

Dimensions and tolerances

Thickness	Standard dimensions	Board weights (approximate)
12.7mm	1200 x 2500mm	34kg
15mm	1200 x 2500mm	41kg
18mm	1200 x 2500mm	49kg
20mm	1200 x 2500mm	55kg
25mm	1200 x 2500mm	68kg
Board tolerances		
	thickness	+/- 0.7mm
	length and width	+0 / -5mm
	squareness	2.5mm/m

Physical properties

Minimum apparent density (EN 12467 - § 7.3.1)		910 (+/- 5%) Kg/m ³
Bending strength (EN 12467-§7.3.2)		
	longitudinal	> 12 MPa (12.7mm) > 6 MPa (25mm)
	Transversal	> 8 MPa (12.7mm) > 5 MPa (25mm)
Tensile resistance (EN 789 - §9)		
	longitudinal	> 3 MPa (12.7mm) > 1.5 MPa (25mm)
	Transversal	> 2 MPa (12.7mm) > 1 MPa (25mm)
Compressive strength (EN 789 - §8)		
	longitudinal	> 8 MPa (12.7mm) > 7 MPa (25mm)
	Transversal	> 7 MPa (12.7mm) > 6 MPa (25mm)
Modulus of elasticity (EN 12467-§7.3.2)		
	longitudinal	> 2000MPa
	Transversal	> 2000MPa
Fire reaction classification (EN 13501-1)		A1
Durability, freeze-thaw (EN12467)		passed (25 cycles), RL = 0.95
Dimensional stability (EN 318), length:		
	65%RH 20°C to 85%RH 20°C	0.2mm/m
	65%RH 20°C to 30%RH 20°C	-0.4mm/m
Dimensional stability (EN 318), thickness:		
	65%RH 20°C to 85%RH 20°C	0.1mm/m
	65%RH 20°C to 30%RH 20°C	-0.3mm/m
Thermal conductivity coefficient, λ		0.21W/mK

Description

PROMATECT®-XS is an innovative high performing fire protective board, specifically designed for the fire protection of steel elements such as columns, beams and hollow sections, when high fire protection performance is required.

PROMATECT®-XS is a non-combustible product, based on a unique proven technology, which contributes to the fire rating of steel structures, tested according to the most severe international standards. The degree of fire protection depends on mass factor (S/V) and the critical design temperature. This in turn dictates the thickness of PROMATECT®-XS.

PROMATECT®-XS is strong, highly moisture resistant, non-combustible and has improved workability compared to traditional steel encasement products.

Application

Fire protection of structural steel beams and columns up to R240, for critical temperature from 350°C to 750°C, for massivity up to 290m⁻¹.

Appearance

PROMATECT®-XS exhibits smooth surface finish on the front and back sides. The core of the board is light blue coloured whereas the front and back surfaces are off-white coloured.

The boards is printed on its back side. The board exhibits square edges on its longitudinal and transversal sides.

Composition

PROMATECT®-XS is made of aerated calcium sulfate di-hydrate, reinforcing glass fibres, functional additives and water. The core is reinforced by glass-mat facers on the front and back sides of the boards. The board contains a water resistant additive and a biocide to inhibit mould growth.

Compliance authority

The board is CE marked according to **ETA XXXXXX** based on EAD 350142-00-1106 (Fire Protective Board, Slab and Mat Products And Kits) for the following use categories: Z2 - internal use, Y - external use semi-exposed.

General processing instructions, handling, cutting and fixing

Storage
Store on flat surface, in a dry area.

Handling:

- The boards are delivered on pallets.
- The boards shall be horizontally stacked on a flat surface in a dry and ventilated space.
- The boards shall always be manipulated from the stack by two persons and then be transported vertically.

Installation

The board can be installed as fire encasement by direct stapling with **soldiers**, without the need of metallic clips and substructures.

Health & safety

Please refer to the PROMATECT®-XS material and safety datasheet.