



Benx Building Boards
Typical K10 Specification
Densglass
Fibre reinforced gypsum boards



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Project:	Typical Specification
Project Reference:	n/a
Specification Number:	n/a
System:	Building Boards
Substrate:	Densglass
Composition:	Fiberglass matt gypsum board
Thickness	12.7 mm
Method of Fixing:	Mechanical fixing
System Finish:	Metal-Ø4.2x32mm FIX018 self-drilling. Timber- Ø4.2x42mm FIX005 self-drilling.
Accreditation:	BBA – Certificate Ref: 21/5958 Product sheet 1



Typical Densglass 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

Project Specification Revision Record (for use on project specific specifications)

Version Number	Date of Issue	Key Revision Amendments / Additions	Requested By	Prepared By	Checked By

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

K10 PLASTERBOARD DRY LININGS FOR WALLS, PARTITIONS AND CEILINGS**GENERAL**

Cross-reference

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

PRODUCTS**Gypsum plasterboards to BS EN 520**

Type E (gypsum sheathing board):

- Manufactured to be used as sheathing board in external walls.
- Not intended to receive decoration.
- Not designed to be permanently exposed to external weather conditions.
- Has reduced water absorption rates.

Edges:

- Normally squared cut, but can be beveled, tapered, half rounded, rounded, or a combination of each.

Designation of plasterboards:

- Gypsum plasterboard/ type letter/ BS EN 520 -Width/Length/thickness/ edge profile.
- E.g. Gypsum plasterboard/ Type E/ BS EN 520 -1200/2400/12.7/squared cut.

Rigid beads/stops:

- Standard: galvanized steel to BS EN ISO 1461.

EXECUTION**New wet laid bases**

DPCs: Install under full width of partitions/freestanding wall linings.

Metal framing

Setting out accurately aligned and plumb.

- Frame/stud positions: Equal centres to suit specified linings, maintaining sequence across openings.
- Additional studs: to support vertical edges of boards.

Fixing centres at perimeters (maximum): 600 mm.

Openings: form accurately.

- Doorsets and windows: Use sleeved or boxed metal studs and/or suitable timber framing to achieve strength grade requirements for framing assembly and adequately support weight of door/window.
- Services penetrations: Allow for associated fire stopping.

Additional supports

Framing: Accurately position and securely fix to give full support to:

- Partition heads: running parallel with, but offset from main structural supports.
- Fixtures, fittings and service outlets. Mark framing positions clearly and accurately on linings.
- Board edges and lining perimeters: as recommended by board manufacturer to suit type and performance of lining.

Dry lining generally

General: Use fixing, jointing, sealing and finishing materials, components and installation methods recommended by board manufacturer.

Cutting plasterboard: Neatly and accurately without damaging core or tearing fiberglass facing.

- Cut edges: Minimize and position at internal angles wherever possible. Mask with bound edges of adjacent boards at external corners.

Fixing boards: Fix securely and firmly to suitably prepared and accurately levelled backgrounds.

Finishing: Neatly to give flush, smooth, flat surfaces free from bowing and abrupt changes of level.

Installing mineral wool insulation

Fitting insulation: Closely butted joints and no gaps. Use fasteners to prevent slumping or displacement.

- Fixtures, fittings, and service outlets, overlaid by insulation. Sized accordingly.
- Don't fix to the board, fix through the board to structural studs.

Sealing gaps and air paths

Location of sealant: To perimeter abutments and around openings.

- Pressurized shafts and ducts: at board-to-board and board-to-metal frame junctions.

Application: to clean, dry, and dust free surfaces as a continuous bead with no gaps.

- Gaps greater than 6mm : after sealing, fill with jointing compound.

Cavity fire barriers

Installation: Form accurately and fix securely with no gaps to provide a complete barrier to smoke and flame.

Service penetrations: Cut and pack to maintain barrier integrity. Sleeve flexible materials. Adequately support services passing through barriers.

Material: Tightly packed mineral wool or intumescent mastic sealant.

Joints between boards

Tapered edged plasterboard :

- Bound edges lightly butted.
- Cut/unbound edges 3mm gap.

Square edged plasterboard : 3mm gap

Square edged fibre reinforced gypsum board : 5mm gap

Vertical joints

Joints: centre on studs/ framing.

Partitions: Stagger joints on opposite sides of studs.

Horizontal joints

Surfaces exposed to view: Horizontal joints not permitted. Seek instructions where height of partition exceeds maximum available length of board.

Fixing plasterboard to metal framing

Screw fixing to framing:

- Position of screws from edges of boards min. 10mm
- Screw heads set in a depression and do not break fiberglass or gypsum core.
- Fixing insulation backed plasterboard to metal studs: in addition to screw fixings apply continuous beads of adhesive sealant to studs.

Repairs to existing boards

Filling small areas with broken cores: Cut away fiberglass facing, remove loose core material and fill with jointing compound.

- Finish Flush and smooth surface,

Large patch repairs: Cut out damaged area and form neat hole with rectangular sides. Replace with matching board.

- Fixing: Use methods to suit type of dry lining, ensuring full support to all edges of existing and new board.
- Finishing: fill joints, tape and apply jointing compound to give flush and smooth surface.

Densglass Specification data - Fibre-reinforced gypsum boards

Uniclass	Pr_25_71_35_29 Fibre-reinforced gypsum boards
Standard	To BS EN 15283-1:2008 + A1:2009.
Reinforcement	Glass fibre-reinforced.
Fire rating	BS EN 13501-1 Class A1 Non Combustible.
Thickness	12.7 mm.
Colour and finish	Gold, Matt. Gold, Fleeced.
Nominal density	750 kg/m ³ .
Thermal Conductivity	0.21 W/mk.
Moisture resistance	GM-H1.
Biological/ chemical resistance	Level 10 ASTM D3273.
Board size	1200 x 2400 x 12.7 mm.
Mass	9.3 kg/m ² .
Fixing	Metal-Ø4.2x32mm FIX018 self-drilling.
	Timber- Ø4.2x42mm FIX005 self-drilling.