

# SIDING

TECHNICAL SPECIFICATIONS





# Description

Superboard® Siding 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 a process autoclave, where the plate is subjected to high pressure, temperature and humidity, obtaining a large plate dimensional stability and high mechanical resistance.

**Presentations and Uses** 

Superboard® Siding



# Characteristics

Board in a 20 cm wide format with wood or smooth texture, designed for facades, interior walls and masonry traditional coating, where speed and high aesthetic value are required.

#### Superboard® Siding Wood

<b>Thickness</b>	<b>Measures</b>	<b>Weight</b>	Recommended Usage
mm	m	Kg/m	
6	0.20 × 2.44	4,10	Interior walls, facades, baseboards,
	0,20 × 3.05	5,50	borders.
8	0,20 × 2.44	5,50	Interior walls, facades, baseboards,
	0,20 × 3.05	7,30	borders, ceilings, coatings.
10	0,20 × 2.44	7,00	Interior walls, facades, baseboards,
	0,20 × 3.05	9,16	borders, ceilings, coatings.

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

# Benefits

- Wide range of thicknesses and applications.
- Resistant to moisture and impact.
- Easy to work.
- Sily 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**

<b>P</b> roperty	Value*	Unit of Measure	Test
Absorption Density (Oven dried)	32 1.25	% kg/dm³	NTC 4373 NTC 4373
Moisture content	10	%	NTC 4373
Water movements: Dilatations with humidity variation from 30% to 90% - strong side Dilatations with humidity variation from 30% to 90% - weak side Contractions with humidity variation from 90% to 30% - strong side Contractions with humidity variation from 90% to 30% - weak side	0.53 0,41 0,35 0,35	mm/m	ISO 8336
Thermal movements (constant humidity at 30%) With variation from 10°C to 40°C - Strong side With variation from 10°C to 40°C - Weak side	1,23 0,12	mm/m	ISO 8336
Module of elasticity (E) Dry - Weak side Dry - Strong side Saturated - Weak side Saturated - Strong Side	6.044 7.902 4.009 5.769	MPa	ISO 8338
Flexural Strength (MOR): Environment dry – Weak side Environment dry - Strong side Saturated - Weak side Saturated - Strong side	8.0 15.0 5.5 9.5	MPa	NTC 4373
Thermal conductivity	0.263	W/mK	ASTM D1037
Nail tensile resistance Wet Dry	32 64,7	Kg	ASTM D1037
Tensile strength Parallel to plane, air dry - Strong side Parallel to plane, air dry - Weak side Parallel to the plane, 95% humidity - Strong side Parallel to the plane, 95% humidity - Weak side Perpendicular to the plane, dried in the oven	5,18 3,47 4,37 2,42 0,68	MPa	ISO 8338
Shear resistance Perpendicular to the plane, dried in the oven- Strong side Perpendicular to the plane, dried in the oven- Weak side Parallel to the plane, dried in the oven - Strong side Parallel to the plane, dried in the oven - Weak side	8,4 5,3 1,57 1,53	MPa	ISO 8338
Impact Resistance (Charpy) Oven Dry, Strong Side Oven Dry, Weak Side	I, 7 I,25	MPa	ASTM D256
Fire Expansion Index Smoke Spread Index	0 0		ASTM E84 ASTM E84

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



#### Tolerance

Length and Width (L)	Thickness (T)
L <= 1000mm: +ó- 5mm	E <= 6mm: + ó - 0.6mm
1000mm < L < 1600mm: + ó – 0.5%	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 Tes.

#### 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.



# **Urity Instructions**

Consult safety data sheet.

#### linstallation Instructions

Contact the technical assistance department.



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