

Benx Building Boards Typical K11 Specification **Y-Wall** Rigid Sheet Sheathing



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Project:	Typical Specification
Project Reference:	N/A
Specification Number:	N/A
System:	Building Boards
Substrate:	Y-Wall
Composition:	Calcium silicate-based fibre cement
Thickness	9,12,15 mm
Method of Fixing:	Mechanical fixing SFS Fixing - \varnothing 4.8x38mm FIX006 self-drilling wingtip. Timber Frame Fixing- \varnothing 4.2x42mm FIX005 self-drilling.
Accreditation:	BBA – Certificate Ref: 14/5109



Typical Y-Wall board

Key Contact Details

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Supporting Links	Technical Downloads NBS Plus – SPS Envirowall NBS Plus – RCM
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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

Non-structural rigid sheet materials (non-loadbearing)

Usage: Non-structural use including underlayment, linings, and casings.

- Appearance class to BS EN 635
The exposed face of the sheets should be the smooth side of the board with the textured on the opposite side. Variations of the surface appearance which do not impair the fitness for purpose of the sheets are permitted.
- BS EN 12467:2012 Fibre-cement flat sheets (+A1:2016)

Structural sheet materials

Usage: Structural use including wall sheathing.

Cement bonded particle board: to applicable standards for non-structural use and to relevant standards and quality control procedures specified in BS EN 1995-1-1 and so marked.

EXECUTION

Wall sheathing

Substrate: Suitable timber and SFS studs set at 600mm centres maximum.

Long edges: Vertical, centre on supports.

Expansion gap between adjacent boards: 2-5 mm.

Fixing distances:

- Edge distance: 12 - 15 mm except at the board corners where fixings should be moved up or down to achieve 50 mm

Fixing centres:

- Fixings should be fixed using a maximum 600 x 300 mm grid pattern, see fixing pattern for further details

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 set at 600mm centres maximum.

Long edges: Vertical, centre on supports.

Expansion gap between adjacent boards: butt jointed.

Fixing distances:

- Edge distance: 12 - 15 mm except at the board corners where fixings should be moved up or down to achieve 50 mm

Fixing centres:

- Fixings should be fixed using a maximum 600 x 300 mm grid pattern, see fixing pattern for further details

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 - Fixings.

Light Gauge Steel Frame (LGSF)

Thickness: Minimum 1.2mm

Flanges: Minimum 50mm wide to front face of sheathing board

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 with a gap of 2-5mm to be left between the boards.

Open joints

Perimeter joints, expansion joints and joints between sheets. Y-Wall opening joint seal is made up of two products; Expanding sealant tape and EPDM tape

Y-Wall Specification data - Fibre-reinforced cement boards

Uniclass Pr_25_71_11_25 Fibre reinforced cement boards

Standard	To BS EN 12467.
Fire rating	A1 in accordance with BS EN 13501-1: 2018 Up to 60 - 120 mins – Dependent upon buildup BS EN 1364-1 BS EN 1365-1 BS 476 Part 4 BS 476 part 22
Weather resistance	BRE Test report P115139-1000 Issue2 9/08/2019 Where required by design, the addition of a breather membrane must be in accordance with BS 5250 : 2011. 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.
Thermal conductivity	≤0.195 W/mk : BS EN 12667
Length	2400 mm. For non-standard dimensions, consult Benx technical for details including minimum order quantity and lead time.
Width	1200 mm. For non-standard dimensions, consult Benx technical for details including minimum order quantity and lead time.
Edges	Manufactured straight edge
Colour	Light Yellow
Modulus of Rupture	9–12 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 RCM Y-WALL 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 YWALL FIXING DETAILS**

Third-party approval BBA Certificate 14/5109