



Hampshire County Council



Hampshire
County Council

Property Services

Victoria House - Netley Support Headquarters - Fire Alarm and Lighting Replacement

Victoria House Specification

31-03-2025



Client:

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Client:

K10

Gypsum board dry linings/ partitions/ ceilings

Types of dry lining

220 Proprietary suspended ceiling system

1. Standard: To BS EN 13964.
2. Evidence of compliance: Submit Declaration of Performance (DoP).
3. Manufacturer: Submit proposals
 - 3.1. Product reference: Submit proposals
4. Fire performance
 - 4.1. Reaction to fire: To BS EN 13501-1, class B-s3, d2 or better
 - 4.2. Fire resistance of complete wall lining assembly: To BS EN 13501-2. EI 60 or better
 - 4.3. Cavity fire barriers: As per P10/410 Flexible cavity barriers
5. Lining board: Two layers 12.5 mm gypsum plaster board
6. Suspension system
 - 6.1. Grid centres: Primary grid centres 1200 mm; Secondary grid centres 450 mm
 - 6.2. Hangers: Type recommended by board manufacturer
 - 6.2.1. Centres: 1200 mm
 - 6.2.2. Top fixing: To suit structural soffit of timber joists.
7. Insulation: Not required

General/ preparation

335 Additional supports

1. Framing: Accurately position and securely fix to give full support to:
 - 1.1. Partition heads running parallel with, but offset from main structural supports.
 - 1.2. Fixtures, fittings and service outlets. Mark framing positions clearly and accurately on linings.
 - 1.3. Board edges and lining perimeters, as recommended by board manufacturer to suit type and performance of lining.

Components

400 Gypsum boards generally

1. Standard
 - 1.1. Gypsum plasterboard to BS EN 520.
 - 1.2. Gypsum fibre board to BS EN 15283-2.
 - 1.3. Evidence of compliance: Submit Declaration of Performance (DoP).

401 Gypsum plasterboard

1. Type: To BS EN 520, type A
2. Core density (minimum): 650 kg/m³.
3. Reaction to fire: Class A2-s1, d0 or better



Client:

4. Exposed surface and edge profiles: Clean and undamaged

404 Gypsum plasterboard (improved fire protection)

1. Type: To BS EN 520, type F
2. Core: Including fibres and/ or other additives for improved cohesion.
 - 2.1. Density (minimum): 800 kg/m³.
3. Reaction to fire: Class A2-s1, d0 or better
4. Exposed surface and edge profiles: Clean and undamaged

430 Access panels

1. Description: TO SUSPENDED CEILING K10/220
2. Type: 60 minutes fire protection to BS EN 13501-2
 - 2.1. Sizes: 450 x 450 mm
 - 2.2. Fire performance
 - 2.2.1. Reaction to fire: To BS EN 13501-1, class B-s3, d2 or better
 - 2.2.2. Fire resistance: To BS EN 13501-2. REI 60 or better
3. Frame: Exposed picture frame type
4. Panel: Metal with powder coated factory finish

Installation

435 Dry linings generally

1. General: Use fixing, jointing, sealing and finishing materials, components and installation methods recommended by board manufacturer.
2. Cutting gypsum boards: Neatly and accurately without damaging core or tearing paper facing.
 - 2.1. Cut edges: Minimize and position at internal angles wherever possible. Mask with bound edges of adjacent boards at external corners.
3. Fixings boards: Securely and firmly to suitably prepared and accurately levelled backgrounds.
4. Finishing: Neatly to give flush, smooth, flat surfaces free from bowing and abrupt changes of level.

445 Ceilings

1. Sequence: Fix boards to ceilings before installing dry lined walls and partitions.
2. Orientation of boards: Fix with bound edges at right angles to supports and with ends staggered in adjacent rows.
3. Two layer boarding: Stagger joints between layers.

455 Metal framing for partitions/ wall linings

1. Setting out: Accurately aligned and plumb.
 - 1.1. Frame/ Stud positions: Equal centres to suit specified linings, maintaining sequence across openings.
 - 1.2. Additional studs: To support vertical edges of boards.
2. Fixing centres at perimeters (maximum): 600 mm.
3. Openings: Form accurately.
 - 3.1. 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.



Client:

3.2. Services penetrations: Allow for associated fire-stopping.

485 Suspended ceiling grids

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

510 Sealing gaps and air paths

1. Location of sealant: To perimeter abutments and around openings.
 - 1.1. Pressurized shafts and ducts: At board-to-board and board-to-metal frame junctions.
2. Application: To clean, dry and dust free surfaces as a continuous bead with no gaps.
 - 2.1. 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

1. Metal framed systems
 - 1.1. Material: Wire-reinforced mineral wool 50 mm (minimum) thick
 - 1.2. Installation: Form accurately and fix securely with no gaps to provide a complete barrier to smoke and flame.
2. Adhesive fixed wall lining systems
 - 2.1. Material: Adhesive compound.
 - 2.2. Installation: Form in a continuous line with no gaps to provide a complete barrier to smoke and flame.

555 Fire-stopping at perimeters of dry lining systems

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

560 Joints between boards

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

565 Vertical joints

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

570 Horizontal joints

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



Client:

2. Two layer boarding: Stagger joints between layers by at least 600 mm.
3. Edges of boards: Support using additional framing.
 - 3.1. Two layer boarding: Support edges of outer layer.

590 Fixing gypsum board to metal framing/ Furrings

1. Partitions/ Wall linings: Fix securely and firmly at the following centres (maximum):
 - 1.1. Single layer boarding: To all framing at 300 mm centres. Reduce to 200 mm centres at external angles.
 - 1.2. Multi-layer boarding: Face layer at 300 mm centres, and previous layers around perimeters at 300 mm centres.
2. Ceilings: 230 mm. Reduce to 150 mm at board ends and at lining perimeters.
3. Position of screws from edges of boards (minimum): 10 mm.
 - 3.1. Screw heads: Set in a depression. Do not break paper or gypsum core.

Finishing

650 Level of dry lining across joints

1. Sudden irregularities: Not permitted.
2. 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.
 - 2.1. Tapered edge joints
 - 2.1.1. Permissible deviation (maximum) across joints when measured with feet resting on boards: 3 mm.
 - 2.2. External angles
 - 2.2.1. Permissible deviation (maximum) for both faces: 4 mm.
 - 2.3. Internal angles
 - 2.3.1. Permissible deviation (maximum) for both faces: 5 mm.

725 Repairs to existing gypsum board

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

Ω End of Section



Client:

K40

Demountable suspended ceilings

Types of ceiling system

115 Demountable suspended ceiling grids Type A

1. Description: TO LECTURE THEATRE AND CLASSROOMS
2. Ceiling system manufacturer: [Zentia](#)
 - 2.1. Contact details
 - 2.1.1. Address: Zentia
Kingsway South
Team Valley
Gateshead
United Kingdom
NE11 0SP
 - 2.1.2. Telephone: [+44 \(0\)191 497 1000](tel:+44(0)1914971000)
 - 2.1.3. Web: <https://www.zentia.com>
 - 2.1.4. Email: info@zentia.com
 - 2.2. Product reference: [Aruba dB \(Tegular24 edge infills\)](#)
3. Ceiling support: Gridline 24 joggled/butt cut, Global White.
4. Ceiling units: 600 x 600 x 19 mm tegular edge mineral tiles in Global White (5479M).
5. Weight: Infill units: 7.9 kg/m².
6. Reaction to fire: To EN 13501-1, infill units: Euroclass A2-s1, d0; support grid: Euroclass A1.
7. Sound attenuation: Infill units: Dnfw = 39 dB.
8. Sound absorption: Infill units: α_w = 0.60; Class C.
9. Noise reduction coefficient: Infill units: 0.55.
10. Weighted sound reduction index, R_w : Infill units: 20 dB.
11. Colour (Light reflectance value (LRV): Infill units: 85%.
12. VOC emissions: Infill units: The VOC emission performance in accordance with the French labelling requirements: A+.
13. Formaldehyde emissions: Infill units: To EN 13964, formaldehyde emission level E1 = Best test result possible.
14. RelativeHumidity: Infill units: 95%.

115 Modular suspended ceiling systems Type B

1. Ceiling system manufacturer: [Zentia](#)
 - 1.1. Contact details
 - 1.1.1. Address: Zentia
Kingsway South
Team Valley
Gateshead
United Kingdom
NE11 0SP
 - 1.1.2. Telephone: [+44 \(0\)191 497 1000](tel:+44(0)1914971000)
 - 1.1.3. Web: <https://www.zentia.com>



Client:

- 1.1.4. Email: info@zentia.com
- 1.2. Product reference: [Aruba \(Tegular24 edge infills\)](#)
- 2. Ceiling support: Gridline 24 joggled/butt cut, Global White.
- 3. Ceiling units: 600 x 600 x 15 mm tegular edge mineral tiles.
- 4. Infill colour: Global white.
- 5. Weight: Infill units: 3.6 kg/m².
- 6. Reaction to fire: To EN 13501-1, infill units: Euroclass A2-s1, d0; support grid: Euroclass A1.
- 7. Sound absorption: Infill units: $\alpha_w = 0.60$; Class C.
- 8. Sound attenuation: Infill units: $D_{nfw} = 34$ dB.
- 9. Noise reduction coefficient: Infill units: 0.55.
- 10. VOC emissions: Infill units: The VOC emission performance in accordance with the French labelling requirements: A.
- 11. Formaldehyde emissions: Infill units: To EN 13964, formaldehyde emission level E1 = Best test result possible.
- 12. RelativeHumidity: Infill units: 95%.

135 Board-suspended ceiling system

- 1. Description: To G-040 Duke Room
- 2. Standard: To BS EN 13964.
- 3. Evidence of compliance: All ceilings kits to be UKCA/ UKNI/ CE marked. Submit Declaration of Performance (DoP).
- 4. Ceiling system manufacturer: British Gypsum
 - 4.1. Product reference: MF
- 5. Ceiling
 - 5.1. Boards: 12.5mm Gyproc Wallboard
 - 5.2. Soffit height above finished floor level: 2800mm
- 6. Grid
 - 6.1. Form: Interlocking
 - 6.2. Exposure: Concealed.
- 7. Suspension system
 - 7.1. Grid centres: 1200
 - 7.2. Hanger centres: 900mm
- 8. Access: Access panels indicated on drawing
- 9. Perimeter trim: Not required
- 10. Accessories: None
- 11. Integrated services fittings: Additional supports for pendant lights required.
Existing ventilation grilles to be reinstated

General/ performance - Not Used

Components

245 Standards

- 1. Steel panels: To BS EN 10346.



Client:

2. Aluminium sheet, strip and plate: To BS EN 485-1 and -2.
3. Aluminium bars, tubes and sections: To relevant parts of BS EN 515, BS EN 573, BS EN 755 and BS EN 12020.

255 Edge battens

1. Description: To New Suspended Ceilings
2. Manufacturer: Contractor's choice
 - 2.1. Product reference: Contractor's choice
3. Material: Planed softwood to BS EN 942, Class J10; moisture content at time of fixing: 15% ± 2%
 - 3.1. Finished size: 21 x 44 mm
 - 3.2. Finish (apply before ceiling grid is installed): Prime, undercoat and final coat of matt black to visible surfaces

260 Perimeter trims

1. Description: To new suspended ceilings
2. Type: 32 x 19 mm steel angle trim, colour and finish to match exposed grid
3. Manufacturer: Contractor's choice
 - 3.1. Product reference: Contractor's choice
4. Fixings
 - 4.1. Fasteners: Screw fixed
 - 4.2. Fixing centres (maximum): 450 mm

280 Access units

1. Description: To replace drop down ceiling access units in existing ceiling
2. Manufacturer: Name: The Access Panel Company Ltd
Web: www.accesspanels.co.uk
Tel: +44 (0)1724 853090
 - 2.1. Product reference: Exposed Grid Ceiling Access Panels
3. Size: 1200 x 600
4. Lock type: Square Drive Operated Lock with 'SLIK' Invisible Keyhole (as standard)
5. Operation: Concealed steel hinges, downward opening
6. Finish: Dummy grid to accept tegular tiles to match ceiling system
7. Colour: White

Execution

305 Setting out

1. General: Completed ceiling should present, over the whole of its surface exposed to the room below, a continuous and even surface, jointed (where applicable) at regular intervals.
2. Infill and access units, integrated services: Fitted correctly and aligned.
3. Edge/ perimeter infill units size (minimum): Half standard width or length.
4. Corner infill units size (minimum): Half standard width and length.
5. Grid: Position to suit infill unit sizes. Allow for permitted deviations from nominal sizes of infill unit.
6. Infill joints and exposed suspension members: Straight, aligned and parallel to walls, unless specified otherwise.



Client:

7. **Suitability of construction:** Give notice where building elements and features to which the ceiling systems relate are not square, straight or level.

310 Bracing

1. **General:** Secure, with additional bracing and stiffening to give a stable ceiling system resistant to design loads and pressures.

315 Protection

1. **Loading:** Do not apply loads for which the suspension system is not designed.
2. **Ceiling materials:** When necessary, remove and replace correctly using special tools and clean gloves, etc. as appropriate.

320 Top fixing

1. **Building structure:** Verify suitability.
2. **Structural soffit:** Existing timber joists at 400 mm nominal centres
 - 2.1. **Suitability to receive specified fixings:** Evaluate and confirm.
3. **Fixing generally:** In accordance with BS EN 13964.
4. **Fixing to**
 - 4.1. **Concrete:** Drill and insert suitable expanding anchors.
 - 4.2. **Aerated concrete:** Fix through from the top of concrete units and provide a system of primary support channels.
 - 4.3. **Structural steel:** Drill, or use suitable proprietary clips/ adaptors.
 - 4.4. **Metal roof decking:** Fix to sides of liner tray corrugations.
 - 4.5. **Timber:** Fix to side of joists at least 50 mm from bottom edge. If ceiling system is intended for fire protection, fix into top third of joists.
 - 4.6. **Hollow structural members:** Submit fixing proposals.

325 Installing hangers

1. **Wire hangers:** Straighten and tension before use.
2. **Installation:** Install vertical or near vertical, without bends or kinks. Do not allow hangers to press against fittings, services, or insulation covering ducts/ pipes.
3. **Obstructions:** Where obstructions prevent vertical installation, either brace diagonal hangers against lateral movement, or hang ceiling system on an appropriate rigid sub-grid bridging across obstructions and supported to prevent lateral movement.
4. **Extra hangers:** Provide as necessary to carry additional loads.
5. **Fixing**
 - 5.1. **Wire hangers:** Tie securely at top with tight bends to loops to prevent vertical movement.
 - 5.2. **Angle/ strap hangers:** Do not use rivets for top fixing.
6. **Spacings:** To suit ceiling grid manufacturer's requirements.

330 Installing timber edge battens

1. **Fixing:** Firmly to perimeter wall or other building structure.
 - 1.1. **Fasteners:** Plugged and screwed to walls
 - 1.2. **Fixing centres (maximum):** 600 mm



Client:

335 Perimeter trims

1. **Jointing:** Neat and accurate, without lipping or twisting.
 - 1.1. **External and internal corners:** Mitre joints generally. Overlap joints at internal corners are not acceptable.
 - 1.2. **Intermediate butt joints:** Minimize. Use longest available lengths of trim. Align adjacent lengths.
2. **Fixing:** Fix firmly to perimeter wall, edge battens or other building structure.
 - 2.1. **Fasteners:** Screw fixed as per manufacturer's recommendations.
 - 2.2. **Fixing centres:** 450 mm

340 Exposed grids

1. **Grid fixings:** Wire hangers
2. **Main runners:** Install level. Do not kink or bend hangers.
 - 2.1. **Spliced joints:** Stagger.
 - 2.2. **Wire hangers passing through main runners:** Use sharp bends and tightly wrapped loops.
 - 2.3. **Angle/ strap hangers:** Do not use rivets for bottom fixing.
 - 2.4. **Angular displacement of long axis of one runner in relation to next runner in line with it:** Not visually apparent.
3. **Cross members supported by main runners or other cross members:** Install perpendicular to intersecting runners.
4. **Cross tees:** Flat and coplanar with flanges of main runners after panel insertion.
 - 4.1. **Cross tees over 600 mm long, cut and resting on perimeter trim:** Provide an additional hanger.
5. **Holding down clips:** Locate to manufacturer's recommendations.
 - 5.1. **Fire-protecting/ resisting ceiling systems:** Use clip type featured in the fire test/ assessment.

345 Concealed grids

1. **Grid fixings:** Strap hangers
2. **Primary support channels:** Install level. Do not kink or bend hangers.
 - 2.1. **Wire hangers wrapped around primary channels:** Twice wrapped. Loops tightly formed.
 - 2.2. **Angle/ Strap hangers:** Do not use rivets for bottom fixing.
3. **Splines:** Locate between infill units to assist levelling of adjacent units and to resist air movement at joints.
4. **Spring-tee grids:** Do not omit primary channel.

355 Installing infill units

1. **General**
 - 1.1. **Perimeter infill units:** Trimmed, as necessary, to fully fill space between last grid member and perimeter trim. Prevent subsequent movement.
 - 1.2. **Deeply textured infill units:** Minimize variations in apparent texture and colour. In particular, avoid patchiness.
2. **Concealed grids:** Install infill units uniformly, straight and aligned. Avoid dimension creep.
 - 2.1. **Infill units around recessed luminaires and similar openings:** Prevent movement and displacement.



Client:

375 Board ceiling systems

1. Cut boards: Neat and accurate.
2. Fixing to grid
 - 2.1. Board edges: Fully support. Screw to grid members. Set heads of screws below surface of boards and fill flush with surface.
 - 2.2. Boards applied in two or more layers: Stagger joints.
3. Movement joints: Provide as appropriate for the area of ceiling system and/ or to coincide with movement joints in surrounding structure.

385 Upstands and bulkheads

1. Vertical ceiling systems: Support and brace to provide alignment and stability.
2. High upstands: Provide support at base of upstand.

390 Openings in ceiling materials

1. General: Neat and accurate. To suit sizes and edge details of fittings. Do not distort ceiling system.

395 Integrated services

1. General: Position services accurately, support adequately. Align and level in relation to the ceiling and suspension system. Do not diminish performance of ceiling system.
2. Small fittings: Support with rigid backing boards or other suitable means. Do not damage or distort the ceiling.
 - 2.1. Reaction to fire of additional supporting material: Not less than ceiling material.
3. Services outlets
 - 3.1. Supported by ceiling system: Provide additional hangers.
 - 3.2. Independently supported: Provide flanges to support ceiling system.

401 Ceiling-mounted luminaires

1. Support: By ceiling system
 - 1.1. Independently supported luminaires: Suspension adjusted to line and level of ceiling.
 - 1.2. Ceiling supported luminaires: Modifications and/ or extra support required: Downlights to be installed into plywood pattress behind ceiling tiles.
2. Surface mounted luminaires: Units installed so that in event of a fire the designed grid expansion provision is not affected.
3. Modular fluorescent recessed luminaires: Compatible with ceiling module. Extension boxes must not foul ceiling system.
4. Recessed rows of luminaires: Provide flanges for support of grid and infill units, unless mounted above grid flanges. Retain in position with lateral restraint.
5. Fire-protecting/ resisting ceiling systems: Luminaires must not diminish protection integrity of ceiling system.
6. Access: Provide access for maintenance of luminaires.

411 Mechanical services

1. Fan coil units
 - 1.1. Inlet/ Outlet grilles: Trim ceiling grid and infill units to suit.
 - 1.2. Space beneath: Sufficient for ceiling system components.



Client:

- 1.3. Suspension and connections: Permit accurate setting out and levelling of fan coil units.
2. Air grilles and diffusers
 - 2.1. Setting out: Accurate and level.
 - 2.2. Linear air diffusers: Retain in place with lateral restraint. Provide flanges for support of grid and infill units.
 - 2.3. Grille/ Diffuser ceiling joints: Provide smudge rings and edge seals.
3. Smoke detectors and PA speakers
 - 3.1. Ceiling infill units: Scribe and trim to suit.
 - 3.2. Independent suspension: Not required
 - 3.3. Flexible connections: Required.

421 Ceiling systems intended for fire protection

1. Junctions of ceiling systems with perimeter abutments and service penetrations: Seal gaps with tightly packed mineral wool or intumescent sealant to prevent penetration of smoke and flame.
2. Ceiling system/ wall junctions: Maintain protective value of ceiling system.
 - 2.1. Fixings and grounds: Noncombustible.
 - 2.2. Metal trim: Provide for thermal expansion.
3. Access and access panels: Maintain continuity of fire protection.

425 Installing cavity fire barriers

1. Maximum ceiling void dimension in any direction: 20m
2. Fixing: Secure barrier at head and base using proprietary angle support system
 - 2.1. General: Fix barriers securely to channels or angles at abutments to building structure.
 - 2.2. At perimeters and joints: Provide permanent stability and continuity with no gaps to form a complete barrier to smoke and flame.
3. Joints: Form to preserve integrity in fire.
4. Service penetrations: Cut barriers neatly to accommodate services. Fit fire-resistant sleeves around flexible materials. Fill gaps around services to fire barrier manufacturer's recommendations to maintain barrier integrity. Adequately support services passing through the barrier.
5. Ceiling systems intended for fire protection: Do not impair fire-resisting performance of ceiling system.
6. Ceiling systems not intended for fire protection: Do not mechanically interlink barriers with ceiling system.

500 Electrical continuity and earth bonding

1. Inclusion in finished work: Not required

Completion

505 Tools

1. Access tools: At Completion, supply one set of the following: Access tools for any hatches installed

520 User instructions

1. Contents: Include the following:
 - 1.1. Correct methods for removing and replacing infill units and other components.



Client:

- 1.2. Cleaning methods and materials.
- 1.3. Recommendations for redecoration.
- 1.4. **Ceiling systems intended for fire protection:** Limitations placed on subsequent alterations and maintenance procedures, to ensure that their fire performance is not impaired.
- 1.5. Maximum number, position and value of point loads that can be applied to ceiling system after installation.

530 Spares

1. General: At practical completion, supply the following: One full box of tiles for ceiling system K40/115 A and B.

Ω End of Section



Client:

K45 Suspended ceiling system alterations

General

110 Definitions

1. **Ceiling:** Items collectively constituting the ceiling surface, including infill units, boards, stretched fabric, access units and grid.
2. **Ceiling system:** Ceiling plus suspension components and integrated services fittings.

120 Existing suspended ceiling system

1. **Description:** Flat board set into 24mm grid.
2. **Structure over:** Determine on site
3. **Ceiling type:** Exposed grid with mineral fibre infill units
 - 3.1. **Ceiling void:** 400 mm (minimum) clear, generally

Products

310 Products generally

1. **Ceiling systems and components:** To BS EN 13964.

370 Modular suspended ceiling systems Type A

1. **Description:** - PLAIN TO CEILING TYPE A
2. **Manufacturer:** [Zentia](#)
 - 2.1. **Contact details**
 - 2.1.1. **Address:** Zentia
Kingsway South
Team Valley
Gateshead
United Kingdom
NE11 0SP
 - 2.1.2. **Telephone:** +44 (0)191 497 1000
 - 2.1.3. **Web:** <https://www.zentia.com>
 - 2.1.4. **Email:** info@zentia.com
 - 2.2. **Product reference:** [Aruba \(Board edge infills\)](#)
3. **Infill colour:** Global white.
4. **Weight:** Infill units: 3.6 kg/m².
5. **Reaction to fire:** To EN 13501-1, infill units: Euroclass A2-s1, d0; support grid: Euroclass A1.
6. **Sound absorption:** Infill units: $\alpha_w = 0.60$; Class C.
7. **Sound attenuation:** Infill units: Dnfw = 34 dB.
8. **Noise reduction coefficient:** Infill units: 0.55.
9. **VOC emissions:** Infill units: The VOC emission performance in accordance with the French labelling requirements: A.
10. **Formaldehyde emissions:** Infill units: To EN 13964, formaldehyde emission level E1 = Best test result possible.



Client:

11. RelativeHumidity: Infill units: 95%.

390 Access units

1. Description: - HINGED
2. Manufacturer: Name: The Access Panel Company Ltd
Web: www.accesspanels.co.uk
Tel: +44 (0)1724 853090
 - 2.1. Product reference: Exposed Grid Ceiling Access Panels
3. Size: 600 x 1200 mm
4. Finish: Dummy grid and infill units to match ceiling
 - 4.1. Colour: White RAL 9010

Execution

610 Preparation

1. Documentation: Obtain available documentation of the existing ceiling system and services, including record drawings and maintenance manual. Check on site.
2. Discrepancies: Give notice

620 Execution generally

1. Workmanship: In accordance with BS EN 13964 Annex A.
2. Designated ceiling system components: Remove carefully without affecting surrounding areas.
3. Disposal of removed components: Remove from site
4. Retained components: Do not distort or damage retained components.
5. Reuse of ceiling system components
 - 5.1. Condition: Undamaged, free from distortion, clean.
 - 5.2. Units and boards: Match adjacent areas where appropriate.
6. Cutting units, boards and components: Cut neatly and accurately. Maintain edge profiles.
 - 6.1. Openings: Suit sizes and edge details of fittings.

650 Setting out

1. General: Maintain ceiling system accurately, continuous, even, and jointed at regular intervals. Provide level soffits free from undulations, lipping and distortions in grid members.
2. Infill units, access units, integrated services: Fit and align correctly.
3. Minimum size for edge and perimeter infill units half standard width or length where practicable.
4. Grid: Position to suit infill unit sizes. Allow for permitted deviations from nominal sizes.
5. Infill joints and exposed suspension members: Straight, aligned and parallel to walls or setting out lines. Where building elements and features to which the ceiling system relates are not square, straight or level, give notice.

670 Installing suspension

1. Fixing
 - 1.1. Angle or strap hangers: Do not rivet for top fixing.
 - 1.2. Wire hangers: Tie securely with tight bends to loops to prevent vertical movement.
2. Installation



Client:

- 2.1. Alignment Vertical or near vertical.
- 2.2. Maintain straight, with suitable tension and without bends or kinks.
- 2.3. Do not allow hangers to press against fittings, services and insulation covering ducts and pipes.
3. Obstructions: Where obstructions prevent vertical installation, either:
 - 3.1. brace diagonal hangers against lateral movement; or
 - 3.2. hang ceiling system on an appropriate rigid sub-grid bridging across obstructions and supported to prevent lateral movement.
4. Extra hangers: Provide as required to carry additional loads.

675 Installing perimeter trims

1. Jointing: Neat and accurate, without lipping or twisting.
 - 1.1. External and internal corners: Mitre joints.
 - 1.2. Intermediate butt joints: Minimize. Use longest available lengths of trim. Align adjacent lengths, with matching joints.
2. Fixing: Fix firmly to perimeter wall or other building structure.
 - 2.1. Fixing centres: As existing.
3. Finish: Apply before ceiling grid is installed.
 - 3.1. Prime new timber edge battens with undercoat and final coat to visible surfaces.

680 Installing boards

1. Fixing boards to grids: Screw boards securely and firmly to grid members.
2. Surface: Provide a flat surface free from bowing and lipping. Set heads of screws below surface of boards and fill flush with surface.
3. Movement joints: Provide as appropriate for the area of ceiling and align with movement joints in surrounding structure.
4. Boards applied in two or more layers: Stagger joints.
5. Board edges: Fully support. Screw to grid members.

700 Coordination with services

1. Preparation: Check existing position of services against proposed alterations.
2. Clashes between services and ceiling system: Give notice.
3. Coordination: Programme works to minimize impact.
4. Services disconnection: Give notice.

710 Integrated services

1. General: Position services accurately, support adequately. Align and level in relation to the ceiling. Alterations must not diminish performance of ceiling system.
2. Surface spread of flame rating of additional supporting material: Match ceiling material.
3. Services outlets
 - 3.1. Supported by ceiling system: Provide additional hangers.
 - 3.2. Independently supported: Provide flanges to support altered ceiling system.

715 Luminaires

1. Independently support luminaires: Adjust suspension to line and level of ceiling as necessary.



Client:

2. **Surface mounted luminaires:** Do not inhibit designed grid expansion in fire.
3. **Modular fluorescent recessed luminaires:** Compatible with ceiling module. Extension boxes must not foul ceiling system.
4. **Continuous recessed rows of luminaires:** Provide flanges for support of grid and infill units, unless mounted above grid flanges. Retain in place with lateral restraint.
5. **Fire protecting and resisting ceiling systems:** Luminaires must maintain protection integrity of ceiling system.
6. **Access:** Provide access for maintenance of luminaires.

720 Mechanical services

1. **Fan coil units**
 - 1.1. **Inlet and outlet grilles:** Trim ceiling grid and infill units to suit.
 - 1.2. **Void clearance beneath:** Sufficient for ceiling system and fan coil components.
 - 1.3. **Suspension and connections:** Permit accurate setting out and levelling of fan coil units.
2. **Air grilles and diffusers**
 - 2.1. **Linear air diffusers:** Provide flanges for support of grid and infill units. Provide for displacement of ceiling grid. Retain in place with lateral restraint.
 - 2.2. **Grille and diffuser ceiling joints:** Provide smudge rings and edge seals.

725 Other services

1. **Smoke detectors and PA speakers**
 - 1.1. **Infill units:** Scribe to suit.
 - 1.2. **Flexible connections:** Required.

Completion

910 Documentation

1. **Building manual and records:** Update showing alterations made.

Ω End of Section



Client:

L20

Doors/ shutters/ hatches

General - Not Used

Products

230 Wood flush doors

1. Description: Internal Fire Door with Vision Panel
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Facings: Interior-grade plywood
4. Lippings: Exposed lippings to long edges
5. Preservative treatment: Not required
6. Finish as delivered: Prepared and primed, as section M60
7. Glazing/ infill details: Clear fire-resisting glazing
 - 7.1. Manifestation: As drawings or door schedules
 - 7.2. Beading: Internal
8. Fire performance
 - 8.1. Fire resistance: To [BS EN 13501-2](#), EIW 30S
 - 8.2. Smoke leakage: Manufacturer's standard
 - 8.3. Reaction to fire: To [BS EN 13501-1](#), Class B or better

410 Wood doorsets

1. Description: New doorsets for first floor staircases
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Door leaf: One and half
4. Core: Manufacturer's choice
5. Thickness: 44mm
6. Facings: Interior-grade plywood
7. Lippings: Concealed lippings to long edges
8. Finish as delivered: Prepared and primed, as section M60
9. Wood species: European birch
10. Finish as delivered: Prepared and primed, as section M60
11. Glazing/ infill details: Clear fire-resisting glazing
 - 11.1. Manifestation: As drawing
12. Beading: Internal
13. Ironmongery: Kick plates to each side, pull handle and push plate all as per P21.
14. Perimeter seals: Fire and smoke seal
15. Fire performance
 - 15.1. Fire resistance: To [BS EN 13501-2](#), EIW 30S
 - 15.2. Smoke leakage: S200



Client:

- 15.3. Reaction to fire: To [BS EN 13501-1](#), Class B or better
- 16. Other requirements: None
- 17. Fixing: Plugged and screwed

Execution

830 Fixing ironmongery generally

- 1. Fasteners: Supplied by ironmongery manufacturer.
 - 1.1. Finish/ corrosion resistance: To match ironmongery.
- 2. Holes for components: No larger than required for satisfactory fit/ operation.
- 3. Adjacent surfaces: Undamaged.
- 4. Moving parts: Adjusted, lubricated and functioning correctly at completion.

840 Fixing ironmongery to fire-resisting door assemblies

- 1. General: All items fixed in accordance with door leaf manufacturer's recommendations ensuring that integrity of the assembly, as established by testing, is not compromised.
- 2. Holes for through fixings and components: Accurately cut.
 - 2.1. Clearances: Not more than 8 mm unless protected by intumescent paste or similar.
 - 2.2. Lock/ latch cases for fire doors requiring >60 minutes integrity performance: Coated with intumescent paint or paste before installation.

850 Location of hinges

- 1. Primary hinges: Where not specified otherwise, positioned with centre lines 250 mm from top and bottom of door leaf.
- 2. Third hinge: where specified, positioned with centre line 250 mm below centre line of top hinge .
- 3. Hinges for fire-resisting doors: Positioned in accordance with door leaf manufacturer's recommendations.

Ω End of Section



Client:

M20

Plastered/ rendered/ roughcast coatings

Types of coating

210 Lightweight gypsum plaster

1. Description: FOR WALL REPAIRS
2. Substrate: Existing masonry substrate
 - 2.1. Preparation: Bonding agent recommended by plaster manufacturer
3. Manufacturer: British Gypsum
4. Undercoats: To BS EN 13279-1.
 - 4.1. Product reference: Thistle BondingCoat
 - 4.2. Thickness (excluding dubbing out and keys): 11mm generally, or to suit depth of make-up.
5. Final coat: Finish plaster to BS EN 13279-1.
 - 5.1. Product reference: Thistle MultiFinish
 - 5.2. Thickness: 2-3 mm.
 - 5.3. Finish: Smooth.
6. Accessories: Beads and stops

General - Not Used

Materials and marking of mortar - Not Used

Preparing substrates

510 Suitability of substrates

1. Soundness: Free from loose areas and significant cracks and gaps.
2. Cutting, chasing, making good, fixing of conduits and services outlets and the like: Completed.
3. Tolerances: Permitting specified flatness/ regularity of finished coatings.
4. Cleanliness: Free from dirt, dust, efflorescence and mould, and other contaminants incompatible with coatings.

541 Bonding agent application

1. General: Apply evenly to substrate to achieve effective bond of plaster/ render coat. Protect adjacent joinery and other surfaces.

566 Removing defective existing plaster

1. Plaster for removal: Detached, soft, friable, badly cracked, affected by efflorescence or otherwise damaged.
 - 1.1. Hollow, detached areas: Obtain instructions
2. Stained plaster: Submit proposals
3. Removing defective plaster. Cut back to a square, sound edge.
4. Faults in substrate (structural deficiencies, damp, etc.): Submit proposals.
5. Cracks
 - 5.1. Fine hairline cracking/ crazing: Leave.



Client:

- 5.2. Other cracks: Obtain instructions
- 6. Dust and loose material: Remove from exposed substrates and edges.

Backings/ beads/ joints

630 Beads/ stops for internal use

- 1. Standard: In accordance with BS EN 13914-2, Table 2.
- 2. Material: Stainless steel to BS EN 13658-1

640 Beads/ stops generally

- 1. Location: External angles and stop ends except where specified otherwise.
- 2. Corners: Neat mitres at return angles.
- 3. Fixing: Secure, using longest possible lengths, plumb, square and true to line and level, ensuring full contact of wings with substrate.
 - 3.1. Beads/ stops for external render: Fix mechanically.
- 4. Finishing: After coatings have been applied, remove surplus material while still wet, from surfaces of beads/ stops exposed to view.

Mouldings/ decorative plasterwork - Not Used

Internal plastering

710 Application generally

- 1. Application of coatings: Firmly and in one continuous operation between angles and joints. Achieve good adhesion.
- 2. Appearance of finished surfaces: Even and consistent. Free from rippling, hollows, ridges, cracks and crazing.
 - 2.1. Accuracy: Finish to a true plane, to correct line and level, with angles and corners to a right angle unless specified otherwise, and with walls and reveals plumb and square.
- 3. Drying out: Prevent excessively rapid or localized drying out.

715 Flatness/ surface regularity

- 1. Sudden irregularities: Not permitted.
- 2. Deviation of plaster surface: Measure from underside of a straight edge placed anywhere on surface.
 - 2.1. Permissible deviation (maximum) for plaster not less than 13 mm thick: 3 mm in any consecutive length of 1800 mm.

718 Junction of new plasterwork with existing

- 1. New plasterwork: Finish flush with original face of existing plasterwork to form a seamless junction.

720 Dubbing out

- 1. General: Correct substrate inaccuracies.
- 2. New smooth dense concrete and similar surfaces: Dubbing out prohibited unless total plaster thickness is within range recommended by plaster manufacturer.
- 3. Thickness of any one coat (maximum): 10 mm.
- 4. Mix: As undercoat.



Client:

5. **Application:** Achieve firm bond. Allow each coat to set sufficiently before the next is applied. Cross scratch surface of each coat.

742 Thin coat plaster

1. **Preparation for plasters less than 2 mm thick:** Fill holes, scratches and voids with finishing plaster.

777 Smooth finish

1. **Appearance:** A tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks. Avoid water brush, excessive trowelling and over polishing.

External rendering - Not Used

Ω End of Section



Client:

M50

Rubber/ plastics/ cork/ lino/ carpet tiling/ sheeting

Types of covering

110 A PVCu LININGS TO WALLS

1. Location: Corridor walls
2. Substrate: Plastered wall
3. Manufacturer: Altro
Telephone +44(0)1462 707600,
Fax +44 (0)1462 707515, email enquiries@altro.com
 - 3.1. Product Reference: Fortis Titanium W137
 - 3.2. Colour: FT/41 Perl
4. Adhesive: Altrofix W139

130 Carpet tiling

1. Location: Office and Corridor Areas
2. Base: Existing solid floor
 - 2.1. Preparation: Remove existing carpet sheeting / tiles.
3. Carpet tiles
 - 3.1. Standards: To BS EN 14041 and BS EN 1307.
 - 3.1.1. Evidence of compliance: Submit.
 - 3.2. Manufacturer: Interface
 - 3.2.1. Product reference: Transformation
 - 3.3. Type: Loop pile
 - 3.4. BS EN 1307 classification
 - 3.4.1. Levels of use class: 33
 - 3.4.2. Additional performance properties to BS EN 1307: Castor chair suitability (Intensive use)
 - 3.5. Size: 500 x 500 mm
 - 3.6. Colour/ pattern: Fern
4. Method of laying: Fully adhere all tiles with release adhesive recommended by tile manufacturer.
5. Accessories: Stair nosings as clause 750

150 Particle-based enhanced slip-resistant polyvinyl chloride (PVC) sheets Type A

1. Location: Classroom Floors and Kitchens
2. Flooring roll
 - 2.1. Manufacturer: Altro
 - 2.1.1. Contact details
 - 2.1.1.1. Address: Works Road
Letchworth Garden City
Hertfordshire
SG6 1NW



Client:

- 2.1.1.2. Telephone: [+44 \(0\)1462 480480](tel:+44(0)1462480480)
- 2.1.1.3. Web: <https://www.altro.com/uk>
- 2.1.1.4. Email: enquiries@altro.com
- 2.1.2. Product reference: [Altro Suprema™](#)
- 2.2. Standard: To EN 13845, EN 14041.
- 2.3. Use class: To EN ISO 10874, 34, 43.
- 2.4. Slip potential
 - 2.4.1. Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum): To EN 13893, PTV ≥ 36.
- 2.5. Width: 2000 mm.
- 2.6. Thickness: To EN ISO 24346, 2.2 mm.
- 2.7. Colour and pattern: CICELY SY20006.
- 2.8. Accessories: Stair nosings/ trims.
- 2.9. Dimensions: 2 m x 20 m = 40 m².
- 2.10. Weight: To EN ISO 23997, 2.6 kg/m².
- 2.11. Residual indentation: To EN ISO 24343-1, ≤ 0.10 mm.
- 2.12. Dimensional stability: To EN ISO 23999, ≤ 0.4%.
- 2.13. Lightfastness: To EN ISO 105-BO2, ≥ 6.
- 2.14. Castor chair rating: To ISO 4918, Type W.
- 2.15. Wear resistance: To EN 13845 Annex D, ≤ 10% / 50000 cycles.
- 2.16. Chemical resistance: To EN ISO 26987, Good.
- 2.17. VOC emissions: To CDPH 1350, Approved.
- 2.18. Sound insulation: To EN ISO 140-8, 5 dB.
- 2.19. Reaction to fire: To EN ISO 9239-1, ≥ 8kW/m² (Bfl-s1).
- 2.20. Type: To EN 13845, Safety flooring.
- 2.21. Third-party certification: CE certified, UKCA certified.

170 Needled pile carpets Type A

- 1. Carpet underlay to BS 5808 and BS EN 14499
 - 1.1. Manufacturer: [Heckmondwike FB](#)
 - 1.1.1. Contact details
 - 1.1.1.1. Address: Wellington Mills
Huddersfield Road
Liversedge
West Yorkshire
WF15 7FH
 - 1.1.1.2. Telephone: [+44 \(0\)1924 410544](tel:+44(0)1924410544)
 - 1.1.1.3. Web: www.heckmondwike-fb.co.uk
 - 1.1.1.4. Email: sales@heckmondwike-fb.co.uk
 - 1.1.2. Product reference: [Battleship - Carpet](#)
 - 1.2. Level of use class: To BS EN 1307, class 33.
 - 1.3. Recycled content: 10%.
 - 1.4. Width: 2000 mm.



Client:

- 1.5. Colour and pattern: Anthracite.
- 1.6. Weight: 1495 gsm.
- 1.7. Colour fastness: 6 / 4-5 / 4-5.
- 1.8. Fire rating (to BS EN 13501): Class Efl.

General requirements

210 Workmanship generally

- 1. Base condition after preparation: Rigid, dry, sound, smooth and free from grease, dirt and other contaminants.
- 2. Finished coverings: Accurately fitted, tightly jointed, securely bonded, smooth and free from air bubbles, rippling, adhesive marks and stains.

251 Layout – seams in roll materials

- 1. Setting out: Minimise occurrences of seams and cross seams.

270 Extra material

- 1. Provision of extra material: At completion, hand to Employer extra material of each type of covering to extent of 2 no complete boxes of carpet tiles as per M50/130.

330 Commencement

- 1. Required condition of works prior to laying materials
 - 1.1. Building is weathertight and well dried out.
 - 1.2. Wet trades have finished work.
 - 1.3. Paintwork is finished and dry.
 - 1.4. Conflicting overhead work is complete.
 - 1.5. Floor service outlets, duct covers and other fixtures around which materials are to be cut are fixed.
- 2. Notification: Submit not less than 48 hours before commencing laying.

340 Conditioning

- 1. Prior to laying: Condition materials by unpacking and separating in spaces where they are to be laid. Maintain resilient flooring rolls in an upright position. Unroll carpet and keep flat on a supporting surface.
- 2. Conditioning time and temperature (minimum): As recommended by manufacturer with time extended by a factor of two for materials stored or transported at a temperature of less than 10°C immediately prior to laying.

Preparing bases

420 Existing bases

- 1. Notification: Before commencing work, confirm that existing bases will, after preparation, be suitable to receive coverings.
- 2. Suitability of bases and conditions within any area: Commencement of laying of coverings will be taken as acceptance of suitability.



Client:

440 Substrates to receive thin coverings

1. **Trowelled finishes:** Uniform, smooth surface free from trowel marks and other blemishes. Abrade suitably to receive specified floor covering material.

460 Smoothing/ levelling underlayment compound

1. **Type:** As recommended by covering manufacturer
2. **Manufacturer:** Submit proposals
 - 2.1. **Product reference:** Submit proposals

470 Bases from which existing floor coverings have been removed

1. **Substrate:** Clear of covering and as much adhesive as possible. Skim with smoothing underlayment compound to give smooth, even surface.

560 Plywood underlay

1. **Standard:** To BS EN 13986.
2. **Bonding quality:** To BS EN 314-2, class 1.
3. **Appearance:** To BS EN 635, class III.
4. **Finish:** Sanded
5. **Thickness:** 6 mm
6. **Sheet size:** 2400 x 1200 mm
7. **Substrate:** Existing floor boards securely fixed and acceptably level with no gross irregularities or protruding fasteners.
8. **Laying sheets:** Stagger cross joints such that no joint within base and underlay is coincident and with a 0.5-1 mm gap between sheets.
9. **Fasteners:** 25 mm ringed shank or twisted shank nails or divergent staples.
 - 9.1. **Spacing:** Commencing at centre of one side of each sheet, at 150 mm grid centres over area of each sheet and at 100 mm centres along perimeter, set in 12 mm from edge.
 - 9.2. **Placement:** Driven with heads set flush with surface, and not projecting through underside of base. Not deformed.

Laying coverings

610 Setting out tiles

1. **Method:** Set out from centre of area/ room, so that wherever possible:
 - 1.1. Tiles along opposite edges are of equal size.
 - 1.2. Edge tiles are more than 50% of full tile width.

620 Colour consistency

1. **Finished work in any one area/ room:** Free from banding or patchiness.

640 Adhesive fixing generally

1. **Adhesive type:** As specified, as recommended by covering/ underlay, manufacturer or as approved.
2. **Primer:** Type and usage as recommended by adhesive manufacturer.
3. **Application:** As necessary to achieve good bond.



Client:

4. **Finished surface:** Free from trowel ridges, high spots caused by particles on the substrate, and other irregularities.

650 Seams

1. **Patterns:** Matched.
2. **Joints:** Tight without gaps.

680 Seam welding coverings

1. **Commencement:** At least 24 hours after laying, or after adhesive has set.
2. **Joints:** Neat, smooth, strongly bonded, flush with finished surface.

720 Doorways

1. **Joint location:** On centre line of door leaf.

740 Floor cover strips Type A

1. **Manufacturer:** [Gradus](#)
 - 1.1. **Contact details**
 - 1.1.1. **Address:** Chapel Mill
Park Green
Macclesfield
Cheshire
SK11 7LZ
 - 1.1.2. **Telephone:** [+44 \(0\)1625 428922](tel:+44(0)1625428922)
 - 1.1.3. **Web:** <https://www.gradus.com>
 - 1.1.4. **Email:** imail@gradus.com
 - 1.2. **Product reference:** Clip-Top PVC-u floor trims
2. **Material/ finish:** PVC-u
3. **Fixing:** Secure with edge of covering gripped. Use matching fasteners where exposed to view

750 Rigid stair nosings Type A

1. **Manufacturer:** [Gradus](#)
 - 1.1. **Contact details**
 - 1.1.1. **Address:** Chapel Mill
Park Green
Macclesfield
Cheshire
SK11 7LZ
 - 1.1.2. **Telephone:** [+44 \(0\)1625 428922](tel:+44(0)1625428922)
 - 1.1.3. **Web:** <https://www.gradus.com>
 - 1.1.4. **Email:** imail@gradus.com
 - 1.2. **Product reference:** [Traditional Aluminium Stair Edgings – G Range \(G41\)](#)
2. **Profile:** Square.
3. **Base section**
 - 3.1. **Material:** Aluminium.
4. **Size**



Client:

- 4.1. Rise x going: 50 x 63 mm.
- 4.2. Gauge: 5 mm.
- 5. Inserts
 - 5.1. Material: PVC.
- 6. Accessories: Not required.
- 7. Type: Interior.
- 8. Colour: Photoluminescent to steps, Lead to lecture theatre seating areas.
- 9. Fixing: Mechanical (screw) and adhesive fix.
- 10. Arrangement: Single channel.

760 Stair coverings – separate risers and treads

- 1. Fixing: Accurately cut. Fit risers before treads.

780 Trafficking after laying

- 1. Covering types: All
- 2. Traffic free period: Until adhesive is set

Completion

880 Waste

- 1. Spare covering material: Retain suitable material for patching. On completion submit pieces for selection. Hand over selected pieces to Employer.

Ω End of Section



Client:

M60 Painting/clear finishing

Coating systems

110 Water-based finishing coats Type A

1. Description: TO INTERNAL WALLS AND CEILINGS
2. Manufacturer: [Dulux Trade, brand of AkzoNobel](#)
 - 2.1. Contact details
 - 2.1.1. Address: AkzoNobel Decorative Paints
Wexham Road
Slough
Berkshire
SL2 5DS
 - 2.1.2. Telephone: [+44 \(0\)333 222 7070](tel:+44(0)3332227070)
 - 2.1.3. Web: <https://www.duluxtradepaintexpert.co.uk/en>
 - 2.1.4. Email: project.support@akzonobel.com
 - 2.2. Product reference: [Dulux Trade Vinyl Matt](#)
3. Composition: Pigment: lightfast pigments. Binder: acrylic copolymer emulsion. Solvent: water.
4. Sheen: Matt, 2–5%.
5. Colour: Brilliant white.
6. Coverage: 17 m²/L.
7. Application: Apply by roller.

130 Water-based finishing coats Type A

1. Manufacturer: [Dulux Trade, brand of AkzoNobel](#)
 - 1.1. Contact details
 - 1.1.1. Address: AkzoNobel Decorative Paints
Wexham Road
Slough
Berkshire
SL2 5DS
 - 1.1.2. Telephone: [+44 \(0\)333 222 7070](tel:+44(0)3332227070)
 - 1.1.3. Web: <https://www.duluxtradepaintexpert.co.uk/en>
 - 1.1.4. Email: project.support@akzonobel.com
 - 1.2. Product reference: [Quick Dry Gloss](#)
2. Composition: Alkyd.
3. Sheen: High gloss.
4. Colour: White
5. System code: M30WTR – Ferrous (iron and steel) (internal). M17WTR – Galvanized (internal).
6. Form: Liquid.
7. Coverage: Up to 12m²/L.
8. Viscosity: 5,72 cm²/s.



Client:

150 Water-based finishing coats Type A

1. Description: TO INTERNAL EXPOSED SOFTWOOD SKIRTING, ARCHITRAVES AND DOORS
2. Manufacturer: [Dulux Trade, brand of AkzoNobel](#)
 - 2.1. Contact details
 - 2.1.1. Address: AkzoNobel Decorative Paints
Wexham Road
Slough
Berkshire
SL2 5DS
 - 2.1.2. Telephone: [+44 \(0\)333 222 7070](tel:+44(0)3332227070)
 - 2.1.3. Web: <https://www.duluxtradepaintexpert.co.uk/en>
 - 2.1.4. Email: project.support@akzonobel.com
 - 2.2. Product reference: [Eggshell](#)
3. Composition: Alkyd.
4. Sheen: Eggshell.
5. Colour: White 93YY 89/012 to Skirting
50RR 54/018. (RAL 860-3) to Architraves and Doors
6. Execution: Applying coating.

150 Water-based finishing coats Type B

1. Description: TO INTERNAL TIMBER PANELLING TO DEFINED AREAS
2. Manufacturer: [Dulux Trade, brand of AkzoNobel](#)
 - 2.1. Contact details
 - 2.1.1. Address: AkzoNobel Decorative Paints
Wexham Road
Slough
Berkshire
SL2 5DS
 - 2.1.2. Telephone: [+44 \(0\)333 222 7070](tel:+44(0)3332227070)
 - 2.1.3. Web: <https://www.duluxtradepaintexpert.co.uk/en>
 - 2.1.4. Email: project.support@akzonobel.com
 - 2.2. Product reference: [Eggshell](#)
3. Composition: Alkyd.
4. Sheen: Eggshell.
5. Colour: Dulux Dried Sage 90YY 35/169
6. Execution: Applying coating.

Generally

215 Handling and storage

1. Coating materials: Deliver in sealed containers, labelled clearly with brand name, type of material and manufacturer's batch number.
2. Materials from more than one batch: Store separately. Allocate to distinct parts or areas of the work.



Client:

220 Compatibility

1. Coating materials selected by contractor
 - 1.1. Recommended by their manufacturers for the particular surface and conditions of exposure.
 - 1.2. Compatible with each other.
 - 1.3. Compatible with and not inhibiting performance of preservative/fire-retardant pretreatments.

240 Surfaces not to be coated

1. Radiator valves and stop valves.

280 Protection

1. 'Wet paint' signs and barriers: Provide where necessary to protect other operatives and general public, and to prevent damage to freshly applied coatings.

Preparation

400 Preparation generally

1. Standard: In accordance with BS 6150.
2. Refer to any pre-existing CDM Health and Safety File.
3. Refer to CDM Construction Phase Plan where applicable.
4. Suspected existing hazardous materials: Prepare risk assessments and method statements covering operations, disposal of waste, containment and reoccupation, and obtain approval before commencing work.
5. Preparation materials: Types recommended by their manufacturers and the coating manufacturer for the situation and surfaces being prepared.
6. Substrates: Sufficiently dry in depth to suit coating.
7. Efflorescence salts: Remove.
8. Dirt, grease and oil: Remove. Give notice if contamination of surfaces/ substrates has occurred.
9. Surface irregularities: Remove.
10. Joints, cracks, holes and other depressions: Fill flush with surface, to provide smooth finish.
11. Dust, particles and residues from preparation: Remove and dispose of safely.
12. Water based stoppers and fillers
 - 12.1. Apply before priming unless recommended otherwise by manufacturer.
 - 12.2. If applied after priming: Patch prime.
13. Oil based stoppers and fillers: Apply after priming.
14. Doors, opening windows and other moving parts
 - 14.1. Ease, if necessary, before coating.
 - 14.2. Prime resulting bare areas.

420 Fixtures and fittings

1. Removal: Before commencing work remove: Coverplates, grilles, wall clocks, and other surface mounted fixtures.
2. Replacement: Refurbish as necessary, refit when coating is dry.

425 Ironmongery

1. Removal: Before commencing work: Remove ironmongery from surfaces to be coated.



Client:

2. Hinges: Do not remove
3. Replacement: Refurbishment as necessary; refit when coating is dry.

430 Existing ironmongery

1. Refurbishment: Remove old coating marks. Clean and polish.

440 Previously coated surfaces generally

1. Preparation: In accordance with BS 6150, clause 11.5.
2. Contaminated or hazardous surfaces: Give notice of:
 - 2.1. Coatings suspected of containing lead.
 - 2.2. Substrates suspected of containing asbestos or other hazardous materials.
 - 2.3. Significant rot, corrosion or other degradation of substrates.
3. Suspected existing hazardous materials: Prepare risk assessments and method statements covering operations, disposal of waste, containment and reoccupation, and obtain approval before commencing work.
4. Removing coatings: Do not damage substrate and adjacent surfaces or adversely affect subsequent coatings.
5. Loose, flaking or otherwise defective areas: Carefully remove to a firm edge.
6. Alkali affected coatings: Completely remove.
7. Retained coatings
 - 7.1. Thoroughly clean to remove dirt, grease and contaminants.
 - 7.2. Gloss-coated surfaces: Provide key.
8. Partly removed coatings
 - 8.1. Additional preparatory coats: Apply to restore original coating thicknesses.
 - 8.2. Junctions: Provide flush surface.
9. Completely stripped surfaces: Prepare as for uncoated surfaces.

461 Previously coated wood

1. Degraded or weathered surface wood: Take back to provide suitable substrate.
2. Degraded substrate wood: Repair with sound material of same species.
3. Exposed resinous areas and knots: Apply two coats of knotting.

471 Preprimed wood

1. Areas of defective primer: Take back to bare wood and reprime.

481 Uncoated wood

1. General: Provide smooth, even finish with arrises and moulding edges lightly rounded or eased.
2. Heads of fasteners: Countersink sufficient to hold stoppers/fillers.
3. Resinous areas and knots: Apply two coats of knotting.

490 Previously coated steel

1. Defective paintwork: Remove to leave a firm edge and clean bright metal.
2. Sound paintwork: Provide key for subsequent coats.
3. Corrosion and loose scale: Take back to bare metal.



Client:

4. Residual rust: Treat with a proprietary removal solution.
5. Bare metal: Apply primer as soon as possible.
6. Remaining areas: Degrease.

511 Galvanized, sherardized and electroplated steel

1. White rust: Remove.
2. Pretreatment: Apply one of the following:
 - 2.1. Mordant solution to blacken whole surface.
 - 2.2. Etching primer recommended by coating system manufacturer.

580 Uncoated plaster

1. Nibs, trowel marks and plaster splashes: Scrape off.
2. Overtrowelled 'polished' areas: Key lightly.

611 Wall coverings

1. Retained wall coverings: Check that they are in good condition and well adhered to substrate.
2. Previously covered walls: Wash down to remove paper residues, adhesive and size.

622 Organic growths

1. Dead and loose growths and infected coatings: Scrape off and remove from site.
2. Treatment biocide: Apply appropriate solution to growth areas and surrounding surfaces.
3. Residual effect biocide: Apply appropriate solution to inhibit re-establishment of growths.

Application

711 Coating generally

1. Application standard: In accordance with BS 6150, clause 9.
2. Conditions: Maintain suitable temperature, humidity and air quality during application and drying.
3. Surfaces: Clean and dry at time of application.
4. Thinning and intermixing of coatings: Not permitted unless recommended by manufacturer.
5. Overpainting: Do not paint over intumescent strips or silicone mastics.
6. Priming coats
 - 6.1. Thickness: To suit surface porosity.
 - 6.2. Application: As soon as possible on same day as preparation is completed.
7. Finish
 - 7.1. Even, smooth and of uniform colour.
 - 7.2. Free from brush marks, sags, runs and other defects.
 - 7.3. Cut in neatly.
8. Doors, opening windows and other moving parts: Ease before coating and between coats.

720 Priming joinery

1. Preservative treated timber: Retreat cut surfaces with two flood coats of a suitable preservative before priming.
2. End grain: Coat liberally allow to soak in, and recoat.



Client:

751 Staining wood

1. **Primer:** Apply if recommended by stain manufacturer.
2. **Application:** Apply in flowing coats and brush out excess stain to produce uniform appearance.

Ω End of Section



Client:

P10 Sundry insulation/ proofing work

Types of insulation

410 Coated woven glass fibre cloth flexible cavity barriers Type B

1. Manufacturer: [FIREFLY™ TBA](#)
 - 1.1. Contact details
 - 1.1.1. Address: Unit 3 Transpennine Trading Estate
Gorrells Way
Rochdale, Lancashire
OL11 2PX
 - 1.1.2. Telephone: [+44 \(0\) 1706 758817](tel:+44(0)1706758817)
 - 1.1.3. Web: <https://tbafirefly.com/>
 - 1.1.4. Email: technical@tbafirefly.com
 - 1.2. Product reference: [FIREFLY™ Apollo Lite 30:30 Fire Barrier](#)
2. General requirements: Combined integrity and insulation 30/30.
3. Thickness: 6 mm.
4. Fire performance: Fire resistance: 30 minutes' integrity/ 30 minutes' insulation to BS 476-20/ BS 476-22.
5. Sound insulation rating: 11 dB.
6. Width: 1270 mm.
7. Roll length: 6 m.
8. Area: 7.62 m².
9. Weight: 1.44 kg/m².

Ω End of Section



Client:

P21 Door/ window ironmongery

Pre-tender

10 Quantities and locations

1. Quantities and locations of ironmongery: See door schedule and work schedule
2. Fixing: As sections L10 and L20.

General

120 Ironmongery range selected by contractor

1. Source: Single coordinated range.
2. Notification: Submit details of selected range, manufacturer and/ or supplier.
3. Principal material/ finish: Satin stainless steel, Grade 1.4301 (304)
4. Items unavailable within selected range: Submit proposals.

140 Samples

1. General: before placing orders with suppliers submit labelled samples of the following: Door handles and escutcheons .
 - 1.1. **Conformity:** Retain samples on site for the duration of the contract. Ensure conformity of ironmongery as delivered with labelled samples

170 Ironmongery for fire doors

1. **Relevant products:** Ironmongery fixed to, or morticed into, the component parts of a fire-resisting door assembly
2. **Compliance:** Ironmongery included in successful tests to [BS EN 1634-1](#) on door assemblies similar to those proposed
 - 2.1. **Certification:** Submit CERTIFIRE certificates
3. Melting point of components (except decorative non-functional parts): 800°C minimum.

Door hanging devices - Not Used

Window hanging devices - Not Used

Door operating devices

410 Controlled door closers Type A

1. Description: To new doors
2. Standard: To [BS EN 1154](#).
3. Manufacturer: [dormakaba UK & Ireland Ltd](#)
 - 3.1. Contact details
 - 3.1.1. Address: Wilbury Way
Hitchin
Hertfordshire
SG4 0AB
 - 3.1.2. Telephone: [+44 \(0\)1462 477600](#)



Client:

- 3.1.3. Web: <https://www.dormakaba.com/gb-en>
- 3.1.4. Email: iain.jones@dormakaba.com
- 3.2. Product reference: TS71
- 4. Type: Overhead, face-fixed
- 5. Power size: 3-4 Adjustable
- 6. Operational adjustment
 - 6.1. Variable power: Matched to size, weight and location of doors.
 - 6.2. Latched doors: Override latches and/ or door seals when fitted.
 - 6.3. Unlatched doors: Hold shut under normal working conditions.
 - 6.4. Closing against smoke seals of fire doors: Positive. No gaps.

471 Electromagnetic hold-open/ swing-free devices

- 1. Description: To fire doors
- 2. Standard: To [BS EN 1155](#).
- 3. Manufacturer: Geofire
 - 3.1. Product reference: Electromagnetic Fire Door Holder
- 4. Type: Hold-open, separate wall-mounted
- 5. Material/ finish: As supplied
- 6. Electric supply: To suit fire alarm
- 7. Means of release: Alarm system and/ or failure of power supply.
- 8. Test switch: Integrated

Door securing devices - Not Used

Window securing devices - Not Used

Door furniture

622 Performance specification for lever handle sets

- 1. Description: Door Handles to Fire Doors
- 2. Standard: To [BS EN 1906](#).
- 3. Style: Round pattern with return to door
- 4. Size: 22 mm
- 5. Material/ finish: Satin stainless steel, Grade 1.4301 (304)
- 6. Mounting: Sprung rose with bolt through fixing

641 Pull handles

- 1. Description: To new and refurbished doors
- 2. Standard: To [BS 8424](#).
- 3. Manufacturer: Submit proposals
 - 3.1. Product reference: Submit proposals
- 4. Shape: D handle
- 5. Diameter: 22 mm
- 6. Distance between centres: 300 mm



Client:

7. Material/ finish: Polished stainless steel, Grade 1.4301 (304)
8. Mounting: Bolt through

670 Push plates

1. Description: To new and refurbished doors
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Size: 450 x 75 x 1.5mm
4. Material/ finish: Polished stainless steel, Grade 1.4301 (304)
5. Mounting: Face fix
6. Additional requirements: Screw heads colour matched to plate Rounded edges and radiused corners

690 Kick plates

1. Description: To new or refurbished doors
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Size: 800 x 150 x 1.2mm
4. Material/ finish: Polished stainless steel, Grade 1.4301 (304)
5. Mounting: Face fix
6. Additional requirements: Screw heads colour matched to plate

710 Escutcheons

1. Description: to new doors with keyed lock
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Material/ finish: Satin stainless steel, Grade 1.4401 (316)
4. Keyhole type: Euro profile cylinder
5. Usage: To cylinder locks where no handle backplate is specified to be fitted

720 Door stops

1. Manufacturer: Submit proposals
 - 1.1. Product reference: Submit proposals
2. Type: Floor-mounted rubber buffer on stainless steel shoe for floor fixing
3. Usage: To doors opening against walls other than those fitted with closers with a back check facility

Window furniture - Not Used

Ω End of Section



Client:

P31 Holes, chases, covers and supports for services

Products

300 Floor ducting/ trunking

1. Description: For small power distribution to lecture theatre
2. Manufacturer: Submit proposals
 - 2.1. Product reference: Submit proposals
3. Standards: To [BS EN 50085](#)
4. Performance:
 - 4.1. Fire resistance: Where floor ducting or trunking passes through fire partitions, ensure a minimum Class EI60 is achieved in accordance with [BS EN 13501-2](#).
5. Sizes: Minimum necessary to correctly contain the cables required.
6. Bases
 - 6.1. Jointing type: Push-fit
7. Covers: Standard
8. Accessories: Preformed corners and T-junctions

Execution

630 Holes, recesses and chases in precast concrete

1. Cutting and drilling: Minimum size to accommodate trunking

675 Proscribed zones for wiring in walls

1. Standard: Complies with [BS 7671](#) Regulation 522.6.204
2. Position: Complies with [BS 7671](#) Regulation 522.6.204
3. Prohibited zones: Do not install cables behind skirting boards

710 Sealing

1. Description: Fire Resistance
2. Service: Electrical conduits
3. Location: Pipe sleeves through walls and floors
4. Sealing material: Intumescent sealant
5. Method: Conduit and cables to be bedded in intumescent
6. Performance requirement: As drawings

Ω End of Section

