

STANDARD

TECHNICAL SPECIFICATIONS



Description

Superboard® Standard is a cement board resistant to moisture and impact that allows a variety of applications with greater construction speed, low weight and Cleaning on site.

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 large plate dimensional stability and high mechanical resistance.

Characteristics

Board without transformation processes in its edges or surface, ideal for applications that do not require high levels of finish.

Presentations and Uses

Thickness mm	Measures m	Weight* Kg/m	Recommended Usage
4	1.22 x 2.44	16.40	Nailed Ceilings
6	1.22 x 2.44 1.22 x 3.05	24.60 33.00	Screwed ceilings, interior cladding, curved walls
8	1.22 x 2.44 1.22 x 3.05	32.80 44.00	Internal walls, eaves, screwed ceilings, sanitary booths, ducts
10	1.22 x 2.44 1.22 x 3.05	42.00 55.00	Interior and exterior walls, roof bases
11	1.22 x 2.44 1.22 x 3.05	47.05 60.60	Interior and exterior walls, roof bases

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

Benefits

- Wide range of thicknesses and applications.
- Resistant to moisture and impact.
- Easy to work.
- Easily supports any finish.
- Does not spread flames 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 ³	NTC 4373
Moisture content	10	%	NTC 4373
Water movements:			
Air dry or saturated stretch	0.55	mm/m	ASTM D1037
Oven dry saturated shrinkage	2.39		
Thermal movements:			
Shrinkage from 105°C to 25°C	6.5×10^{-6}	m/m °C	ASTM D1037
Module of elasticity (E)			
Longitudinal dry	6.044	MPa	ASTM D1037
Cross dry	7.902		
Longitudinal saturation	4.009		
Cross saturation	5.769		
Flexural Strength (MOR):			
Longitudinal environment dry	8.0	MPa	NTC 4373
Transverse environment dry	15.0		
Longitudinal saturation	5.5		
Cross saturation	9.5		
Thermal conductivity	0.263	W/mK	ASTM D1037
Tensile strength of the nail			
Wet	1.56	KJ/m ²	ASTM D256
Dry	2.86		
Flame Expansion Index	0		ASTM E84
Smoke Spread Index	0		ASTM E84

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

Tolerances

The following tolerances must be found with an average of several measurements on the same board according to the NTC 4373.

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

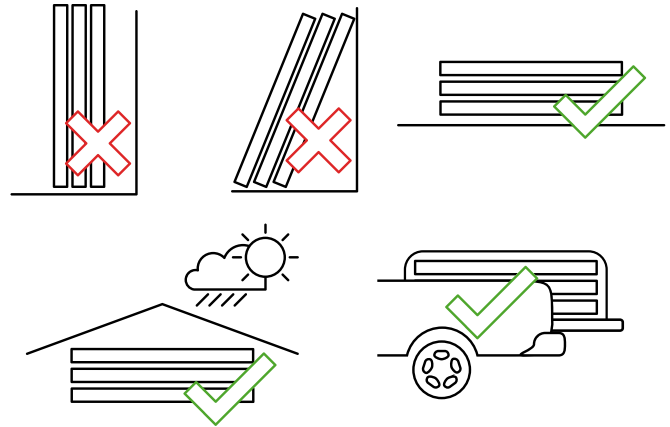
Smoke Generation Index = 0
Flame Spread Index = 0

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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