

# **Piccadilly Warehouse Refurbishment Project NBS Specification**

**12 April 2021**

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**K**

**Linings/Sheathing/Dry partitioning**

**K10**

**Gypsum board dry linings/ partitions/ ceilings**

## **K10 Gypsum board dry linings/ partitions/ ceilings**

To be read with Preliminaries/ General conditions.

## TYPES OF DRY LINING

### 125A PLASTERBOARD PARTITION SYSTEM BEECH WALL TYPE 1

- Manufacturer: Knauf.
  - Web: [www.knauf.co.uk](http://www.knauf.co.uk).
  - Email: [technical@knauf.co.uk](mailto:technical@knauf.co.uk).
  - Product reference: Apartment to Apartment & Apartment to Corridor
  - Fire resistance: 90 minutes integrity / insulation, when tested to BS476: Parts 20&22: 1987
  - Sound insulation (Rw): 63 dB when tested to BS EN 10140-2:2010
  - Impact duty: Severe in accordance with BS5234-2: 1992 Section 1.6.2 & 1.6.3
  - Maximum height & limiting deflection : 4600mm at 600mm centres and 4900mm at 400mm centres, L/240 @ 200 Pascal's - Maximum Height/240 @ uniform distributed load of 0.2kN/m<sup>2</sup>.
  - Partition width: 148mm (excluding finishes)
- Framing:
  - Stud configuration: 70mm Knauf 'C' stud, 0.55 gauge.
  - Centres: 600 mm to suit maximum height. Use Knauf 'C' studs at corners and abutments where required. Reduce stud centres to 400mm for ceramic tiled areas.
  - Resilient bar: Knauf 15mm resilient bar to one side.
  - Head/ Floor channel: Head channel 72 mm Knauf 'U' Channel (utilising 72mm Knauf Deep Flange U Channel if deflection allowance is specified), Floor channel 72 mm Knauf 'U' Channel- Fixing: Knauf Nailable plugs at maximum 600 mm centres. If alternative fixings are required it is the responsibility of the site installation team to ensure all fixings are checked for suitability to the substrate in accordance with the manufacturer's certification and relevant approvals.
- Lining:
  - Type: Two layers of 15mm Knauf Soundshield Plus to each side, for high humidity areas the board is to be changed to 15mm Knauf Performance Plus.
  - Horizontal board joints: Knauf Flat Fixing Plate behind outer layer of plasterboard.
  - Fixings: Knauf Performance Plus screws to be used with Soundshield Plus and Performance Plus to Clause 590 in the Knauf NBS Project Pack.
  - Perimeter Sealing: Two continuous beads of Knauf sealant on Head & Floor channels as clause 515. For fire resistance and deflection head systems: two continuous beads of Knauf intumescent and acoustic mastic applied to head channels as Clause 340 in the Knauf NBS Project Pack.
- Insulation: 25 mm Knauf Earthwool Acoustic Roll
- Head condition: Structural soffit.
- Deflection allowance: 15mm.
- Head track fillets: 2 layers of 15mm Fire Panel.  
Flat Fixing Plate: Knauf flat fixing plate to be installed, refer to Knauf deflection head details.
- Head insulation detail: To suit the Knauf standard detail for a 15mm head deflection
- Finishing: Taped and jointed for a seamless finish using Knauf jointing products as per Clause 471 in the Knauf NBS Project Pack. One coat of Knauf Wallboard Primer applied immediately after taping and jointing. Metal beads and stops in accordance with manufacturer's standard details and specification.  
12mm and 24mm plywood pattering as indicated on the Beech Design and Build Wall Type and Ceiling drawings and as indicated in the NBS Specification Section G20, please note the M&E sub-contractor is to provide further pattering information for M&E as part of their detail design. Where secondary glazing is required a full plywood reveal is required to allow a fixing zone for the secondary glazing and black out blinds. Pattering is to be fixed to the partitions in accordance with the Knauf Standard Details.  
Above every apartment entrance door a builderswork letterbox box detail is to be formed between the door leg to provide a single entry point for services to the apartment, the

letterbox detail will be circa 850 x 350mm which is to be confirmed by the M&E sub-contractor on their builderswork drawings.

Any service penetrations through the partition walls are to be 10mm larger than the service diameter being proposed.

The attached information is to be read in conjunction with the Knauf Project Pack which forms the Construction Information for the Ceiling and Partitions Package.

25 x 50mm 3mm thick steel angle is to abut the head and floor detail of this partition which is only to be fixed into the existing floor and there it interfaces with the partition a non setting acoustic mastic is to be applied, please refer to the partition details for further information.

## 125B PLASTERBOARD PARTITION SYSTEM BEECH WALL TYPE 2

Manufacturer: Knauf.

- Web: [www.knauf.co.uk](http://www.knauf.co.uk).

- Email: [technical@knauf.co.uk](mailto:technical@knauf.co.uk).

- Product reference: Internal walls

Fire resistance: 30 minutes integrity / insulation, when tested to BS476: Parts 20&22: 1987

Sound insulation (Rw): 42 dB when tested to BS EN 10140-2:2010

Impact duty: Heavy in accordance with BS5234-2: 1992 Section 1.6.2 & 1.6.3

Maximum height & limiting deflection : 2800mm at 600mm centres, L/240 @ 200

Pascal's - Maximum Height/240 @ uniform distributed load of 0.2kN/m2.

Partition width: 82mm (excluding finishes)

- Framing:
  - Stud configuration: 70mm Knauf 'C' stud, 0.55 gauge.
  - Centres: 600 mm to suit maximum height. Use Knauf 'C' studs at corners and abutments where required. Reduce stud centres to 400mm for ceramic tiled areas.
  - Resilient bar: Not required.
  - Head/ Floor channel: Head channel 72 mm Knauf 'U' Channel (utilising 72mm Knauf Deep Flange U Channel if deflection allowance is specified), Floor channel 72 mm Knauf 'U' Channel- Fixing: Knauf Nailable plugs at maximum 600 mm centres. If alternative fixings are required it is the responsibility of the site installation team to ensure all fixings are checked for suitability to the substrate in accordance with the manufacturer's certification and relevant approvals.
- Lining:
  - Type: One layer of 15mm Knauf Soundshield Plus to each side, for high humidity areas the board is to be changed to 15mm Knauf Performance Plus.
  - Horizontal board joints: Knauf Flat Fixing Plate behind outer layer of plasterboard.
  - Fixings: Knauf Performance Plus screws to be used with Soundshield Plus and Performance Plus to Clause 590 in the Knauf NBS Project Pack.
  - Perimeter Sealing: Two continuous beads of Knauf sealant on Head & Floor channels as clause 515. For fire resistance and deflection head systems: two continuous beads of Knauf intumescent and acoustic mastic applied to head channels as Clause 340 in the Knauf NBS Project Pack.
- Insulation: 25 mm Knauf Earthwool Acoustic Roll
- Head condition: Structural soffit.
- Deflection allowance: 15mm.
- Head track fillets: 2 layers of 15mm Fire Panel.  
Flat Fixing Plate: Knauf flat fixing plate to be installed, refer to Knauf deflection head details.
- Head insulation detail: To suit the Knauf standard detail for a 15mm head deflection
- Finishing: Taped and jointed for a seamless finish using Knauf jointing products as per Clause 471 in the Knauf NBS Project Pack. One coat of Knauf Wallboard Primer applied immediately after taping and jointing. Metal beads and stops in accordance with manufacturer's standard details and specification.  
12mm and 24mm plywood pattering as indicated on the Beech Design and Build Wall Type and Ceiling drawings and as indicated in the NBS Specification Section G20, please note the M&E sub-contractor is to provide further pattering information for M&E as part of their detail design.  
Pattering is to be fixed to the partitions in accordance with the Knauf Standard Details.  
Any service penetrations through the partition walls are to be 10mm larger than the service diameter being proposed.  
The attached information is to be read in conjunction with the Knauf Project Pack which forms the Construction Information for the Ceiling and Partitions Package.  
Where any walls break the acoustic line of Wall Type 1 a, 25 x 50mm 3mm thick steel angle is to abut the head and floor detail of this partition which is only to be fixed into the

existing floor and there it interfaces with the partition a non setting acoustic mastic is to be applied, please refer to the partition details for further information.

## 125C PLASTERBOARD PARTITION SYSTEM BEECH WALL TYPE 3

Manufacturer: Knauf.

- Web: [www.knauf.co.uk](http://www.knauf.co.uk).

- Email: [technical@knauf.co.uk](mailto:technical@knauf.co.uk).

- Product reference: Service riser

Fire resistance: 90:60 minutes integrity / insulation (from lobby to shaft), when tested to BS476: Parts 20&22: 1987

Sound insulation (Rw): 45 dB when tested to BS EN 10140-2:2010

Impact duty: Severe in accordance with BS5234-2: 1992 Section 1.6.2 & 1.6.3

Maximum height & limiting deflection : 4900mm at 600mm centres, L/240 @ 200

Pascal's - Maximum Height/240 @ uniform distributed load of 0.2kN/m<sup>2</sup>.

Partition width: 87mm (excluding finishes)

- Framing:
  - Stud configuration: 60mm Knauf 'C-T' stud, 0.92 gauge.
  - Centres: 600 mm to suit maximum height. Reduce stud centres to 400mm for ceramic tiled areas.
  - Resilient bar: Not required.
  - Head/ Floor channel: Head channel 62 mm Knauf 'U' Channel (utilising 62mm Knauf Deep Flange U Channel if deflection allowance is specified), Floor channel 62 mm Knauf 'J' Channel
  - Fixing: Knauf Nailable plugs at maximum 600 mm centres. If alternative fixings are required it is the responsibility of the site installation team to ensure all fixings are checked for suitability to the substrate in accordance with the manufacturer's certification and relevant approvals.
- Lining:
  - Type: Two layers of 15mm Knauf Fire Panel to room side and 19mm Knauf Core Board held within the 'C-T' studs on the shaft side, for high humidity areas the board is to be changed to 15MM Knauf Performance Plus.
  - Horizontal board joints: Knauf Flat Fixing Plate behind outer layer of plasterboard.
  - Fixings: Knauf Performance Plus screws to be used with either Knauf Performance Plus / Soundshield to Clause 590 in the Knauf NBS Project Pack.
  - Perimeter Sealing: Two continuous beads of Knauf sealant on Head & Floor channels as clause 515. For fire resistance and deflection head systems: two continuous beads of Knauf intumescent and acoustic mastic applied to head channels as Clause 340 in the Knauf NBS Project Pack.
- Insulation: 25 mm Knauf Earthwool Acoustic Roll
- Head condition: Structural soffit.
- Deflection allowance: 15mm.
- Head track fillets: 2 layers of 15mm Fire Panel.  
Flat Fixing Plate: Knauf flat fixing plate to be installed, refer to Knauf deflection head details.
- Head insulation detail: Knauf Earthwool Building Slab RS60 within the head track
- Finishing: Taped and jointed for a seamless finish using Knauf jointing products as per Clause 471 in the Knauf NBS Project Pack. One coat of Knauf Wallboard Primer applied immediately after taping and jointing. Metal beads and stops in accordance with manufacturer's standard details and specification.  
12mm and 24mm plywood pattering as indicated on the Beech Design and Build Wall Type and Ceiling drawings and as indicated in the NBS Specification Section G20, please note the M&E sub-contractor is to provide further pattering information for M&E as part of their detail design.  
Pattering is to be fixed to the partitions in accordance with the Knauf Standard Details. Above every apartment entrance door a builderswork letterbox box detail is to be formed between the door leg to provide a single entry point for services to the apartment, the letterbox detail will be circa 850 x 350mm which is to be confirmed by the M&E sub-contractor on their builderswork drawings.

Any service penetrations through the partition walls are to be 10mm larger than the service diameter being proposed.

The attached information is to be read in conjunction with the Knauf Project Pack which forms the Construction Information for the Ceiling and Partitions Package.

Where any walls break the acoustic line of Wall Type 1 a, 25 x 50mm 3mm thick steel angle is to abut the head and floor detail of this partition which is only to be fixed into the existing floor and there it interfaces with the partition a non setting acoustic mastic is to be applied, please refer to the partition details for further information.

## 125D PLASTERBOARD PARTITION SYSTEM BEECH WALL TYPE 4

Manufacturer: Knauf.

- Web: [www.knauf.co.uk](http://www.knauf.co.uk).

- Email: [technical@knauf.co.uk](mailto:technical@knauf.co.uk).

- Product reference: Internal boxings and Shower boxings

Fire resistance: N/A

Sound insulation (Rw): N/A

Impact duty: Heavy in accordance with BS5234-2: 1992 Section 1.6.2 & 1.6.3

Maximum height & limiting deflection : 3300mm at 300mm centres, L/240 @ 200

Pascal's - Maximum Height/240 @ uniform distributed load of 0.2kN/m<sup>2</sup>.

Partition width: 62mm (excluding finishes)

- Framing:
  - Stud configuration: 70mm Knauf 'C' stud, 0.55 gauge.
  - Centres: 600 mm to suit maximum height. Use Knauf 'C' studs at corners and abutments where required. Reduce stud centres to 400mm for ceramic tiled areas.
  - Resilient bar: Not required.
  - Head/ Floor channel: Head channel 72 mm Knauf 'U' Channel (utilising 72mm Knauf Deep Flange U Channel if deflection allowance is specified), Floor channel 72 mm Knauf 'U' Channel- Fixing: Knauf Nailable plugs at maximum 600 mm centres. If alternative fixings are required it is the responsibility of the site installation team to ensure all fixings are checked for suitability to the substrate in accordance with the manufacturer's certification and relevant approvals.
- Lining:
  - Type: One layer of 15mm Knauf Fire Panel to room side as decorative lining and one layer of 15mm Knauf performance Plus to room side if Bathroom Boxings. The main soil stacks running in the bathroom boxings are to be wrapped in 25mm Knauf Earthwool Acoustic Roll.
  - Horizontal board joints: Knauf Flat Fixing Plate behind outer layer of plasterboard.
  - Fixings: Knauf Performance Plus screws to be used with Soundsheild Plus and Performance Plus to Clause 590 in the Knauf NBS Project Pack.
  - Perimeter Sealing: Two continuous beads of Knauf sealant on Head & Floor channels as clause 515. For fire resistance and deflection head systems: two continuous beads of Knauf intumescent and acoustic mastic applied to head channels as Clause 340 in the Knauf NBS Project Pack.
- Insulation: 25 mm Knauf Earthwool Acoustic Roll
- Head condition: Structural soffit,  
Deflection allowance: 15mm.
- Head track fillets: 2 layers of 15mm Fire Panel.  
Flat Fixing Plate: Knauf flat fixing plate to be installed, refer to Knauf deflection head details.
- Head insulation detail: To suit the Knauf standard detail for a 15mm head deflection
- Finishing: Taped and jointed for a seamless finish using Knauf jointing products as per Clause 471 in the Knauf NBS Project Pack. One coat of Knauf Wallboard Primer applied immediately after taping and jointing. Metal beads and stops in accordance with manufacturer's standard details and specification.  
12mm and 24mm plywood pattering as indicated on the Beech Design and Build Wall Type and Ceiling drawings and as indicated in the NBS Specification Section G20, please note the M&E sub-contractor is to provide further pattering information for M&E as part of their detail design.  
Patterning is to be fixed to the partitions in accordance with the Knauf Standard Details. Any service penetrations through the partition walls are to be 10mm larger than the service diameter being proposed.  
The attached information is to be read in conjunction with the Knauf Project Pack which forms the Construction Information for the Ceiling and Partitions Package.  
Where any walls break the acoustic line of Wall Type 1 a, 25 x 50mm 3mm thick steel

angle is to abut the head and floor detail of this partition which is only to be fixed into the existing floor and there it interfaces with the partition a non setting acoustic mastic is to be applied, please refer to the partition details for further information.

#### 155A WALL LINING SYSTEM (METAL STUDS) BEECH WALL TYPE 6

- Manufacturer: Knauf.
  - Web: [www.knauf.co.uk](http://www.knauf.co.uk).
  - Email: [technical@knauf.co.uk](mailto:technical@knauf.co.uk).
  - Product reference: Independent wall lining
    - Fire resistance: 60 minutes integrity only when tested to BS476: Parts 20&22: 1987
    - Sound insulation (Rw): N/A
    - Impact duty: Medium in accordance with BS5234-2: 1992 Section 1.6.2 & 1.6.3
    - Maximum height : 3100mm at 600mm centres
    - Limiting deflection :  $L/240 @ 200 \text{ Pascal's}$  - Maximum Height/240 @ uniform distributed load of  $0.2\text{kN/m}^2$ .
    - Lining width: 90mm (excluding finishes).

##### Framing:

- Stud configuration: [70mm Knauf 'C' stud, 0.55 gauge].
- Centres: [600 mm to suit maximum height, reduce stud centres to 400mm for ceramic tiled areas].
- Head/ Floor channel: Head channel 72 mm Knauf 'U' Channel (utilising 52mm Knauf Deep Flange U Channel if deflection allowance is specified), Floor channel 72 mm Knauf 'U' Channel-
  - Fixing: Knauf Nailable plugs at maximum 600 mm centres. If alternative fixings are required it is the responsibility of the site installation team to ensure all fixings are checked for suitability to the substrate in accordance with the manufacturer's certification and relevant approvals.

##### Lining:

- Type: Two layers of 15 mm Knauf Soundshield Plus to one side, in high humidity areas the boards are to be replaced with Knauf Performance Plus.
- Horizontal board joints: Knauf Flat Fixing Plate behind outer layer of plasterboard.
- Fixings: [Knauf Performance Plus screws to be used with either Knauf Performance Plus / Soundshield as Clause 590 in the Knauf NBS Project Pack].
- Perimeter Sealing: [Two continuous beads of Knauf sealant on Head & Floor channels as clause 515. For fire resistance and deflection head systems: two continuous beads of Knauf intumescent and acoustic mastic applied to head channels as Clause 340 in the Knauf NBS Project Pack].

Insulation: 75mm Knauf Earthwool RW45 Slab. All window reveals are to be packed with 25mm Knauf Earthwool Acoustic Roll as NBS Clause P10/125E prior to the plasterboard being fixed back to the window reveal framework.

Vapour Layer: Visqueen vapour check as NBS Clause P10/310A.

Head condition: Structural soffit.

Deflection allowance: [15mm].

Head track fillets: [2 layers of 15mm Fire Panel].

Flat Fixing Plate: Knauf flat fixing plate to be installed, refer to Knauf deflection head details.

Head insulation detail: [To suit the Knauf standard detail for a 15mm head deflection]

Finishing: [Taped and jointed for a seamless finish using Knauf jointing products as per Clause 471 in the Knauf NBS Project Pack. One coat of Knauf Wallboard Primer applied immediately after taping and jointing. Metal beads and stops in accordance with manufacturer's standard details and specification].

12mm and 18mm plywood pattressing as indicated on the Beech Design and Build Wall Type and Ceiling drawings and as indicated in the NBS Specification Section G20, please note the M&E sub-contractor is to provide further pattressing information for M&E as part of their detail design.

Where secondary glazing is required a full plywood reveal is required to allow a fixing zone for the secondary glazing and black out blinds. All window reveals will require the corner studs to be installed with infill timbers prior to any pattressing and plasterboarding to be installed in order that there is a robust fixing point for the secondary glazing.

Pattressing is to be fixed to the partitions in accordance with the Knauf Standard Details. Any service penetrations through the partition walls are to be 10mm larger than the service diameter being proposed.

The attached information is to be read in conjunction with the Knauf Project Pack which forms the Construction Information for the Ceiling and Partitions Package.

Where any walls break the acoustic line of Wall Type 1 a, 25 x 50mm 3mm thick steel angle is to abut the head and floor detail of this partition which is only to be fixed into the existing floor and there it interfaces with the partition a non setting acoustic mastic is to be applied, please refer to the partition details for further information.

#### 155B WALL LINING SYSTEM (METAL STUDS) BEECH WALL TYPE 7

- Manufacturer: Knauf.

- Web: [www.knauf.co.uk](http://www.knauf.co.uk).

- Email: [technical@knauf.co.uk](mailto:technical@knauf.co.uk).

- Product reference: Column and beam encasements.

Fire resistance: 60 minutes loadbearing capacity when tested to BS476: Parts 21: 1987, The Beech Design & Build Dry Lining Department are to review the existing and new steelwork on site to ensure the fire resistance is achieved in accordance with the Hydrock Fire Strategy.

HP/A-1: 260 maximum

Framing:

Channel configuration: Knauf 'C' Channels clipped vertically to Knauf Fixing Clips.

Fixing Clips Knauf Fixing Clips installed at maximum 1000mm centres to each column/beam flange.

Channel support: Knauf Perimeter Support 'U' Channel.

Fixings into substrates: Knauf Nailable plugs at maximum 600mm centres. Where alternative fixings are used to meet performance constraint confirmation is required from supplier.

Linings:

Type: Two layers of 15mm Fire Panel to around structural column or beam. Use 15mm Knauf Performance Plus in high humidity environments.

Horizontal board joints: Knauf Flat Fixing Plate behind outer layer of plasterboard.

Fixings: Knauf Drywall Screws fixed at maximum 200mm centres as clause 590 in the Knauf NBS Project Pack . Knauf Drywall Performance Plus screws to be used with Knauf Performance Plus boards.

Perimeter Sealing: Two continuous beads of Knauf sealant on Head & Floor channels as clause 515. For fire resistance and deflection head systems: two continuous beads of Knauf intumescent and acoustic mastic applied to head channels as Clause 340 in the Knauf NBS Project Pack.

Finishing: [Taped and jointed for a seamless finish using Knauf jointing products as per Clause 471 in the Knauf NBS Project Pack. One coat of Knauf Wallboard Primer applied immediately after taping and jointing. Metal beads and stops in accordance with manufacturer's standard details and specification].

12mm and 24mm plywood pattressing as indicated on the Beech Design and Build Wall Type and Ceiling drawings and as indicated in the NBS Specification Section G20, please note the M&E sub-contractor is to provide further pattressing information for M&E as part of their detail design.

Pattressing is to be fixed to the partitions in accordance with the Knauf Standard Details. Any service penetrations through the partition walls are to be 10mm larger than the service diameter being proposed.

The attached information is to be read in conjunction with the Knauf Project Pack which forms the Construction Information for the Ceiling and Partitions Package.

Where any walls break the acoustic line of Wall Type 1 a, 25 x 50mm 3mm thick steel angle is to abut the head and floor detail of this partition which is only to be fixed into the existing floor and there it interfaces with the partition a non setting acoustic mastic is to be applied, please refer to the partition details for further information.

175A WALL LINING SYSTEM (METAL FURRINGS) BEECH WALL TYPE 5

- Manufacturer: Knauf.
    - Web: [www.knauf.co.uk](http://www.knauf.co.uk).
    - Email: [technical@knauf.co.uk](mailto:technical@knauf.co.uk).
    - Product reference: Wall linings
- Fire resistance: 60 minutes to the existing structure which is provide via a fire engineered solution from Hydrock Fire
- Sound insulation (Rw): N/A
- Impact duty: Medium in accordance with BS5234-2: 1992 Section 1.6.2 & 1.6.3
- Maximum height & limiting deflection : 4000mm - C Channles 600mm centres & U brackets at 900mm vertical centres, 6000mm - C Channels 400mm centres & U brackets at 600mm vertical centres, 8000mm - C Channels 300mm centres & U brackets at 300mm vertical centres
- Lining width: 45mm (excluding finishes), currently it has been assumed a cavity of 30mm will be required for the service distribution, prior to commencing the setting out the installtion team are to verify the clear cavity width required by the M&E Sub-contractor.

Framing:

- Channel Centres: [Knauf 'C' channels at centres to suit maximum height but must not exceed 600mm centres. Reduce channel centres to 400mm maximum for areas to recieve a ceramic tiled finish when using Knauf plasterboard].
  - Mounting Brackets: Knauf Universal bracket at maximum 900mm centres fixed back to the existing substrate.
  - Head/ Floor channel: Knauf 'U' channel - perimeter support
- Fixing: Knauf Nailable plugs at maximum 600 mm centres. If alternative fixings are required it is the responsibilty of the site insstalltion team to ensure all fixings are checked for suitability to the substrate in accordance with the manufacturer's certification and relevant approvals.

Lining:

- Type: One layer of 15 mm Knauf Fire Panel to one side. Use 15mm Knauf Performance Plus in high humidity environments.
- Horizontal board joints: Knauf Flat Fixing Plate behind outer layer of plasterboard.
- Fixings: [Knauf drywall screws to be used as Clause 590 in the Knauf NBS Project Pack].
- Perimeter Sealing: [Two continuous beads of Knauf sealant on Head & Floor channels as clause 515. For fire resistance and deflection head systems: two continuous beads of Knauf intumescent and acoustic mastic applied to head channels as Clause 340 in the Knauf NBS Project Pack].

Insulation: Not required.

Head condition: Structural timber soffit.

Deflection allowance: [15mm].

Head track fillets: [2 layers of 15mm Fire Panel].

Flat Fixing Plate: Knauf flat fixing plate to be installed, refer to Knauf deflection head details.

Head insulation detail: [To suit the Knauf standard detail for a 15mm head deflection]

Finishing: [Taped and jointed for a seamless finish using Knauf jointing products as per Clause 471 in the Knauf NBS Project Pack. One coat of Knauf Wallboard Primer applied immediately after taping and jointing. Metal beads and stops in accordance with manufacturer's standard details and specification].

12mm and 24mm plywood pattressing as indicated on the Beech Design and Build Wall Type and Ceiling drawings and as indicated in the NBS Specification Section G20, please note the M&E sub-contractor is to provide further pattressing information for M&E as part of their detail design.

Pattressing is to be fixed to the partitions in accordance with the Knauf Standard Details. Any service penetrations through the partition walls are to be 10mm larger than the service diameter being proposed.

The attached information is to be read in conjunction with the Knauf Project Pack which forms the Construction Information for the Ceiling and Partitions Package.

Where any walls break the acoustic line of Wall Type 1 a, 25 x 50mm 3mm thick steel angle is to abut the head and floor detail of this partition which is only to be fixed into the existing floor and there it interfaces with the partition a non setting acoustic mastic is to be applied, please refer to the partition details for further information.

#### 175B WALL LINING SYSTEM (METAL FURRINGS) BEECH WALL TYPE 10

- Manufacturer: Knauf.
  - Web: [www.knauf.co.uk](http://www.knauf.co.uk).
  - Email: [technical@knauf.co.uk](mailto:technical@knauf.co.uk).
  - Product reference: Curtain wall linings
  - Fire resistance: N/A
  - Sound insulation (Rw): N/A
  - Impact duty: Medium in accordance with BS5234-2: 1992 Section 1.6.2 & 1.6.3
  - Maximum height & limiting deflection : 4000mm - C Channels 600mm centres & U brackets at 900mm vertical centres, 6000mm - C Channels 400mm centres & U brackets at 600mm vertical centres, 8000mm - C Channels 300mm centres & U brackets at 300mm vertical centres

##### Framing:

- Channel Centres: [Refer to wall type details for metal framework details].
  - Mounting Brackets: Refer to wall type details for metal framework detail.
  - Head/ Floor channel: Refer to wall type details for metal framework detail.
- Fixing: Knauf Nailable plugs at maximum 600 mm centres. If alternative fixings are required it is the responsibility of the site installation team to ensure all fixings are checked for suitability to the substrate in accordance with the manufacturer's certification and relevant approvals.

##### Lining:

- Type: Two layer of 15 mm Knauf Soundshield Plus to one side. Replace outer layer with 15mm Knauf Performance Plus in high humidity environments.
- Horizontal board joints: Knauf Flat Fixing Plate behind outer layer of plasterboard.
- Fixings: [Knauf drywall screws to be used as Clause 590 in the Knauf NBS Project Pack].
- Perimeter Sealing: [Two continuous beads of Knauf sealant on Head & Floor channels as clause 515. For fire resistance and deflection head systems: two continuous beads of Knauf intumescent and acoustic mastic applied to head channels as Clause 340 in the Knauf NBS Project Pack].

Insulation: Refer to wall type details for insulation details

Head condition: Structural timber soffit.

Deflection allowance: [15mm].

Head track fillets: [2 layers of 15mm Fire Panel].

Flat Fixing Plate: Knauf flat fixing plate to be installed, refer to Knauf deflection head details.

Head insulation detail: [To suit the Knauf standard detail for a 15mm head deflection]

Finishing: [Taped and jointed for a seamless finish using Knauf jointing products as per Clause 471 in the Knauf NBS Project Pack. One coat of Knauf Wallboard Primer applied immediately after taping and jointing. Metal beads and stops in accordance with manufacturer's standard details and specification].

12mm and 24mm plywood pattressing as indicated on the Beech Design and Build Wall Type and Ceiling drawings and as indicated in the NBS Specification Section G20, please note the M&E sub-contractor is to provide further pattressing information for M&E as part of their detail design.

Pattressing is to be fixed to the partitions in accordance with the Knauf Standard Details. Any service penetrations through the partition walls are to be 10mm larger than the service diameter being proposed.

The attached information is to be read in conjunction with the Knauf Project Pack which forms the Construction Information for the Ceiling and Partitions Package.

Where any walls break the acoustic line of Wall Type 1 a, 25 x 50mm 3mm thick steel angle is to abut the head and floor detail of this partition which is only to be fixed into the existing floor and there it interfaces with the partition a non setting acoustic mastic is to be applied, please refer to the partition details for further information.

#### 175C WALL LINING SYSTEM (METAL FURRINGS) BEECH WALL TYPE 9

- Manufacturer: Knauf.
  - Web: [www.knauf.co.uk](http://www.knauf.co.uk).
  - Email: [technical@knauf.co.uk](mailto:technical@knauf.co.uk).
  - Product reference: Skywell wall linings
  - Fire resistance: In accordance with the Hydrock Fire Strategy
  - Sound insulation (Rw): In accordance with the Sandy Brown Fire Strategy
  - Impact duty: Medium in accordance with BS5234-2: 1992 Section 1.6.2 & 1.6.3
  - Maximum height & limiting deflection : 4000mm - C Channels 600mm centres & U brackets at 900mm vertical centres, 6000mm - C Channels 400mm centres & U brackets at 600mm vertical centres, 8000mm - C Channels 300mm centres & U brackets at 300mm vertical centres

##### Framing:

- Channel Centres: [Refer to Skywell drawings for framework details].
- Mounting Brackets: Refer to Skywell drawings for framework details.
- Head/ Floor channel: Refer to Skywell drawings for framework details.
- Fixing: Knauf Nailable plugs at maximum 600 mm centres. If alternative fixings are required it is the responsibility of the site installation team to ensure all fixings are checked for suitability to the substrate in accordance with the manufacturer's certification and relevant approvals.

##### Lining:

- Type: One layer of 12.5 mm Knauf Aqua Panel Cement Board and One layer of 10mm Rockpanel Ply as NBS Clause H20/150A, for further details please refer to Skywell drawings for framework details.
- Horizontal board joints: To Knauf standard details.
- Fixings: [Knauf drywall screws to be used as Clause 590 in the Knauf NBS Project Pack].
- Perimeter Sealing: [To Knauf standard details.].
- Insulation: 100mm Knauf Earthwool RW45 Slab.
- Vapour Layer: Tyvek membrane check as NBS Clause P10/310B.

220A PROPRIETARY SUSPENDED CEILING SYSTEM BEECH CEILING TYPE 1

Manufacturer: Knauf.

- Web: [www.knauf.co.uk](http://www.knauf.co.uk).
- Email: [technical@knauf.co.uk](mailto:technical@knauf.co.uk).
- Product reference: Apartment Bathroom Ceilings.
- Lining board: One layer of 15mm Knauf Performance Plus.
  - Finishing: Taped and jointed for a seamless finish using Knauf jointing products as per Clause 471 in the Knauf NBS Project Pack. One coat of Knauf Wallboard Primer applied immediately after taping and jointing.
  - Accessories: Metal beads/ stops recommended by lining board manufacturer.
- Suspension system:
  - Grid centres: As indicated within the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.
  - Hangers: As indicated within the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.  
Length: Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.  
Centres: Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.  
Top fixing: To suit structural soffit of Timber Floor.
- Insulation: Mineral wool to BS EN 13162; density (minimum) 10.5 kg/m<sup>3</sup> Knauf Earth Roll Insulation.
  - Thickness: 50mm.
- Access units: Not required.
- Integrated services fittings: None.
- Electrical continuity and earth bonding: Not required.
- Accessories/ Other requirements: 12mm and 18 mm plywood pattressing as indicated on the Beech Design & Build Partition Type Drawings and NBS Section G20, please note the M&E Consultant is to provide further pattressing information for the M&E installation on completion of there design submission. The attached information is to be read in conjunction with the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack. For the build up of the Ceilings please refer to Ceiling Drawings

220B PROPRIETARY SUSPENDED CEILING SYSTEM BEECH CEILING TYPE 2

Manufacturer: Knauf.

- Web: [www.knauf.co.uk](http://www.knauf.co.uk).
- Email: [technical@knauf.co.uk](mailto:technical@knauf.co.uk).
- Product reference: Fourth Floor Fire Rated Ceiling To achieve a 60 Minute Fire Rating  
Lining board: [Two layers of 15mm Knauf Fire Panel fixed to Knauf MF5 Ceiling System which is to be hung from the timber ceiling / floor joists].
- Finishing: [Taped and jointed for a seamless finish using Knauf jointing products as per Clause 471 in the Knauf NBS Project Pack. One coat of Knauf Wallboard Primer applied immediately after taping and jointing].
- Accessories: [Metal beads/ stops recommended by lining board manufacturer].  
Insulation: [Mineral wool to BS EN 13162; density (minimum) 45 kg/m<sup>3</sup> Knauf RS45 Slab Insulation as NBS Clause P10/125A].
- Thickness: [100 mm].  
Access units: [Not Required].
- Suspension system:
  - Grid centres: As indicated within the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.
  - Hangers: As indicated within the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.  
Length: As indicated within the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.  
Centres: As indicated within the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.  
Top fixing: To suit structural soffit of To be hung from the Fifth Floor Ceiling Joists.
- Access units: Not required.
- Integrated services fittings: None.
- Electrical continuity and earth bonding: Required.
- Accessories/ Other requirements: 12mm and 18 mm plywood pattressing as indicated on the Beech Design & Build Partition Type Drawings and NBS Section G20, please note the M&E sub-contractor is to provide further pattressing information for the M&E installation on completion of there design submission. The attached information is to be read in conjunction with the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack. For the build up of the Ceilings please refer to Ceiling Drawings

## 220C PROPRIETARY SUSPENDED CEILING SYSTEM BEECH CEILING TYPE 7

Manufacturer: Knauf.

- Web: [www.knauf.co.uk](http://www.knauf.co.uk).
- Email: [technical@knauf.co.uk](mailto:technical@knauf.co.uk).
- Product reference: Basement Amenity Fire Rated Ceiling To achieve a 60 Minute Fire Rating
  - Lining board: [One layer of 15mm Knauf Performance Plus fixed to Knauf MF Ceiling System which is to be hung from the concrete floor].
- Finishing: [Taped and jointed for a seamless finish using Knauf jointing products as per Clause 471 in the Knauf NBS Project Pack. One coat of Knauf Wallboard Primer applied immediately after taping and jointing].
- Accessories: [Metal beads/ stops recommended by lining board manufacturer].
- Insulation: [Not Required].
- Thickness: [Not Required].
- Access units: [Not Required].
- Suspension system:
  - Grid centres: As indicated within the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.
  - Hangers: As indicated within the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.
    - Length: As indicated within the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.
    - Centres: As indicated within the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.
  - Top fixing: To suit structural soffit of To be hung from the Fifth Floor Ceiling Joists.
- Access units: Not required.
- Integrated services fittings: None.
- Electrical continuity and earth bonding: Required.
- Accessories/ Other requirements: 12mm and 18 mm plywood pattressing as indicated on the Beech Design & Build Partition Type Drawings and NBS Section G20, please note the M&E sub-contractor is to provide further pattressing information for the M&E installation on completion of there design submission. The attached information is to be read in conjunction with the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack. For the build up of the Ceilings please refer to Ceiling Drawings

Knauf MF Ceiling Suspension System, which will require to be fixed into the 8mm Tanking membrane in accordance with the Specialist Tanking Sub-contractors details and specification.

## 220D PROPRIETARY SUSPENDED CEILING SYSTEM BEECH CEILING TYPE 5

Manufacturer: Knauf.

- Web: [www.knauf.co.uk](http://www.knauf.co.uk).
- Email: [technical@knauf.co.uk](mailto:technical@knauf.co.uk).
- Product reference: Fifth Floor Ceiling
  - Lining board: [Two layers of 15mm Knauf Fire Panel fixed to Knauf MF5 Ceiling System which is to be hung from the timber ceiling / floor joists].
- Finishing: [Taped and jointed for a seamless finish using Knauf jointing products as per Clause 471 in the Knauf NBS Project Pack. One coat of Knauf Wallboard Primer applied immediately after taping and jointing].
- Accessories: [Metal beads/ stops recommended by lining board manufacturer].
  - Insulation: [Mineral wool to BS EN 13162; density (minimum) 45 kg/m<sup>3</sup> Knauf RS45 Slab Insulation as NBS Clause P10/125A].
- Thickness: [100 mm].
  - Access units: [Not Required].
- Suspension system:
  - Grid centres: As indicated within the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.
  - Hangers: As indicated within the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.
    - Length: As indicated within the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.
    - Centres: As indicated within the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack.
  - Top fixing: To suit structural soffit of To be hung from the Fifth Floor Roof Joists.
- Access units: Not required.
- Integrated services fittings: None.
- Electrical continuity and earth bonding: Required.
- Accessories/ Other requirements: 12mm and 18 mm plywood pattressing as indicated on the Beech Design & Build Partition Type Drawings and NBS Section G20, please note the M&E sub-contractor is to provide further pattressing information for the M&E installation on completion of there design submission. The attached information is to be read in conjunction with the Knauf Project Pack which forms the Construction Information for the Ceiling and Partition Pack. For the build up of the Ceilings please refer to Ceiling Drawings

### 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

### 430A ACCESS PANEL FOR WALLS & CEILINGS

- Manufacturer: Profab Access Ltd.
  - Web: [www.profabaccess.com](http://www.profabaccess.com).
  - Email: [technical@profabaccess.com](mailto:technical@profabaccess.com).
  - Product reference: 1000 Series Non Fire Rated Metal Access Panel
- Size: 600 x 600 mm.
- Configuration: Single Door (SD).
- Lock type: Security lock (SL).
- Frame type: Picture (PF).
- Acoustic rating: Rw30dB.
- Finish: RAL 9010M.

The exact locations are to be finalised by the M&E Consultant as part of the detail design and co-ordination of the M&E services.

### 430B ACCESS PANEL FOR M&E RODDING ACCESS

- Manufacturer: Profab Access Ltd.
  - Web: [www.profabaccess.com](http://www.profabaccess.com).
  - Email: [technical@profabaccess.com](mailto:technical@profabaccess.com).
  - Product reference: 1000 Series Non Fire Rated Metal Access Panel
- Size: 300 x 300 mm.
- Configuration: Single Door (SD).
- Lock type: Security lock (SL).
- Frame type: Picture (PF).
- Acoustic rating: Rw30dB.
- Finish: RAL 9010M.

The exact locations are to be finalised by the M&E Consultant as part of the detail design and co-ordination of the M&E services.

### 430C ACCESS PANEL FOR WALLS & CEILINGS

- Manufacturer: Profab Access Ltd.
  - Web: [www.profabaccess.com](http://www.profabaccess.com).
  - Email: [technical@profabaccess.com](mailto:technical@profabaccess.com).
  - Product reference: 1000 Series Fire Rated Metal Access Panel
- Size: 600 x 600 mm.
- Configuration: Single Door (SD).
- Fire rating: 1 hour.
- Lock type: Security lock (SL).
- Frame type: Picture (PF).
- Finish: RAL 9010M.

The exact locations are to be finalised by the M&E Consultant as part of the detail design and co-ordination of the M&E services.

#### 430D ACCESS PANEL FOR M&E RODDING ACCESS

- Manufacturer: Profab Access Ltd.
  - Web: [www.profabaccess.com](http://www.profabaccess.com).
  - Email: [technical@profabaccess.com](mailto:technical@profabaccess.com).
  - Product reference: 1000 Series Fire Rated Metal Access Panel
- Size: 300 x 300 mm.
- Configuration: Single Door (SD).
- Fire rating: 1 hour.
- Lock type: Security lock (SL).
- Frame type: Picture (PF).
- Finish: RAL 9010M.

The exact locations are to be finalised by the M&E Consultant as part of the detail design and co-ordination of the M&E services.

#### 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.

#### 475 METAL FURRINGS FOR WALL LININGS

- Setting out: Accurately aligned and plumb.
  - Vertical furring positions: Equal vertical centres to suit specified linings, maintaining sequence across openings. Position adjacent to angles and openings.
  - Additional vertical furrings: To support vertical edges of boards and at junctions with partitions.
  - Horizontal furring positions: To provide continuous support to edges of boards.
- Adhesive bedding to furrings:
  - Dabs: Length 200 mm (minimum). Located at ends of furrings and thereafter at 450 mm (maximum) centres.
  - Junctions with partitions: Continuous bed with no gaps across cavity.

#### 485 SUSPENDED CEILING GRIDS

- Setting out: Accurately aligned and level.
  - Grid members and hangers: Centres to suit specified linings and imposed loads.
  - Additional grid members: Provide bracing and stiffening at upstands, partition heads, access hatches, etc.
- Fixing: Securely at perimeters, grid joints, top and bottom hanger fixings.

#### 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.

#### 545 CAVITY FIRE BARRIERS WITHIN SUSPENDED CEILINGS

- Type: As recommended by board manufacturer to meet specified, however it is envisaged that all partitions will abut the underside of the compartment floors..
- Fire resistance: To be in accordance with the Beech Design & Build Fire Plans and the Hydrock Fire Strategy.
- Ceiling void subdivision: Fix barriers in accordance with the Hydrock Fire Strategy and Building Regulations Approved Documents.
- 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.

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.

610 FIXING GYPSUM BOARD TO TIMBER

- Fixing to timber: Securely at the following centres (maximum):
  - Nails: 150 mm.
  - Screws to partitions/ wall linings: 300 mm. Reduce to 200 mm at external angles.
  - Screws to ceilings: 230 mm.
- Position of nails/ screws from edges of boards (minimum):
  - Bound edges: 10 mm.
  - Cut/ unbound edges: 13 mm.
- Position of nails/ screws from edges of timber supports (minimum): 6 mm.

620 FIXING GYPSUM BOARD WITH ADHESIVE DABS

- Setting out boards: Accurately aligned and plumb.
  - Fixing to substrates: Securely using adhesive dabs.
  - Adhesive dab spacings for each board:
    - Horizontally: One row along top edge and one continuous dab along bottom edge.
    - Vertically: One row along each edge and thereafter at intermediate spacings to suit size of board:
- | Thickness (mm) | Width (mm) | Dab centres (mm) |
|----------------|------------|------------------|
| 9.5            | 1200       | 400              |
| 9.5/12.5       | 900        | 450              |
| 12.5           | 1200       | 600              |
- Adhesive dab dimensions (width x length): At least 50-75 mm x 250 mm.
    - Position of dabs from edges/ ends of boards (minimum): 25 mm.

## **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.

### **680A THISTLE MULTI FINISH**

- Manufacturer: British Gypsum.
  - Web: [www.british-gypsum.com](http://www.british-gypsum.com).
  - Email: [bgtechnical.enquiries@bpb.com](mailto:bgtechnical.enquiries@bpb.com).
  - Product reference: Thistle Multi Finish

### **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.