

Primrose Hill Primary ARP

1161

K10 Dry linings/ partitions/ ceilings

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K10 Gypsum board dry linings/ partitions/ ceilings

To be read with Preliminaries/ General conditions.

TYPES OF DRY LINING

- 125A METAL STUD PARTITION SYSTEM WALL TYPE IW-01
 - Manufacturer: British Gypsum or equal and approved.
 Product reference: GypWall Robust Overall Partition Nominal Thickness: 102mm Sound insulation: 50 Rw dB Duty Rating: Robust Fire Performance: 60 mins (refer to fire strategy drawings for specific requirements).
 - · Studs:
 - Type: 70 S 60 C.
 - Centres: 600 mm.
 - Head condition: Existing timber floor.
 - Deflection allowance: 15 mm.Insulation: Isover APR 1200 in cavity.
 - Thickness: 80mm.
 - Linings: One layer of Gyproc Duraline15mm plasterboard to both sides.
 - Finishing: Skim coat plaster .
 - Primer/ Sealer: As recommended by board manufacturer .
 - Accessories: Metal beads/ stops recommended by board manufacturer .
 - Other requirements:
 - Fire stopping around services as section P12
 - For areas to receive ceramic tiling, Gyproc Glasroc H Tilebacker board to be inlaid between studs as setting drawings

125B METAL STUD PARTITION SYSTEM WALL TYPE IW-02

- Manufacturer: British Gypsum or equal and approved.
 - Product reference: GypWall Robust Overall Partition Nominal Thickness: 102mm Sound insulation: 47 Rw dB Duty Rating: Robust
 - Fire Performance: 60 mins (refer to fire strategy drawings for specific requirements).
- Studs:
 - Type: 70 S 60 C.
 - Centres: 600 mm.
- Head condition: Existing timber floor.
 - Deflection allowance: 15 mm.
- Insulation: Isover APR 1200 in cavity.
 - Thickness: 25mm.
- Linings: One layer of Gyproc Duraline15mm plasterboard to both sides.
- Finishing: Skim coat plaster .
 - Primer/ Sealer: As recommended by board manufacturer .
 - Accessories: Metal beads/ stops recommended by board manufacturer .
- Other requirements:
 - Fire stopping around services as section P12
 - For areas to receive ceramic tiling, Gyproc Glasroc H Tilebacker board to be inlaid between studs as setting drawings
- For areas to receive fixings, plywood pattress panels to inlaid between studs as per setting out drawings.

125C METAL STUD PARTITION SYSTEM WALL TYPE IW-03

- Manufacturer: British Gypsum or equal and approved.
 - Product reference: GypWall Robust
 - Overall Partition Nominal Thickness: 102mm Sound insulation: 42 Rw dB
 - Duty Rating: Robust

Fire Performance: 60 mins (refer to fire strategy drawings for specific requirements).

- · Studs:
 - Type: 70 S 60 C.
 - Centres: 600 mm.
- Head condition: Existing timber floor.
 - Deflection allowance: 15 mm.
- Insulation: n/a.
- Linings: One layer of Gyproc Duraline15mm plasterboard to both sides.
- Finishing: Skim coat plaster .
 - Primer/ Sealer: As recommended by board manufacturer .
 - Accessories: Metal beads/ stops recommended by board manufacturer .
- Other requirements:
 - Fire stopping around services as section P12

- For areas to receive ceramic tiling, Gyproc Glasroc H Tilebacker board to be inlaid between studs as setting drawings

125D METAL STUD PARTITION SYSTEM WALL TYPE IW-04

- Manufacturer: British Gypsum or equal and approved.
 - Product reference: GypWall Robust Overall Partition Nominal Thickness: 208mm Sound insulation: 61 Rw dB Duty Rating: Robust
 - Fire Performance: 60 mins (refer to fire strategy drawings for specific requirements).
- Studs:
 - Type: 146 S 50 C.
 - Centres: 600 mm.
- Head condition: Existing timber floor.
 - Deflection allowance: 15 mm.
- Insulation: Isover APR 1200 in cavity.
 - Thickness: 50mm.
- Linings: Two layers of Gyproc SoundBlock 15mm plasterboard to both sides.
- Finishing: Skim coat plaster .
 - Primer/ Sealer: As recommended by board manufacturer .
 - Accessories: Metal beads/ stops recommended by board manufacturer .
- Other requirements:
 - Fire stopping around services as section P12
 - For areas to receive ceramic tiling, Gyproc Glasroc H Tilebacker board to be inlaid between studs as setting drawings
- For areas to receive fixings, plywood pattress panels to inlaid between studs as per setting out drawings.

125E METAL STUD PARTITION SYSTEM WALL TYPE IW-05

- Manufacturer: British Gypsum or equal and approved.
 - Product reference: GypWall Robust
 - Overall Partition Nominal Thickness: 208mm Sound insulation: 56 Rw dB
 - Duty Rating: Robust

Fire Performance: 60 mins (refer to fire strategy drawings for specific requirements).

- · Studs:
 - Type: 146 S 50 C.
 - Centres: 600 mm.
- Head condition: Existing timber floor.
 - Deflection allowance: 15 mm.
- Insulation: Isover APR 1200 in cavity.
 - Thickness: 25mm.
- Linings: Two layers of Gyproc SoundBlock 12.5mm plasterboard to both sides.
- Finishing: Skim coat plaster .
 - Primer/ Sealer: As recommended by board manufacturer .
 - Accessories: Metal beads/ stops recommended by board manufacturer .
- Other requirements:
 - Fire stopping around services as section P12
 - For areas to receive ceramic tiling, Gyproc Glasroc H Tilebacker board to be inlaid between studs as setting drawings

125F METAL STUD PARTITION SYSTEM WALL TYPE IW-06

- Manufacturer: British Gypsum or equal and approved.
 - Product reference: GypWall Robust Overall Partition Nominal Thickness: 147mm Sound insulation: 57 Rw dB Duty Rating: Robust
 - Fire Performance: 60 mins (refer to fire strategy drawings for specific requirements).
- Studs:
 - Type: 90 AS 50 C.
 - Centres: 600 mm.
- Head condition: Existing timber floor.
 - Deflection allowance: 15 mm.
- Insulation: Isover APR 1200 in cavity.
 - Thickness: 25mm.
- Linings: One layer of Gyproc SoundBlock 12.5mm & one layer of Duraline 15mm plasterboard to both sides.
- Finishing: Skim coat plaster .
 - Primer/ Sealer: As recommended by board manufacturer .
 - Accessories: Metal beads/ stops recommended by board manufacturer .
- Other requirements:
 - Fire stopping around services as section P12
 - For areas to receive ceramic tiling, Gyproc Glasroc H Tilebacker board to be inlaid between studs as setting drawings

- For areas to receive fixings, plywood pattress panels to inlaid between studs as per setting out drawings.

125G METAL STUD PARTITION SYSTEM WALL TYPE IW-07

- Manufacturer: British Gypsum or equal and approved.
 - Product reference: GypWall Robust Overall Partition Nominal Thickness: 122mm Sound insulation: 46 Rw dB Duty Rating: Robust Fire Partermanae: 60 mine (refer to fire strategy)

Fire Performance: 60 mins (refer to fire strategy drawings for specific requirements).

- Studs:
 - Type: 90 AS 60 C.
 - Centres: 600 mm.
- Head condition: Existing timber floor.
- Deflection allowance: 15 mm.
- Insulation: n/a.
- Linings: One layer of Gyproc Duraline15mm plasterboard to both sides.
- · Finishing: Skim coat plaster .
 - Primer/ Sealer: As recommended by board manufacturer .
 - Accessories: Metal beads/ stops recommended by board manufacturer .
- Other requirements:
 - Fire stopping around services as section P12
 - For areas to receive ceramic tiling, Gyproc Glasroc H Tilebacker board to be inlaid between studs as setting drawings

145A WALL LINING SYSTEM (METAL STUDS) WALL TYPE IW-08

- Manufacturer: British Gypsum or equal and approved.
 - Product reference: GypLyner
 - Overall Lining Nominal Thickness: 65mm
 - Sound insulation: n/a
 - Duty Rating: Robust

Fire Performance: 60 mins (refer to fire strategy drawings for specific requirements).

- Studs:
 - Type: 50 I.
 - Centres: 600 mm.
- Head condition: Existing timber floor.
- Deflection allowance: 15 mm.
- Insulation: n/a.
- Linings: One layer of Gyproc Duraline15mm plasterboard .
- Finishing: Skim coat plaster .
 - Primer/ Sealer: As recommended by board manufacturer .
 - Accessories: Metal beads/ stops recommended by board manufacturer .
- Other requirements:
 - Fire stopping around services as section P12
 - For areas to receive ceramic tiling, Gyproc Glasroc H Tilebacker board to be inlaid between studs as setting drawings
 - For areas to receive fixings, plywood pattress panels to inlaid between studs as per setting out drawings.
- 185 WALL LINING SYSTEM (ADHESIVE) WALL TYPE EW-01
 - Manufacturer: British Gypsum or equal and approved.
 Product reference: Gyproc ThermaLine PIR board.
 - Wall: Existing masonry with cavity drain.
 - Adhesive method: Dabs as clause 625.
 - Linings: Thermal laminate plasterboard.
 - Finishing: Skim coat plaster.
 - Primer/ Sealer: As recommended by board manufacturer.
 - Accessories: Metal beads/ stops recommended by the board manufacturer .
 - Other requirements: None.
- 210A LINING ON TIMBER STUDS WALL TYPE IW-09
 - Background: 2no. C2 Studs 47x145mm @600mm centres including predrilled 10mm steel gusset plates as per S.E. specification.
 - Metal resilient (acoustic) bars: Not required.
 - Outside Lining (Hall side): 12mm Ply fixed to studs, treated SW batten to support 25x40mm hardwood horizontal panelling as clause K13/110A .
 - Inside Lining (Cabin side): 10mm Ply fixed to studs, 25mm Heradesign Superfine panel as clause K13/170A
 - Fixing: Stainless steel hexscrews for any visible exterior fixing, rust-protected universal drywall screws for Heradesign panels.
 - Finishing: Mitred egdes to all exterior cladding corners, pitch and other junctions.
 - Primer/ Sealer: Stain and varnish to exterior cladding as clause K13/110A, allow for 2no. spray coats to Heradesign panels.
 - Accessories: Hardwood trims to match exterior cladding to protect edges of interior Heradesign lining.
 - Other requirements: Paint to exterior of plywood visible through exterior cladding.

- 220 PROPRIETARY SUSPENDED CEILING SYSTEM
 - Standard: To BS EN 13964.
 - Evidence of compliance: All ceilings kits to be CE marked. Submit Declaration of Performance (DoP).
 - Manufacturer: British Gypsum or equal and approved...
 - Product reference: GypLyner Universal ceiling or equal and approved.
 - Lining board: 12.5mm Duraline & 12.5mm Duraline MR wet areas.
 - Finishing: Skim coat plaster.
 - Accessories: Metal beads/ stops recommended by lining board manufacturer.
 - Suspension system:
 - Grid centres: 600 mm.
 - Hangers: Type recommended by board manufacturer.
 - Length: To give ceiling soffit height above finished floor level, as noted on drawings. Centres: 900 mm.
 - Top fixing: To suit structural soffit of existing plasterboard / lath and plaster ceiling on timber joists at nominal centres.
 - Insulation: Not required.
 - Thickness: Not applicable.
 - Access units: Required size and location TBC by M&E Eng.
 - Integrated services fittings: Hangers and housings for linear luminaires.
 - Electrical continuity and earth bonding: TBC by M&E Eng.
 - Accessories/ Other requirements:
 - Corner and stop beads to all exposed edges
 - Allow for finishing neatly around M+E fittings.

GENERAL/ PREPARATION

- 305 COMPLIANCE WITH PERFORMANCE REQUIREMENTS
 - Testing/ Assessment: Submit UKAS accredited laboratory reports for the following: Fire resistance: Partitions (including deflection heads and doorsets) and suspended ceilings (including access units)..
 - Materials, components and details: As used in testing/ assessment reports. If discrepancies arise, give notice.
- 325 PREPARATION OF MASONRY TO RECEIVE WALL LININGS
 - General: Suitable to receive lining system. Redundant fixtures and services removed. Cutting, chasing and making good completed.
 - Holes, gaps, service penetrations, perimeter junctions and around openings: Seal.
 - Adhesive fixings: Prepare substrate to achieve effective bonding.
 - Contaminants: Remove loose material, dirt, grease, oil, paper, etc.
 - Absorption: Control by dampening, priming or applying bonding agents as necessary.

335 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.
- 375 NEW WET LAID BASES
 - Dpcs: Install under full width of partitions/ freestanding wall linings.
 Material: Bituminous sheet or plastics.

COMPONENTS

Haverstock

- 401 GYPSUM PLASTERBOARD
 - Type: To BS EN 520, type A.
 - Core density (minimum): 650 kg/m³.
 - Reaction to fire: Manufacturer's standard.
 - Water vapour resistance factor: Manufacturer's standard.
 - Thermal conductivity: Manufacturer's standard.
 - Other BS EN 520 characteristics: None.
 - Recycled content: Contractor's choice.
 - Exposed surface and edge profiles: Clean and undamaged.

403 GYPSUM PLASTERBOARD (MOISTURE RESISTANT)

- Type: To BS EN 520, type H3.
- Core: Moisture resistant.
 Density (minimum): 710 kg/m³.
- Paper facings: Moisture resistant.
- Reaction to fire: Manufacturer's standard.
- Water vapour resistance factor: Manufacturer's standard.
- Thermal conductivity: Manufacturer's standard.
- Other BS EN 520 characteristics: None.
- Recycled content: Contractor's choice.
- Exposed surface and edge profiles: Clean and undamaged.

408 GYPSUM PLASTERBOARD (IMPACT RESISTANT)

- Type: To BS EN 520, type I.
- Core density (minimum): 900 kg/m³.
- Paper facings: Heavy duty.
- Reaction to fire: Manufacturer's standard.
- Water vapour resistance factor: Manufacturer's standard.
- Thermal conductivity: Manufacturer's standard.
- Other BS EN 520 characteristics: None.
- Recycled content: Contractor's choice.
- Exposed surface and edge profiles: Clean and undamaged.
- 430 ACCESS PANELS Gyproc Fire Rated Ceiling Panel Plasterboard with beaded frame or equal and approved
 - Type: 60 minutes fire protection to BS 476-22.
 Sizes: TBC by M&E Eng.
 - Frame: Bead for taping and jointing .
 - Panel: Plasterboard infill .
 - Lock: Tamper proof and operated by castellated key .
- 432 METAL STUDS
 - · Manufacturer: British Gypsum or equal and approved .
 - Product reference: As clauses above .

INSTALLATION

- 435 DRY LININGS GENERALLY
 - General: Use fixing, jointing, sealing and finishing materials, components and installation methods recommended by board manufacturer.
 - Cutting gypsum boards: Neatly and accurately without damaging core or tearing paper facing.
 - Cut edges: Minimize and position at internal angles wherever possible. Mask with bound edges of adjacent boards at external corners.
 - Fixings boards: 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.
- 445 CEILINGS
 - Sequence: Fix boards to ceilings before installing dry lined walls and partitions.
 - Orientation of boards: Fix with bound edges at right angles to supports and with ends staggered in adjacent rows.
 - Two layer boarding: Stagger joints between layers.

455 METAL FRAMING FOR PARTITIONS/ WALL LININGS

- 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: 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.
 - Services penetrations: Allow for associated fire stopping.
- 465 STAGGERED STUD PARTITIONS
 - Horizontal frame members (noggins, bearers, etc.) and boards: Fix between alternate studs and not touching adjacent offset studs.

505 INSTALLING MINERAL WOOL INSULATION

- Fitting insulation: Closely butted joints and no gaps. Use fasteners to prevent slumping or displacement.
- Services:
 - Electrical cables overlaid by insulation: Sized accordingly.
 - Ceilings: Cut insulation around electrical fittings, etc.

510 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 6 mm between floor and underside of gypsum board: After sealing, fill with jointing compound.

530 CAVITY FIRE BARRIERS WITHIN PARTITIONS/ WALL LININGS

- Metal framed systems:
 - Material: Plasterboard 12.5 mm thick.
 - Installation: Form accurately and fix securely with no gaps to provide a complete barrier to smoke and flame.
- Adhesive fixed wall lining systems:
 - Material: Adhesive compound.
 - Installation: Form in a continuous line with no gaps to provide a complete barrier to smoke and flame.

545 CAVITY FIRE BARRIERS WITHIN SUSPENDED CEILINGS

- Type: As recommended by board manufacturer to meet specification.
- Fire resistance: As fire drawings.
- Ceiling void subdivision: Fix barriers not more than 20 m apart in any direction.
- Fixing at perimeters and joints: Secure, stable and continuous 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 barrier.
- Ceiling systems for fire protection: Do not impair fire resisting performance of ceiling system.

555 FIRE STOPPING AT PERIMETERS OF DRY LINING SYSTEMS

- Material: Tightly packed mineral wool or intumescent mastic/ sealant.
- Application: To perimeter abutments to provide a complete barrier to smoke and flame.

560 JOINTS BETWEEN BOARDS

- Tapered edged gypsum boards:
 - Bound edges: Lightly butted.
 - Cut/ unbound edges: 3 mm gap.
- Square edged plasterboards: 3 mm gap.
- Square edged gypsum fibre boards: 5 mm gap.

565 VERTICAL JOINTS

- Joints: Centre on studs.
 - Partitions: Stagger joints on opposite sides of studs.
 - Two layer boarding: Stagger joints between layers.

570 HORIZONTAL JOINTS

- Surfaces exposed to view: Horizontal joints not permitted. Seek instructions where height of partition/ lining exceeds maximum available length of board.
- Two layer boarding: Stagger joints between layers by at least 600 mm.
- Edges of boards: Support using additional framing.
 - Two layer boarding: Support edges of outer layer.

580 INSULATION BACKED PLASTERBOARD

- General: Do not damage or cut away insulation to accommodate services.
- Installation at corners: Carefully cut back insulation or plasterboard as appropriate along edges of boards to give a continuous plasterboard face, with no gaps in insulation.

- 590 FIXING GYPSUM BOARD TO METAL FRAMING/ FURRINGS
 - Partitions/ Wall linings: Fix securely and firmly at the following centres (maximum):
 - Single layer boarding: To all framing at 300 mm centres. Reduce to 200 mm centres at external angles.
 - Multi-layer boarding: Face layer at 300 mm centres, and previous layers around perimeters at 300 mm centres.
 - Ceilings: 230 mm. Reduce to 150 mm at board ends and at lining perimeters.
 - Position of screws from edges of boards (minimum): 10 mm.
 - Screw heads: Set in a depression. Do not break paper or gypsum core.
- 595 DEFLECTION HEADS
 - Fixing boards: Do not fix to head channels.
- 625 FIXING INSULATION BACKED PLASTERBOARD WITH ADHESIVE DABS
 - Fixing to substrates: In addition to adhesive dab fixings, secure boards with nailable plugs in locations recommended by board manufacturer.

FINISHING

- 650 LEVEL OF DRY LINING ACROSS JOINTS
 - Sudden irregularities: Not permitted.
 - Joint deviations: Measure from faces of adjacent boards using methods and straightedges (450 mm long with feet/ pads) to BS 8212, clause 3.3.5.
 - Tapered edge joints: Permissible deviation (maximum) across joints when measured with feet resting on boards: 3 mm.
 - External angles: Permissible deviation (maximum) for both faces: 4 mm.
 Internal angles:
 - Permissible deviation (maximum) for both faces: 5 mm.
- 670 SEAMLESS JOINTING TO GYPSUM BOARDS
 - Cut edges of boards: Lightly sand to remove paper burrs.
 - Filling and taping: Fill joints, gaps and internal angles with jointing compound and cover with continuous lengths of paper tape, fully bedded.
 - Protection of edges/ corners: Reinforce external angles, stop ends, etc. with specified edge/ angle bead.
 - Finishing: Apply jointing compound. Feather out each application beyond previous application to give a flush, smooth, seamless surface.
 - Nail/ screw depressions: Fill with jointing compound to give a flush surface.
 - Minor imperfections: Remove by light sanding.

680 SKIM COAT PLASTER FINISH

- Plaster type As recommended by board manufacturer..
 Thickness: 2-3 mm.
- Joints: Fill and tape except where coincident with metal beads.
- Finish: Tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks.
- 692 RIGID BEADS/STOPS
 - Internal: To BS EN 13658-1.
 - External: To BS EN 13658-2.

695 INSTALLING BEADS/ STOPS

- Cutting: Neatly using mitres at return angles.
- Fixing: Securely using longest possible lengths, plumb, square and true to line and level, ensuring full contact of wings with substrate.
- Finishing: After joint compounds/ plasters have been applied, remove surplus material while still wet from surfaces of beads exposed to view.

725 REPAIRS TO EXISTING GYPSUM BOARD

- Filling small areas with broken cores: Cut away paper facing, remove loose core material and fill with jointing compound.
 - Finish: Flush, smooth surface suitable for redecoration.
- Large patch repairs: Cut out damaged area and form neat hole with rectangular sides. Replace with matching gypsum board.
 - Fixing: Use methods to suit type of dry lining, ensuring full support to all edges of existing and new gypsum board.
 - Finishing: Fill joints, tape and apply jointing compound to give a flush, smooth surface suitable for redecoration.