

Promat



Uniclass L661:P21	EPIC F5212
CI/SfB	
Rf	

May 2006

PROMATECT®-HD

Compressed dense building board for external use

GENERAL DESCRIPTION

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

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

APPLICATIONS

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

Typical Mechanical Properties

Flexural strength $F_{rupture}$	Average, dry	N/mm ²	10.5
Modulus of elasticity E	Average, dry	N/mm ²	8500



Board Format Data

Thickness (mm)	Length x Width (mm)	Approx.Weight (kg/m ²)		Boards per pallet
		Dry	With approx. 6% moisture	
4.5	2400 x 1200	5.9	6.3	120
6	2400 x 1200	7.8	8.3	90
9	2400 x 1200	11.7	12.4	61
12	2400 x 1200	15.6	16.5	46

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

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

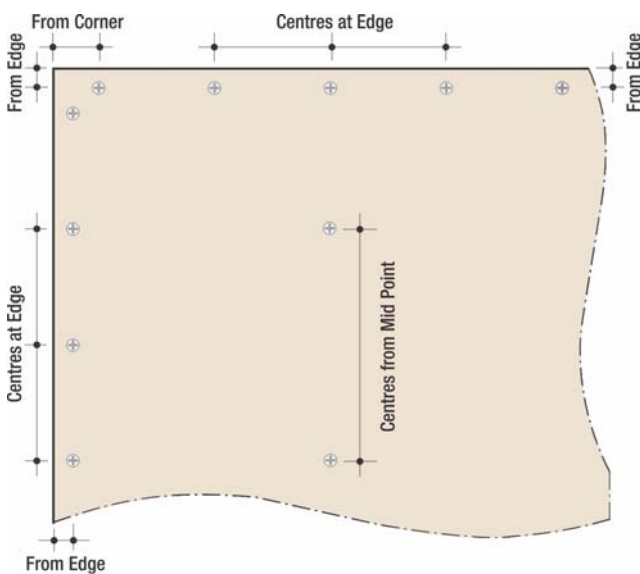
PROMATECT®-HD is supplied on pallets suitable for forklift unloading.

STORAGE

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 PROMATECT®-HD sheets on their edge is not recommended.

FIXING



Fixing guide as below, used with above drawing:

	From Edge Minimum	From Corner Minimum	Centres at Edge Maximum	Centres from Mid Point Maximum
SCREWS	12mm	50mm	300mm	300mm
NAILS	12mm	50mm	200mm	200mm

Support Centres - 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.

WORKABILITY

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 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.

HEALTH AND SAFETY

A safety data sheet is available from the 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.

TECHNICAL INFORMATION

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



Promat UK Limited

The Sterling Centre, Eastern Road, Bracknell, Berkshire RG12 2TD
Telephone: 01344 381400 Fax: 01344 381401 www.promat.co.uk