

Promat



Applications

- Cladding and infill panel
- Rainscreen cladding
- Sheathing
- Non-combustible external board



Promat PROMATECT®-HD

Compressed, Dense Building Board for External Use

GENERAL DESCRIPTION

Promat PROMATECT®-HD is compressed to form a dense building board which is suitable for external use and can withstand impact and abrasion.

Promat PROMATECT®-HD is manufactured from a homogeneous mixture of Portland cement, organic fibres and selected mineral fillers and autoclaved resulting in a product with high dimensional stability and high strength.

Board Format Data				
Thickness (mm)	Length x Width (mm)	Approx. Weight (kg/m ²)		Boards per Pallet
		Dry	With Approx. 6% Moisture	
4.5	2440 x 1220	5.9	6.3	120
6	2440 x 1220	7.8	8.3	70
9	2440 x 1220	11.7	12.4	48
12	2440 x 1220	15.6	16.5	30

NOTE: 6mm and 9mm Promat PROMATECT®-HD are stock items. 4.5mm and 12mm boards are available upon request dependent on order quantity.

General Technical Data	
Designation	Calcium silicate
Material class	Non-combustible
Surface spread of flame	Class 1
Building Regulations classification	Class 0
Nominal dry density (average) Kg/m ³	1300
Alkalinity (approximately) pH	11
Thermal conductivity (approximately) at 20°C W/mK	0.35
Coefficient of expansion (20-100°C) m/mK	6 x 10 ⁻⁶
Nominal moisture content, ambient %	6
Moisture movement (ambient to saturated) %	0.06
Thickness tolerance of standard boards mm	± 0.4
Length x width tolerance of standard boards mm	± 2.0
Surface condition	Front face: Smooth, Sanded Back face: Smooth, Sanded

NOTE: All physical property values are averages based on standard production. The figures can change dependent on the test methods used. If a particular value is of prime importance for a specification requirement, please contact Promat Technical Services Department.



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Typical Mechanical Properties			
Flexural Strength $F_{rupture}$	Average, dry	N/mm ²	10.5
Nominal Weight	Average, dry	N/mm ²	8500

Allowable Radius of Curvature		
Thickness (mm)	Minimum bending radius, R (m)	
	Lengthways	Widthways
4.5	3.24	3.35
6	4.32	4.46
9	6.48	6.70
12	8.64	8.93

NOTE: All physical property values are averages based on standard production. The figures can change dependent on the test methods used. If a particular value is of prime importance for a specification requirement, please contact Promat Technical Services Department.

HANDLING

Promat PROMATECT®-HD is supplied on pallets suitable for forklift unloading.

STORAGE

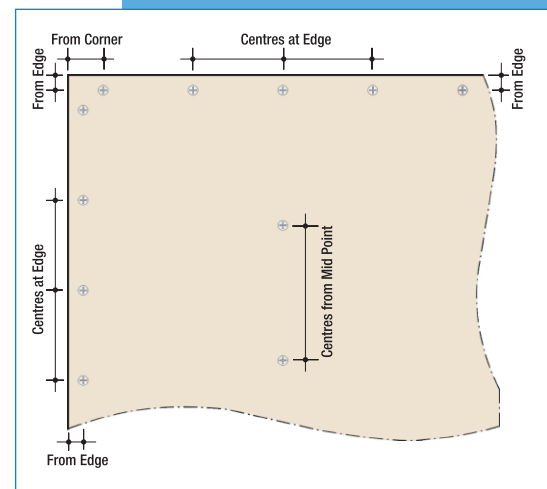
Promat PROMATECT®-HD should be stored flat, in the dry, clear of the ground and well protected from weather and other trades. The pallet packaging should not be regarded as sufficient protection for storage in the open.

All boards should be stored on pallets. The loose storage of Promat PROMATECT®-HD sheets on their edge is not recommended.

FIXING

Fixing Guide (use with drawing opposite)				
	From Edge Minimum (mm)	From Corner Minimum (mm)	Centres at Edge Maximum (mm)	Centres from Mid Point Maximum (mm)
Screws	12	50	300	300
Nails	12	50	200	200

Support Centres: Promat PROMATECT®-HD is normally supported at 600mm centres. If additional impact or wind load resistance is required, consideration should be given to reducing fixing centres to 400mm or 300mm.





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SAFETY SHEET

A safety data sheet is available from Promat Technical Services Department and, as with any other materials, should be read before working with the board. The board is not classified as a dangerous substance and so no special provisions are required regarding the carriage and disposal of the product to landfill. They can be placed in an on-site skip with other general building waste which should be disposed of by a registered contractor.

WORKABILITY

Promat PROMATECT®-HD can be cut and installed using standard wood working tools and equipment. Sheets can be hand cut using a sheet saw with hardened steel teeth. Sheets greater than 6mm thick may be cut more easily using a power saw with tungsten carbide tipped blades or a jigsaw.

Drilling can be carried out either by hand operation or power drills with high speed drill bits.

The edges of the boards can be planed, bevelled etc, using rasps or surform.

Nails can be driven directly through Promat PROMATECT®-HD without pre-drilling provided they are at least 12mm from the edge of the board, and the back face of the board is fully supported. In areas of high humidity, galvanised nails should be used. Panel pins, oval or lost head nails should not be used. Nails should be located 50mm from corners.

TECHNICAL INFORMATION

For additional details of product properties and application please contact Promat Technical Services Department on Telephone: 01344 381400 Fax: 01344 381401.

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Promat UK Limited

The Sterling Centre, Eastern Road, Bracknell, Berkshire RG12 2TD

Telephone: 01344 381300 Fax: 01344 381301

www.promat.co.uk

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