

It's main components are cement, silica and natural fibers, which go through a curing process under high pressure and temperature in the autoclave, allowing the development of unique properties like dimensional stability and deflection resistance.



CHARACTERISTICS

- Resistance: Good performance under heavy weight, impact resistant.
- Dimensional stability: Low dimensional changes under humidity and temperature fluctuations, which provides great performance during weather changes once installed.
- Durability: It's structure remains constant through time. Resistance to mold, insects and rodents.
- Resistance to humidity: It does not rot or rust.
- Fire resistance: It's components delay fire dispersion and do not produce smoke, allowing effective evacuation if necessary.
- Lightness: Low weight per square meter, which contributes to Reduction of sedimentation costs.
- Homogeneous thickness.
- Allows building of systems that require thermal and acoustic insulation.
- Standard measures that reduce waste.

CHARACTERISTICS

Sizes			Uses and applications
Thickness MM	Weight Kg	Size M	
4	4.41	0.61 x 1.22	Removable ceilings in metal frames
4	16.62	1.22 x 2.44	Ceilings
6	26.43	1.22 x 2.44	Ceilings framed by aluminum profiles . Max 1.20 x 60 formats
8	35.25	1.22 x 2.44	Drywall type system , interior walls
10	44.06	1.22 x 2.44	Drywall type system , interior walls and exterior
11	48.46	1.22 x 2.44	Drywall type system , interior walls and exterior
14	61.68	1.22 x 2.44	Exterior walls, ceilings and mezzanines bases
17	74.90	1.22 x 2.44	Mezzanines
20	88.11	1.22 x 2.44	Mezzanines

PROPERTIES

PROPERTY	STANDARD	UNIT	VALUE
Length and Width	NTC 4373	mm	Nominal \pm 5 mm
Thickness	NTC 4373	mm	Nominal \pm 0,5 mm
MECHANICAL PROPERTIES			
Flexural strength (MOR):			
- Parallel to Surface Saturated	NTC 4373 (Category 3) ASTM C-1185	MPa	11
- Perpendicular to Surface Saturated			6
- Dry to Parallel to Surface ambient			15,5
- Dry to Perpendicular to Surface ambient			9
Modulus of elasticity (E):			
- Parallel to Surface Saturated	ASTM C-1185	N/mm ²	1000
- Perpendicular to Surface Saturated			3500
- Dry to Parallel to Surface ambient			1800
- Dry to Perpendicular to Surface ambient			3500
Charpy Impact Resistance:			
Flat Sheets 8mm	ISO 179- 1FA	Kj/m ²	
- Parallel to Surface			3,69
- Perpendicular to Surface			2,33
Flat Sheets 10 mm			
- Parallel to Surface			3,71
- Perpendicular to Surface			2,64
Shear strength of plastics by punch tool	ASTM D-732	N/mm ²	17
Screw Withdrawal load	ASTM D-1037	N	1600
PHYSICAL PROPERTIES			
Moisture content	ASTM C-1185	%	8
Density	ASTM C-1185	g/cm ³	1,25
Water Absorption	ASTM C-1185	%	33
Thermal conductivity	ASTM C-177	W/(m-K)	0,289
Dimensional changes			
Dry Oven (100°C/24 h).		mm/m	
Saturated (Water 24 h).			
Ambient - Dry Oven			1,6
Saturated - Dry Oven			2,2
It does not spread flames			

*Average values