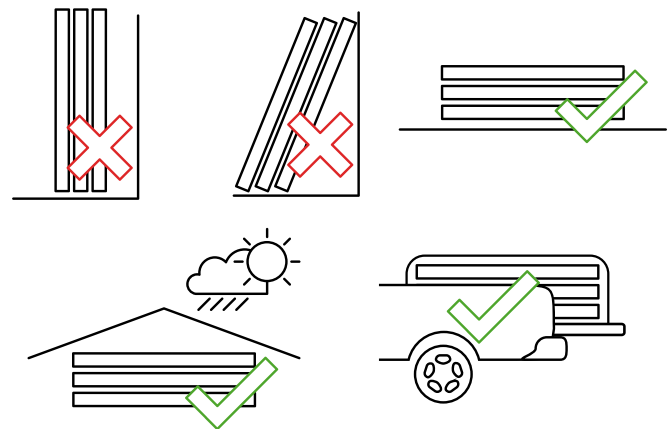
**Smoke Generation Index = 0**  
**Flame Spread Index = 0**

Superboard Boards were tested under ASTM D 3273 "Determination of Susceptibility of Building Panels to Fungal Growth." Determination of susceptibility to fungi growth in construction panels.

IDIEM CHILE tests. They were made under the ASTM standard E 119-00 "Standard Test Methods for Fire Tests of Building Construction and Materials."

## Storage

They must be stored indoors in dry and ventilated spaces, on a clean and flat surface in horizontal position, in 800mm packages separated from each other using wooden slats and overlapping maximum 4 packages.



## Security Instructions

Consult safety data sheet.

## Installation Instructions

Contact the technical assistance department.



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