

TECHNICAL DATA SHEET

CEMBOARD BUILDING BOARD

This data sheet provides information on high performance, cement bonded particle sheathing board – Cemboard



CEMBOARDTM

Material Composition	Cement bonded particle sheathing board
Properties	Great strength and stability with excellent acoustic properties and high impact resistance.
Environment	Use in normal environmental areas – good water resistance, walls must have a suitable weather protection on the outside. Can be left exposed for up to 12 months providing the board joints are suitably sealed.
Appearance	Light grey

Dimensional Conformity Nominal Weight (Kg) – Standard Sizes

Nominal Weight – Standard sizes		Length (mm)	Width (mm)	Thickness (mm)	Weight (kg/m ²)
	10mm	2400	1200	10mm	13.3 kg/m ²
	12mm	2400	1200	12mm	16kg/m ²
	16mm	2400	1200	16mm	21.3kg/m ²
	18mm	2400	1200	18mm	24 kg/m ²
	20mm	2400	1200	20mm	26.6 kg/m ²
	24mm	2400	1200	24mm	32 kg/m ²

Technical Information	Value/Unit	Applicable standard
Fire Classification	B-s1,d0	BS EN 13501-1
Density	≥1000kg/m3	BS EN 13986:2004+A1:2015
Bending Strength	≥9N/mm2	
Modulus of elasticity in bending	≥4000N/mm2	
Swelling in thickness	≤1.5%	
Internal bonding	≥0.5N/mm2	
Swelling in thickness after cyclic testing	≤1.5%	
Internal bonding after cyclic testing	≥0.3N/mm2	
Release of formaldehyde	Class E1	BS EN 13986
Thermal conductivity	0.10-0.20w/mK	ASTMC518-10
Thermal resistance	0.07-0.13M2-K/W	ASTMC518
Alkalinity	11-12pH	
Mean water vapour transmission	23g/m³/day	
Surface Condition		
Front	Smooth	
Back	Smooth	
Dimensional Tolerance		
Length	+3mm	
Width	+3mm	
Thickness	<12mm: ±0.7mm 12-15mm: ±1.0mm 15-18mm:±1.2mm >19mm:±1.5mm	

Limitations of Use

Installation

The board is designed to be installed by a competent builder, or a contractor, experienced with this type of product. A suitably qualified and experienced individual must check the design and method of installation of the boards. Cemboard can be cut with a fine tooth hand saw or power saw, ensuring suitable dust control measures are taken (e.g. protective safety glasses, gloves and respiratory masks) and observing all necessary health and safety regulations. Damaged boards must not be used. The level of supervision during installation of the board and the associated structure, must be sufficient to ensure the quality of workmanship. Framing grade timber studs or galvanized steel framework should be provided at a maximum 600 mm centres for single-layer partitions. The frame to which the panels are fixed must be structurally sound and constructed in accordance with the requirements of the relevant national Building Regulations and Standards.

Applications

The boards are fixed to the steel/timber studs using the specified screws, ensuring that the screws are flush-fitted (that is, not overtightened), and positioned at a minimum of 12 mm from the edges of the boards and a minimum of 50 mm from the corners. Once the first board is installed, subsequent boards are installed with a 2-5mm gap between boards.

STANDARD JOINTING

Non fire rated walls

Tape over board joints using DAFA UV tape or ME315 tape

Air tightness

Apply the joint seal kit over the joints

REFER TO CEMBOARD K11 FOR FURTHER INFORMATION

Installation/Fixing

Fixings:

- Steel Frame use 4.8mm x 38mm Wing tip self-drilling fixing,
- Timber Frame use 4.2mm x 42mm Climaseal self-drilling fixing.

RCM Cemboard edge distance is 12mm except at the board corners where fixings should be moved up or down to achieve 50mm. Fixings should be fixed using a maximum 600mm x 300mm grid pattern, typical board fixing detail drawings available.

Install sequence 1: Boards to be installed in a brick bond pattern in accordance with RCM recommendation. Line and level the first board and fix in accordance with the fixing drawing. Follow the same process with the next board leaving consistent joints as shown in the standard fixing detail drawing.

Install sequence 2: Deflection joints will be maintained at floor levels, boards will be installed as per the engineering design drawings/details. All abutments, openings or penetrations will be neatly cut around and trimmed. EPDM Tape applied to deflection joints.

Install sequence 3: All board cutting is to be completed on a bench or trestles and cutting machines will have full dust suppression in operation at all times. Measure and mark the boards before cutting ensuring a straight edge is formed. If possible, L around the windows and openings. Ensure new board line works with window head and cill arrangements.

Install sequence 4: Boards to be secured with the required fixings, in accordance with the fixing patterns provided in Benx Typical board's fixing details drawings.

Install sequence 5: Once the system is installed and the fixing arrangement has been inspected, all joints will be sealed following the standard jointing paragraph from this document, Ensure tape is applied to all joints and around openings. Finish must be smooth and avoid creases where possible.

Install sequence 6: Repeat the process around the elevation. Each area is to be inspected and recorded.

Inspection: Complete visual inspections to ensure the product is installed correctly.

REFER TO CEMBOARD INSTALL GUIDE FOR FURTHER INFORMATION

Commonly used components	
	
Board fixing for SFS - FIX006– 4.8 X 38mm	Board fixing for Timber frame - FIX005 – 4.2 X 42mm
 	
Board jointing tapes - DAFA UV Tape and ME315 Tape	Board jointing sealant - NULLIFIRE Fire rated silicone sealant

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