

Benx Building Boards Typical K11 Specification **Multipurpose** Rigid Sheet Sheathing



Benx Ltd

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Project:	Typical Specification
Project Reference:	N/A
Specification Number:	N/A
System:	Building Boards
Substrate:	Multipurpose
Composition:	Cellulose fibre cement board
Thickness	3.2, 4.5, 6,9,12 mm
Method of Fixing:	Mechanical fixing
System Finish:	Metal-Ø4.8x38mm FIX006 self-drilling drill point winged. Timber- Ø4.2x42mm FIX005 self-drilling.
Accreditation:	BBA – Certificate Ref: 19/5708 Product sheet 1



Typical Multipurpose board

Key Contact Details

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Supporting Links	Technical Downloads NBS Plus – SPS Envirowall NBS Plus – RCM
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Prepared by:	Benx Technical Services

Quality Assurance Note :-

The following specification should be read in conjunction with Benx Quality Assurance documentation, best practice, and installation guidelines.

Benx ISO CERTIFICATION

- ISO 14001 - ENVIRONMENTAL REGISTERED COMPANY CERTIFICATE No. SP240368
- ISO 9001 - REGISTERED COMPANY CERTIFICATE No. SP240367
- ISO 45001 - HEALTH & SAFETY CERTIFICATE
- ISO 50001 - ENERGY MANAGEMENT

K11 RIGID SHEET SHEATHING

GENERAL

Cross-reference

General: Read with NBS A90 General technical requirements (available under request)

PRODUCTS

Nonstructural rigid sheet materials (non loadbearing)

Usage: Nonstructural use including underlayment, linings, and casings.

- Appearance class to BS EN 63
The exposed face of the sheets should be the smooth face with the textured face behind. Variations of the surface appearance which do not impair the fitness for purpose of the sheets are permitted.
- EN12467:2012 Fibre-Cement flat sheets

Structural sheet materials

Usage: Structural use including wall sheathing.

Cement bonded particle board: to applicable standards for nonstructural use and to relevant standards and quality control procedures specified in BS 5268-2, and so marked.

EXECUTION

Wall sheathing

Substrate: Suitable timber and SFS studs using the specified screws at maximum 300mm spacing.

Long edges: Vertical, centre on supports.

Expansion gap between adjacent boards: 2-5 mm.

Fixing centres:

- Around board edges: To BS 5268-6.1.
- Along intermediate supports: 300mm max.

Fixing distance from edges: 50mm from bottom & top edge of board and 12mm min. from other edges.

Rigid sheet insulation fixed through wall sheathing.

Setting out: Tongue uppermost, with no gaps.

Fixing centres: Around board edges and along intermediate supports: recommended by sheet manufacturer.

Wall linings

Substrate: Suitable timber and SFS studs using the specified screws at maximum 300mm spacing.

Setting out lining: Run long edges across supports. Lay with a gap between adjacent boards.

Fixing lining to supports:

- Around board edges and along intermediate supports: 200mm max.
- Distance from board edges: 12mm min.

Cement bonded particle board fixing centres:

- Around board edges, along intermediate supports and distance from edges: Recommended by sheet manufacturer.
- Distance from long edges: 50mm min.

Installation generally

Timing: Building to be weathertight before fixing boards internally.

Moisture content of timber supports: 18% max.

Joints between boards: Accurately aligned, of constant width and parallel to perimeter edges.

Methods of fixing, and fasteners: As section Z20 unless specified otherwise.

Fixing generally

Boards/Sheets : Fixed securely to each support without distortion and true to line and level.

Fasteners : Evenly spaced in straight lines and, unless otherwise recommended by board manufacturer, in pairs across joints

- Distance from edge of board/sheet : sufficient to prevent damage

Open joints

Perimeter joints, expansion joints and joints between sheets. Multipurpose is tested with lightly butt jointed or with a 2-5mm board gap filled with fire seal mastic filling the joints.

Access panels

Size and position: Agree before boards are fixed.

Additional noggings/dwangs , battens, etc... Provide and fix as necessary.

Multipurpose Specification data - Fibre-reinforced cement boards

Uniclass Pr_25_71_11_25 Fibre-reinforced cement boards

Standard	To BS EN 12467.
Fire rating	Class A1 noncombustible to BS EN 13501-1: 2018. Behaviour in relation to fire: the board has a reaction to fire classification of A1 in accordance with BS EN 13501-1 : 2018. BS 476-4 non-combustible; 60' and 90'.
Weather resistance	BRE test report P115139-1000 Issue2 9/08/2019 The mean water vapour transmission of Multipurpose board can be taken as 107 g/m ² /day Walls must have suitable weather protection on the outside, and a vented cavity. The product should be treated as conventional sheathing board with regard to detailing and damp-proofing at openings, eaves and sole plate, and the fixing of wall ties. Where required by design, the addition of a breather membrane must be in accordance with BS 5250 : 2011.
Thermal conductivity	0.12 W/mK
Nominal thickness	6,9,12, mm - Non-standard sizes available on a minimum order, quantity and lead time being agreed on.
Length	2400mm - Non-standard sizes available on a minimum order, quantity and lead time being agreed on.
Width	1200mm - Non-standard sizes available on a minimum order, quantity and lead time being agreed on.
Edges	Squared, Bevelled.
Colour	Light grey.
Modulus of Rupture	7–12 MPa.
Accessories	<u>Silicone Sealant</u> FR PRO fire rated Nullifire fire rated <u>Joint Tape</u> DAFA UV tape RCM 315 tape <u>EPDM and Adhesive</u> RCM Joint seal kit (tape and liquid) RCM Dafa EPDM RCM 220 EPDM RCM 015 EPDM Adhesive
Fixings	Recommended fixings: For fixing into SFS framing, Ø4.8 x 38 mm - FIX006 - self-drilling wingtip fixings. For stainless steel alternatives contact BENX technical For fixing into timber framing, Ø4.2 x 42 mm - FIX005 - self-drilling fixings. For stainless steel alternatives contact BENX technical Multipurpose edge distance is 12-15 mm except at the board corners where fixings should be moved up or down to achieve 50 mm. Fixings should be fixed using a maximum 600 x 300 mm grid pattern – FOR FURTHER INFORMATION PLEASE SEE MULTIPURPOSE FIXING DETAILS
Third-party approval	BBA Certificate 19/5708 Product sheet 1

