

Multipurpose Sheathing Board

Product Description

RCM Multipurpose is suitable for a range of internal and external applications, offering tested mechanical performance and weather resistance. It is available as building boards and soffit strips. Multipurpose is classified A1 to EN 13501-1 and may be specified for projects over 18m subject to project-specific fire strategy and regulatory requirements.




Material Composition	Cellulose Fibre-cement board
Properties	Multipurpose has a high moisture resistance of BS EN 12467 with a low thermal conductivity. Multipurpose can be left exposed for up to 12 months when board joints are suitably sealed.
Environment	For use in normal environmental areas . Use in coastal areas does not affect panel performance. Able to withstand strong wind loading.
Appearance	Grey in colour with one smooth face and one textured face – textured face should be fixed outermost

Dimensional Conformity Nominal Weight (Kg) – Standard Sizes

		Length (mm)	Width (mm)	Thickness (mm)	Weight (kg/m ²)
Nominal Weight – Standard sizes	3.2mm	2400	1200	3.2mm	4.4 kg/m ²
	4.5mm	2400	1200	4.5mm	6.2 kg/m ²
	6mm	2400	1200	6mm	8.25kg/m ²
	9mm	2400	1200	9mm	12.4 kg/m ²
	12mm	2400	1200	12mm	16.5 kg/m ²
	18mm	2400	1200	18mm	24.75 kg/m ²
	9mm	2700	1200	9mm	14.3 kg/m ²
	12mm	3000	1200	12mm	16.5 kg/m ²
Nominal Oven Dry Weight	8.3kg/m ² (6mm Thickness) 16.5kg/m ² (12mm Thickness)				

Technical Information	Value/Unit	Applicable standard
Reaction to fire	Class A1	PN-EN 13501-1:2019-02
Nominal Board Density	1375kg/m ³	BS EN 12467
Thermal conductivity	0.12 W/mk	BS EN 12524
MoR Oven Dry – Across	19Mpa	BS EN 12467
MoR Oven Dry – Along	11Mpa	BS EN 12467
MoR Saturated – Across	14Mpa	BS EN 12467
MoR Saturated – Along	7Mpa	BS EN 12467
Density at oven dry	1.33-1.42g/cm ³	
Modulus of Rupture (saturated) Modulus of Rupture (Oven Dry)	10.5N/mm ² 15.0N/mm ²	
Biological Resistance	Highly Resistance	
Mould Resistance	Level 10	
Moisture Movement	0.06-0.08%	
Moisture Content	8%	
Fire Resistance Information		
BS EN 1364-1 (Non loadbearing) Achieving 60 minutes Integrity & Insulation (Outside to Inside) Achieving 90 minutes Integrity & Insulation (Inside to outside)		
BS EN 1365-1 (Loadbearing) Achieving 90 minutes Integrity & Insulation (Inside to outside)		
BS 476: Part 21 (Non loadbearing) Achieving 90 minutes Integrity & Insulation (Outside to Inside)		
BS 476: Part 22 (Non loadbearing) Achieving 60 minutes Integrity & Insulation (Outside to Inside)		
FOR MORE INFORMATION ON THE FIRE TESTS PLEASE CONTACT BENX TECHNICAL SERVICES		
Surface Condition		
Front	Smooth	
Back	Textured	
Dimensional Tolerance		
Length	+1/-2mm	
Width	+1/-2mm	
Thickness	±10%	

Limitations of Use

Installation

- Reasonable precautions must be taken to ensure the boards are not damaged during installation. When cutting the boards, power and hand tools should be used with the care and in accordance with the Certificate holder's recommendations. Power tools should only be used by individuals who have been instructed and trained to use them safely. Appropriate Personal Protective Equipment (PPE) should be used. It is important to observe appropriate health and safety legislation when working on site (that is, using personal protective clothing and equipment). The Certificate holder should be consulted for material safety data sheets and advice. When working in enclosed areas, precautions should be taken to ensure dust levels are controlled in accordance with the current issue of EH40/2005.

Water Protection

- External walls must have suitable weather protection on the outside and a ventilated cavity must be provided. The products must be treated as a conventional sheathing boards with regard to detailing and damp-proofing at openings, eaves and sole plates, and the fixing of wall ties. Where required by design, the addition of a breather membrane must be in accordance with BS 5250 : 2011.

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

Fire rated walls

Fill board joints with NULLIFIRE fire rated silicone sealant

Air tightness

Apply the joint seal kit over the joints – for fire rated walls use NULLIFIRE within joints as referenced above

REFER TO Y-WALL K11 FOR FURTHER INFORMATION

Installation/Fixing

Fixings:

- Steel frame; Ø4.8x38mm FIX006 self-drilling drill point winged.
- Timber frame; Ø4.2x42mm FIX005 self-drilling.

RCM Multipurpose 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. 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 Y-WALL K11 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

Disclaimer of Liability

The information supplied in this Technical Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

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