

K2 Architects Ltd

Rochdale Council

Heywood Civic Centre

Stage 4 NBS

20-06-2024

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Ac_10_10_25/120 Demolition

Activities

Ac_10_10_25/120 Demolition

1. Requirement: [Ac_10_10_25/210 Demolition requirements](#)
2. Contract survey
 - 2.1. Scope of contract survey: Supplementary survey of areas not covered by pre-contract survey required. Refer to Structural Engineers report on sequencing strategy for works.
3. Vegetation control: Refer to Ecology report on requirements.
4. Execution: [Ac_10_10_25/615 Demolition generally](#); [Ac_10_10_25/660 Health hazards during demolition](#); [Ac_10_10_25/630 Location and marking of existing services](#); [Ac_10_10_25/618 Contractor](#); [Ac_10_10_25/620 Benchmarks](#); [Ac_10_10_25/635 Disconnection of services](#); [Ac_10_10_25/640 Bypass connections for supplies before demolition](#); [Ac_10_10_25/665 Gas and vapour risks during demolition](#); [Ac_10_10_25/670 Dust control](#); [Ac_10_10_25/680 Unforeseen hazards](#); [Ac_10_10_25/690 Treatment of adjoining property affected by demolition](#); [Ac_10_10_25/695 Structures and services to be retained](#); [Ac_10_10_25/700 Partly demolished structures](#); [Ac_10_10_25/720 Recycled components and materials](#); [Ac_10_10_25/710 Groundworks during demolition](#)
5. Completion: [Ac_10_10_25/820 Site condition following completion](#)

System performance

Ac_10_10_25/210 Demolition requirements

1. Scope of the demolition works: Refer to Architects Drawings
2. Structures to be retained: Refer to demolition drawings. To be read together with Structural engineers information.

Execution

Ac_10_10_25/615 Demolition generally

1. Standard: To [BS 6187](#).

Ac_10_10_25/618 Contractor

1. Personnel
 - 1.1. Supervisory staff: Required to be experienced in the assessment of risks involved and methods of demolition to be used.
 - 1.2. Operatives: Appropriately skilled and experienced in the type of work. Holding, or in training to obtain, relevant Construction skills certificates of competence.

Ac_10_10_25/620 Benchmarks

1. Unrecorded benchmarks and other survey information: Give notice when found.
2. Protection: Do not remove or destroy.

Ac_10_10_25/630 Location and marking of existing services

1. Services affected by the Works: Locate and mark positions.
2. Mains services: Arrange with the appropriate authorities for location and marking of positions.

3. Marking: Mark services in accordance with [National Joint Utilities Group \(NJUG\)](#) publication [Street works UK guidance on the positioning and colour coding of underground utilities' apparatus](#). Volume 1. Issue 9.

Ac_10_10_25/635 Disconnection of services

1. Disconnection of supplies and removal of fittings and equipment : Arrange with the appropriate authorities and responsible private organizations. Remove fittings and equipment where agreed or Gas supply terminated at boundary meter chamber, meters removed or Water supply shut-off at stopcock.
2. Drains: Locate, disconnect and seal disused drain connections. Agree where drains are to be sealed.
3. Decommissioning action plan: Available in health and safety file.
4. Person or organization responsible for arranging disconnection of supplies with appropriate authorities: Contractor.
5. Timing: Before demolition works start.

Ac_10_10_25/640 Bypass connections for supplies before demolition

1. Temporary bypass of services
 - 1.1. Required actions: Provide as necessary to maintain continuity of services to occupied areas of the site and adjoining properties.
 - 1.2. Timing: Complete bypass of services before demolition works start.
2. Temporary shutdown of supplies
 - 2.1. Communications: Give notice to occupiers.
 - 2.2. Notice to occupiers (minimum): 48 hours.

Ac_10_10_25/660 Health hazards during demolition

1. Precautions: Protect site operatives and general public from hazards associated with vibration, dangerous fumes and dust arising during the course of the works.
2. Dangerous openings: Illuminate and protect. Keep safe outside of working hours.
3. Unauthorized persons: Prevent access.

Ac_10_10_25/665 Gas and vapour risks during demolition

1. Requirement: Prevent fire or explosion caused by gas or vapour.

Ac_10_10_25/670 Dust control

1. Requirement: Minimize airborne dust. Keep public roadways and footpaths clear of mud and debris.

Ac_10_10_25/680 Unforeseen hazards

1. Unrecorded voids, tanks, chemicals, etc. discovered during demolition: Give notice immediately.
2. Removal of unforeseen hazards: Submit proposals or Submit method statement.

Ac_10_10_25/690 Treatment of adjoining property affected by demolition

1. Extent of adjoining property: as drawings
2. Requirements: Minimize disturbance. Remove unnecessary or unstable projections. Make safe, secure and weathertight.
3. Foundations of adjoining property: Do not disturb.
4. Defects exposed or becoming apparent: Submit report.

Ac_10_10_25/695 Structures and services to be retained

1. **Removal of structures and services to be retained:** Cut away and strip out with care. Minimize the amount of making good needed.
2. **Damage to structures and services to be retained:** Give notice and notify service authority or owner of damage arising from the execution of the works.
3. **Repairs:** Submit proposals.

Ac_10_10_25/700 Partly demolished structures

1. **Requirement:** Leave in a stable condition. Provide adequate temporary support at each stage. Prevent uncontrolled collapse. Keep safe outside working hours.

Ac_10_10_25/710 Groundworks during demolition

1. **Filling of basements and voids:** refer to structural engineer's information
2. **Removal of contaminated material:** Remove and dispose of contaminated material to appropriate site.
3. **Removal of deleterious material:** Remove material containing toxins, pathogens or other extraneous substances potentially harmful to plant, animal or human life.

Ac_10_10_25/720 Recycled components and materials

1. **Materials arising from demolition work:** Recycling or reuse elsewhere in the project is permitted, subject to compliance with the appropriate specification, and in accordance with the site waste management plan.

System completion

Ac_10_10_25/820 Site condition following completion

1. **Condition of site:** Clean, tidy and secure.

Ω End of Activity

Ss_15_30_15_50 Masonry cleaning systems

Systems

Ss_15_30_15_50 Masonry cleaning systems

1. System performance: [Ss_15_30_15/210 Design of cleaning regime](#)
2. Current reports
 - 2.1. Precontract building fabric surveys: Refer to Conditions Report -
3. Execution: To be carried out in line with approved cleaning method statement - Refer to Condition 4 of Planning Approval Notice - APPLICATION REFERENCE: 23/01241/FUL
4. System completion: [Ss_15_30_15/820 Record of main contract cleaning works](#)

System performance

Ss_15_30_15/210 Design of cleaning regime

1. Completion of design by contractor: Complete the design of the cleaning regime in accordance with relevant parts of [BS 8221-1](#).
2. Qualifications of operatives: Experienced and trained in a variety of cleaning techniques.
3. Requirements
 - 3.1. Levels of cleanliness: In accordance with final report of cleaning trials and Approved Method statement

System completion

Ss_15_30_15/820 Record of main contract cleaning works

1. Requirement: Create and maintain a record of cleaning works from the initial state of the fabric through to completion of the cleaning works.
2. Standard: In accordance with relevant parts of [BS 8221-1](#), clause 4.
3. Content
 - 3.1. Initial state: Photogrammetric drawings of elevations, colour coded to show areas to be cleaned.
 - 3.2. Record: Cleaning methods and procedures used for each type of surface and deposit.
4. Additional documentation: In accordance with final report of cleaning trials and Approved Method statement
5. Submission: At completion of cleaning works.

Ω End of System

Ss_15_30_50_50 Masonry repair systems

Systems

Ss_15_30_50_50 Masonry repair systems

1. Description: Masonry Repair Generally
2. System performance: Repair work to damaged brick. Refer to Demolition & Enabling drawings.

Repair work to areas damaged during demolition.
3. Pre-tender survey
 - 3.1. Survey report: Refer to Condition Survey Report CS000091 Rochdale Borough Council (07.02.2023)
 - 3.2. Survey limitations: As Survey report.
4. Treatment materials to unwanted plant root systems: Refer to report
5. Replacement materials
 - 5.1. Materials: Use existing brick where possible. If not possible, use proposed brick approved by LPA and outline in approved planning notice.
 - 5.2. Attachment: To match existing mortar.
 - 5.3. Masonry pointing mortar: As recommended by appointed specialist
6. Joint reinforcement
 - 6.1. Type: As recommended by appointed specialist
 - 6.2. Making good: As recommended by appointed specialist
7. Crack repairs
 - 7.1. Injection repairs
 - 7.2. Mortar repairs
 - 7.2.1. Mortar: As recommended by appointed specialist
8. Samples required: Contract to carry out a test sample to ensure any replacement mortar and brick work matches existing.
9. Execution: [Ss_15_30_50/626 Disturbance to retained masonry during masonry repair](#); [Ss_15_30_50/623 Maintaining structural stability during masonry repair](#); [Ss_15_30_50/620 Handling of masonry units and protection of retained and new masonry](#); [Ss_15_30_50/633 Removal of plant growths for masonry repair](#)
10. System completion: [Ss_15_30_50/810 Record of masonry repair work](#)

Execution

Ss_15_30_50/620 Handling of masonry units and protection of retained and new masonry

1. Masonry units: Do not damage; prevent overstressing. Keep clean, dry and frost free.
2. Masonry: Prevent damage, particularly to arrises, projecting features and delicate, friable surfaces. Prevent mortar/ grout splashes and other staining and marking on facework.

Ss_15_30_50/623 Maintaining structural stability during masonry repair

1. General: Maintain stability of masonry. Report defects, including signs of movement that are exposed or become apparent during the removal of masonry units.

Ss_15_30_50/626 Disturbance to retained masonry during masonry repair

1. Retained masonry in the vicinity of repair works: Disturb as little as possible.
2. Existing retained masonry: Do not cut or adjust to accommodate new or reused units.
3. Retained loose masonry units and those vulnerable to movement during repair works: Prop or wedge. Position firmly and correctly.

Ss_15_30_50/633 Removal of plant growths for masonry repair

1. Plants, root systems and associated soil/ debris: Carefully remove from joints, voids and facework.
2. Removal of deep roots: Where growths cannot be removed completely without disturbing masonry seek instructions.
3. Unwanted plants close to masonry: Where removal of root system is not possible or desirable, cut through stem as close to the ground as possible. Remove bark from stump and apply selective herbicides, and leave stump to wither.

System completion

Ss_15_30_50/810 Record of masonry repair work

1. Work carried out to masonry: Record clearly and accurately using written descriptions, sketches, drawings and photographs, as necessary.
2. Specific records: *Photo survey / drawings marked up to show replacement brickwork and areas of core grouting, repointing, resin repairs to cracked stones. Elevational drawings produced by terracotta manufacturer showing locations of replacement blocks (with reference codes) and new fixings.*
3. Documentation
 - 3.1. Timing: Submit on completion of the work.
 - 3.2. Number of sets: Digital Copy

Ω End of System

Ss_25_10_20_85 Stick curtain walling systems

Systems

Ss_25_10_20_85 Stick curtain walling systems

1. System performance: Ss_25_10_20/205 Design submittals; Ss_25_10_20/210 Curtain wall system design; Ss_25_10_20/215 Quality management; Ss_25_10_20/220 Structural performance; Ss_25_10_20/225 Thermal movement; Ss_25_10_20/235 Fire performance to BS EN 13501; Ss_25_10_20/240 Water penetration; Ss_25_10_20/245 Avoidance of condensation; Ss_25_10_20/250 Acoustic performance – sound transmittance; Ss_25_10_20/255 Air permeability; Ss_25_10_20/260 Thermal performance; Ss_25_10_20/270 Solar energy transmittance (solar factor); Ss_25_10_20/275 Safety performance; Ss_25_10_20/280 Durability; Ss_25_10_20/290 Openings and accessories in curtain wall systems; Ss_25_10_20/291 Laboratory testing; Ss_25_10_20/299 Compliance with performance requirements; Ss_25_10_20/298 Wind load fatigue test for small specimen
2. System manufacturer: Senior Architectural Systems Ltd
3. Contact details
 - 3.1. Address: Eland Road
Denaby Main
Doncaster
South Yorkshire
DN12 4HA
 - 3.2. Telephone: +44 (0)1709 772600
 - 3.3. Web: www.seniorarchitectural.co.uk
 - 3.4. Email: info@sasmail.co.uk
4. Product reference - Curtain Walling: SF52 Fully Capped Curtain Wall System (Mullion drained)
5. Product reference - Door System: PRe® Commercial Door System
6. System performance: Air permeability: 600 Pa, Water tightness: 600 Pa; Wind resistance: 2400 Pa.
7. Framing
 - 7.1. Frame members: Aluminium curtain wall frame sections, mullion drained.
 - 7.2. Frame accessories: Fully capped.
8. Cladding units
 - 8.1. Glass units: As manufacturer's' System
 - 8.2. Glazing accessories: As manufacturer's' System
9. System accessories: Aluminium/ co-extruded plastic pressure plate.
10. Colour/ Finish: Polyester powder coating.
11. Framing
 - 11.1. Frame members: Pr_20_76_51_02 Aluminium curtain wall frame sections
 - 11.2. Frame accessories: Pr_35_90_28_15 Cover caps
12. Cladding units
 - 12.1. Glass units: Toughened glass
 - 12.2. Glazing accessories: Pr_20_85_32_04 Aluminium structural sealant glazing subframes
 - 12.3. Panels and facings
 - 12.3.1. Material: Pr_25_71_42_08 Aluminium infill panels
 - 12.3.2. Thermal insulation: Pr_25_57_06_50 Mineral fibre slab insulation
 - 12.4. Perimeter seals: Pr_35_90_33_20 Curtain wall glazing and panel gaskets

13. System accessories: [Pr_35_90_33_26 Ethylene propylene diene monomer \(EPDM\) rubber section glazing trims](#)
14. Execution: [Ss_25_10_20/610 Preconstruction survey](#); [Ss_25_10_20/615 Curtain wall assembly and erection](#); [Ss_25_10_20/620 Execution tolerances](#); [Ss_25_10_20/625 Fixing anchor installation](#); [Ss_25_10_20/630 Installing accessories in curtain walling](#); [Ss_25_10_20/635 Installing fire and smoke stops](#); [Ss_25_10_20/625 Fixing anchor installation](#)
15. System completion: [Ss_25_10_20/810 Maintenance and replacement](#); [Ss_25_10_20/895 Verification of performance](#)

System performance

Ss_25_10_20/205 Design submittals

1. Preliminary design
 - 1.1. Submittals: Submit the following curtain walling particulars:
 - Typical plan, section and elevation drawings at suitable scales.
 - Typical detailed drawings at large scales, including all junctions and interfaces with finishes.
 - Technical information and certification demonstrating compliance with specification of proposed incorporated products and finishes, including all opening and fixed lights.
 - Certification, reports and calculations demonstrating compliance with specification of proposed curtain walling.
 - Proposals for connections to and support from the building structure and building components.
 - Proposals for amendments to primary supporting structure and for secondary supporting structure additional to that shown on preliminary design drawings.
 - Schedule of builder's work, special provisions and special attendance by others.
 - Examples of standard documentation from which project quality plan will be prepared.
 - Preliminary fabrication and installation method statements and programme.
 - Schedule of products and finishes with a design life expectancy less than that specified in proposals for frequencies and methods of replacement.
 - Proposals for replacing damaged or failed products.
 - Areas of non-compliance with the specification.
2. Detailed design
 - 2.1. Submittals: A schedule of detailed drawings and dates for submission for comment.
A schedule of loads that will be transmitted from the curtain walling to the structure.
Proposed fixing anchor details relevant to structural design and construction.
A detailed fabrication and installation programme in compliance with the main contract master programme.
Project specific method statement in accordance with CWCT [Standard for systemised building envelopes](#) and guidance in CWCT Technical Note 53.
3. Format: Drawings and specification in BIM compliant format. System certification, reports and calculations. Product technical information and certification.

Ss_25_10_20/210 Curtain wall system design

1. Design requirements: Complete the design of the curtain walling system and associated features.
2. Standard: In accordance with [BS EN 13830](#) and the CWCT [Standard for systemised building envelopes](#).
3. Curtain wall selection: Proprietary.
4. Method of weathersealing: Drained and ventilated.

5. **Appearance and fit:** Ensure position and alignment of parts and features as shown on preliminary design drawings. Accommodate deviations in the primary support structure.
6. **Related works:** Coordinate in the detailed design.
7. **Comparison or type testing:** To [BS EN 13830](#) and the CWCT [Standard for systemised building envelopes](#), Part 8.
8. **Detailed design:** Complete and submit proposals for approval before fabrication.

Ss_25_10_20/215 Quality management

1. **Required documentation:** Project specific method statement in accordance with CWCT [Standard for systemised building envelopes](#) and guidance in CWCT Technical Note [TN 53](#).
2. **Timing:** Submit during detailed design.

Ss_25_10_20/220 Structural performance

1. **Standard:** In accordance with [BS EN 13830](#) and the [CWCT Standard for systemised building envelopes](#).
2. **Loads:** Resist wind loads, dead loads and design live loads.
3. **Deflections and movements:** Accommodate without damage.
4. **Deflection under dead load**
 - 4.1. **Frame members:** Deflection of framing members parallel to the curtain walling plane must not reduce glass bite, edge clearance and general clearance below minimum stated requirements.
 - 4.2. **Glass bite (minimum):** 75% of design dimension.
 - 4.3. **Edge clearance (minimum):** 3 mm between members and immediately adjacent glazing units, panel or facing units, or other fixed units.
 - 4.4. **Clearance (minimum):** 2 mm between members and movable components such as doors and windows.
5. **General movement:** Anticipated building movements to be accommodated
6. **Impact performance**
 - 6.1. **Safety impact requirements:** To CWCT [TN75](#), High risk.
 - 6.2. **Serviceability impact requirements:** To CWCT [TN75](#), serviceability Class 3.
 - 6.3. **External impact exposure**
 - 6.3.1. **Exposure category :** To CWCT [TN75](#), exposure category A.
 - 6.3.2. **Impact location:** Impact by People & Impact by Furniture or objects during show 'get ins' To be in line with CWCT [TN75](#) & [BS 5234-2](#)
 - 6.4. **Hard and soft body impact loads**
 - 6.5. **Impact tests**
 - 6.5.1. **Hard body impact tests:** In accordance with CWCT Standard test methods for building envelopes and [TN76](#) (curtain wall).
 - 6.5.2. **Soft body impact tests:** In accordance with [BS EN 13049](#) (curtain wall). In accordance with CWCT Standard test methods for building envelopes and [TN76](#) (curtain wall).
 - 6.6. **Location:** Externally Front elevation
7. **Imposed loads**
 - 7.1. **Standard:** In accordance with [BS EN 1991-1-1](#).

Ss_25_10_20/225 Thermal movement

1. **Standards:** In accordance with [BS EN 13830](#) and the [CWCT Standard for systemised building envelopes](#).

2. Service temperature range: Temperature range within CWCT [Standard for systemised building envelopes](#), clause 2.7.2, Tables 2.2 and 2.3.

Ss_25_10_20/235 Fire performance to BS EN 13501

1. Manufacturer: [Siderise Group](#)
2. Contact details
 - 2.1. Address: Forge Industrial Estate
Maesteg
Bridgend
Mid Glamorgan
United Kingdom
CF34 0AH
 - 2.2. Telephone: [+44 \(0\)1656 730833](tel:+441656730833)
 - 2.3. Web: www.siderise.com
 - 2.4. Email: projects@siderise.com
3. Product reference: [Siderise CW-FS Perimeter Barrier and Fire stop for Curtain Walling \(CW-CB30\)](#)
4. Material
 - 4.1. Third-party certification: Certifire certificate CF 563.
 - 4.2. Type: Semi-rigid.
 - 4.3. Density: 75 kg/m³.
 - 4.4. Facing: Aluminium foil to both sides.
5. Fire performance: To EN 13501-1, Class A1.
6. Sound insulation rating: 21 dB (Rw).
7. Third-party certification: Certifire.
8. Fixing brackets:
9. Thickness: 75 mm.
10. Compression: +10%.
11. Fire resistance (integrity and insulation): To EN 1366-4 - Integrity (E): 60 minutes (Horizontal Orientation), 90 minutes (Vertical Orientation); Insulation (I): 30 minutes.
12. Fire resistance
 - 12.1. Classification: To [BS EN 13501-2](#), Class E 15.
 - 12.2. Direction: 'I>O' – Inside to outside.
13. Reaction to fire classification
 - 13.1. External surfaces: *Class B-s3, d2 or better.*
 - 13.2. Internal surfaces: *Class B-s3, d2 or better.*
14. Combustibility: Limited combustibility, as defined in Building Regulations Approved Documents B2, paragraph 9 and Table A7 (England and Wales).
15. Firestops: A1
16. Assessment authority: Submit details. UKAS accredited.

Ss_25_10_20/240 Water penetration

1. Watertightness
 - 1.1. Class: To [BS EN 12154](#), Class R7.
 - 1.2. Peak test pressure: 600 Pa.

Ss_25_10_20/245 Avoidance of condensation

1. **Interstitial condensation:** Minimize the risk of condensation forming on building interior surfaces of framing members or any part of infill panels or facings under notional psychrometric conditions.
2. **Risk of interstitial condensation:** Determine risk in accordance with [BS 5250](#), Annex D and provide effective vapour control.
3. **Notional outdoor psychrometric conditions:** As [BS 6229](#), Table A1.
4. **Winter interstitial condensate**
 - 4.1. Calculated amount (maximum): 0.35 kg/m².
 - 4.2. Calculated annual net retention: Nil.

Ss_25_10_20/250 Acoustic performance – sound transmittance

1. **Standards:** To [BS EN ISO 10140-2](#) and [BS EN ISO 717-1](#).
2. **Weighted sound reduction index (Rw)**
 - 2.1. Standard: To [BS EN ISO 717-1](#).
3. **Weighted standardized level difference (DnTw) (minimum)**
 - 3.1. Standard: To [BS EN ISO 717-1](#).

Ss_25_10_20/255 Air permeability

1. **Permeability class:** To [BS EN 12152](#), Class A4.
2. **Peak test pressure:** 600 Pa.
3. **Air exfiltration rate (maximum):** To be determined as part of the whole building performance in section PM_35.
4. **Air leakage rates (maximum) when subjected to peak test pressure**
 - 4.1. Fixed lights: 1.5 m³/hr/m².
 - 4.2. Opening lights: 2.0 m³/hr/lin.m.

Ss_25_10_20/260 Thermal performance

1. **Standards:** In accordance with [BS EN ISO 12631](#) and [BS EN ISO 12567-1](#).
2. **Method of calculating thermal transmittance (U-value):** Weighted U-value of system.
3. **Method for assessing thermal transmittance (U-value) of assemblies:** By calculation.
4. **Average U-value:**

1.4W/m² K
5. **Zone interfaces:** Co-ordinate to achieve required average U-value.

Ss_25_10_20/270 Solar energy transmittance (solar factor)

1. **Standard:** To [BS EN 410](#).
2. **Solar factor, g-value (glazing only) (maximum):** 0.40.
3. **Calculation:** In accordance with [BRE Trust Report FB 9](#).

Ss_25_10_20/275 Safety performance

1. **Finished surfaces in accessible internal and external areas:** Free of irregularities capable of inflicting personal injury. Free of release irritant or staining substances.
2. **Thermal stress:** The curtain wall system should provide adequate resistance to thermal stress generated by orientation, shading, solar control and construction.

Ss_25_10_20/280 Durability

1. Primary components
 - 1.1. Component: External cover caps. Internal framing members. Internal framing members fasteners. Infill units. Perimeter flashings. Perimeter metal sills. Trims.
 - 1.2. Design life duration (minimum): 30 years.
2. Secondary components
 - 2.1. Component: Cover strips. Glazing gaskets. Glazing sealants.
 - 2.2. Design life duration: Submit details for each product together with required maintenance regime, replacement periods and methods of replacement.
3. Electrolytic corrosion: Prevent.
4. Submittals: Prior to completion of detailed design, submit required maintenance regime, replacement periods and methods of replacement for approval.

Ss_25_10_20/290 Openings and accessories in curtain wall systems

1. Standard: To CWCT [Standard for systemised building envelopes](#), Section 4.
2. Opening lights: To CWCT [Standard for systemised building envelopes](#), clause 4.2.
3. Doorsets: To CWCT [Standard for systemised building envelopes](#), clause 4.3.
4. Smoke vents: To CWCT [Standard for systemised building envelopes](#), clause 4.4.
5. Louvres: To CWCT [Standard for systemised building envelopes](#), clause 4.5.
6. Interfaces around openings: To CWCT [Standard for systemised building envelopes](#), clause 4.6.
7. Accessories: To CWCT [Standard for systemised building envelopes](#), clause 4.7 and 4.8.

Ss_25_10_20/291 Laboratory testing

1. Testing: Arrange for laboratory testing of specimens of curtain walling and components.
2. Criteria: CWCT Standard sequence A.
3. Timing: During detailed design.
4. Testing authority: Curtain walling manufacturer or contractor.
5. Test results and reports: Before curtain walling installation, submit proof of compliance with this specification.

Ss_25_10_20/298 Wind load fatigue test for small specimen

1. Test standard: To CWCT [Standard for systemised building envelopes](#), Standard test methods for building envelopes, Section 14.
2. Test sequence: Tabulated, as CWCT [Standard for systemised building envelopes](#).

Ss_25_10_20/299 Compliance with performance requirements

1. Requirement: Specialist subcontractor or supplier to determine whether retest of curtain walling is required following guidelines in [BS EN 13830](#), Table H.1.
Proof of compliance with specified performance.
2. Method
3. Testing
 - 3.1. Standard: To CWCT [Standard for systemised building envelopes](#), Section 8.5.
 - 3.2. Requirements: Testing of proprietary envelope.
4. Submittals
 - 4.1. Format: *Declaration of Performance for curtain wall component and ancillary products.*

Products

Pr_20_76_51_02 Aluminium curtain wall frame sections

1. Manufacturer: Submit proposals
2. Standard: To relevant parts of [BS EN 515](#), BS EN 573, BS EN 755 and BS EN 12020.
3. Alloy, temper and thickness: Suitable for the application and finish.
4. Structural members: To [BS EN 1999-1-1](#), [BS EN 1999-1-3](#) and [BS EN 1999-1-4](#).
5. Finish
 - 5.1. Coating: Powder coating to [BS EN 12206-1](#).
 - 5.2. Colour: black RAL 9005
 - 5.3. Texture: Matt.
6. Accessories: External cover caps. Glazing toggling. Pressure plates.

Pr_20_85_32_04 Aluminium structural sealant glazing subframes

1. Manufacturer: Contractor's choice
2. Standard: To relevant parts of [BS EN 515](#), BS EN 573, BS EN 755 and BS EN 12020.
3. Alloy, temper and thickness: Suitable for the application and finish.
4. Structural members: To [BS EN 1999-1-1](#), [BS EN 1999-1-3](#) and [BS EN 1999-1-4](#).
5. Finish
 - 5.1. Coating: Powder coating to [BS 6496](#).
 - 5.2. Colour: Bronze. RAL TBC
 - 5.3. Texture: Satin.

Pr_25_57_06_50 Mineral fibre slab insulation

1. Manufacturer: Contractor's choice
2. Standard: To [BS EN 13162](#).
3. Third-party certification: Accreditation by the United Kingdom Accreditation Service (UKAS).
4. Thickness (minimum): 75 mm.
5. Facing: Metal foil laminate.
6. Edges: Square.
7. Fire performance: Non Combustible - A1, as defined in BS EN 13501-1

Pr_25_71_42_08 Aluminium infill panels

1. Description: Blank Infill Spandrel Panels
2. Manufacturer: Contractor's choice
3. Standards: [BS EN 485-1](#) and [BS EN 485-2](#).
4. Size (height x width): Refer to design drawings
5. Panel finish: Manufacturers standard
6. Colour: Bronze. RAL colour tbc - To match curtain walling frame and caps.
7. Reaction to fire
 - 7.1. Panel external face: Class B-s3, d2 or better.
 - 7.2. Panel internal face: No required

Pr_35_90_28_15 Cover caps

1. Description: Curtain wall caps

2. Manufacturer: Contractor's choice
3. Material: Aluminium.
4. Profile: Rectangular.
5. Purpose: Mullions. & Transoms.
6. Size: Refer to design drawings.
7. Finish: Powder coating to [BS EN 12206-1](#).
8. Film thickness (minimum): Coating applicator to determine.
9. Colour: Bronze. RAL colour tbc - To match curtain walling frame and caps.
10. Sheen: Satin.
11. Fixing: Screw fixing with cover cap. Submit proposals
12. Verification
 - 12.1. Submittals: *Declaration of Performance or Conformity.*
Third-party certification in respect of structural performance.
Manufacturer's certification.
Safety data sheet.
Test results, report and certification from an accredited testing facility.
Drawings, schedules, technical information, calculations and manufacturer's literature.
 - 12.2. Timing: *Before placement of orders.*
Before commencement of installation.

Pr_35_90_33_20 Curtain wall glazing and panel gaskets

1. Manufacturer: Contractor's choice
2. Material: To [BS 4255-1](#), black EPDM rubber.
3. Gasket type: Glazing.
4. Corners: Site-formed.

Pr_35_90_33_26 Ethylene propylene diene monomer (EPDM) rubber section glazing trims

1. Manufacturer: Contractor's choice
2. Standard: To [BS 4255-1](#).
3. Trim type: Submit Proposals
4. Colour: Black.

Execution

Ss_25_10_20/610 Preconstruction survey

1. Primary support structure: Carry out survey sufficient to verify that required accuracy and security of erection can be achieved.
2. Notification: Submit details of non-compliant structure.

Ss_25_10_20/615 Curtain wall assembly and erection

1. Accuracy: As specified in CWCT [Standard for systemised building envelopes](#), clause 2.20 for fabrication and erection.
2. Assembly works: Carry out as much assembly as possible in the workshop.
3. Joints (other than movement joints): Rigidly secure. Reinforce where necessary. Fix with hairline abutments.
4. Identification of products: When marking or tagging products to facilitate identification during handling, storage, assembly and installation, do not mark any surfaces visible in the completed installation.

5. **Securing to fixing anchors:** Through holes formed during fabrication only.
6. **Tightening mechanical fasteners:** To manufacturer's recommended torque figures. Do not overtighten fasteners intended to permit differential movement.
7. **Closers and flashings:** Correctly form and locate to provide weathertight junctions between the curtain wall system and the adjacent building fabric. Junctions must provide the same level of weathertightness and sealing as the curtain wall system.
8. **Protective coverings:** Remove prior to completion only where necessary to facilitate installation and from surfaces that will be inaccessible on completion.
9. **Interfaces:** Locate flashings, closers, etc. correctly. Neatly overlap to form a weathertight junction.

Ss_25_10_20/620 Execution tolerances

1. **Standard:** In accordance with the CWCT [Standard for systemised building envelopes](#), Section 7.
2. **Accuracy of erection**
 - 2.1. **Line:** ± 2 mm of any line expressed by the framing or panels in any one storey height, or structural bay width, and ± 5 mm overall.
 - 2.2. **Level:** ± 2 mm of horizontal in any one structural bay width, and ± 5 mm overall.
 - 2.3. **Plumb:** ± 2 mm of vertical in any one storey height, and ± 5 mm overall.
 - 2.4. **Plane:** ± 2 mm of the principal plane in any one storey height, or structural bay width, and ± 5 mm overall.

Ss_25_10_20/625 Fixing anchor installation

1. **Fixing positions:** Clearly identify positions of all site drillings or cuttings not shown on detailed drawings.
2. **Concrete supporting structure:** Protect cavities in inserts from entry of concrete.
3. **Cast-in inserts:** Cast-in inserts must be held in place by formwork, not attached to reinforcement. Drilled-in fixings to slab edges must only be used for light stick systems.
4. **Location of inserts:** Submit detailed information prior to casting.
5. **Edge fixing distances (minimum):** Recommended by fixing anchor manufacturers.
6. **Corrective fabrication:** Minimize.

Ss_25_10_20/630 Installing accessories in curtain walling

1. **Accessories**
 - 1.1. **Type:** Doorsets.
 - 1.2. **Size:** Refer to design drawings
 - 1.3. **Fixing method:** In line with design drawings and manufacturers recommendations.
 - 1.4. **Weatherstripping:** Fix in undercut grooves in framing sections using preformed corners, with joints in the length.
2. **Fire-stopping**
 - 2.1. **Positioning:** Locate at junctions of curtain walling with compartment walls and floors.
 - 2.2. **Minimum fire resistance including fixings:** The same as that specified for compartment walls and floors.
3. **Thermal insulation:** Attach to or support within the curtain walling so as not to bulge, sag, delaminate or detach during installation or in situ during the life of the curtain walling.
4. **Vapour control layer:** Locate on warm side of thermal insulation. Fit continuously and seal at joints.
5. **Hardware:** Assemble and fix accurately, using fasteners with matching finish supplied by hardware manufacturer. On completion check, adjust and lubricate as necessary to ensure correct functioning.

Ss_25_10_20/635 Installing fire and smoke stops

1. **Fire and smoke stops:** Fire and smoke stops to be located at all junctions between the curtain wall and compartment or separating walls and floors. To be installed strictly in accordance with manufacturers' guidelines and as recommended in [CWCT Technical Note TN 98](#).
2. **Installer qualification:** To be a member of a [UKAS](#) accredited installer scheme.

System completion

Ss_25_10_20/810 Maintenance and replacement

1. **Curtain wall maintenance manual contents:** Contact details for subcontractors and suppliers.

Design criteria for the curtain wall system.

Product information for components and materials including manufacturers' literature, COSHH data sheets and recommendations for cleaning maintenance and repair.

Copies of material, components and finishes certification and test report.

A full set of construction drawings, updated to include any changes made up to the time of completion.

The terms and conditions of any guarantee.

Method statement for means of access for maintenance and for use of any permanent equipment.

Method statement covering the procedures for replacement of parts that have a design life less than the design life of the curtain wall system.

Recommendations for routine maintenance and cleaning, including suitable cleaning agents and lubrication/ adjustments to working parts.

Record book for listing defects, maintenance and repairs

2. **Dismantling:** Submit recommendations for safe dismantling and recycling or disposal of curtain walling system and products.

Ss_25_10_20/895 Verification of performance

1. **Requirement:** Check completed system and provide assurance of compliance with specified performance.
2. **Submittals**
 - 2.1. **Format:** Curtain wall Declaration of Performance, test results and certification.

Ω End of System

Ss_25_10_30_35 Gypsum board partition systems

Systems

Ss_25_10_30_35 Gypsum board partition systems IWTA

1. System performance: [Ss_25_10_30/205 Design submittals](#)
2. System manufacturer: [British Gypsum](#)
3. Contact details
 - 3.1. Address: East Leake
Loughborough
Leicestershire
United Kingdom
LE12 6JU
 - 3.2. Telephone: [+44 \(0\)844 800 1991](#)
 - 3.3. Web: [www.british-gypsum.com](#)
 - 3.4. Email: [bg.technical@saint-gobain.com](#)
4. Product reference: [GypWall Single Frame - A206015 \(A\) \(EN\)](#)
5. Framing: Base channel: Gypframe 72 FEC 50 Folded Edge Standard Floor & Ceiling Channel.
Head channel: Gypframe 72 FEC 50 Folded Edge Standard Floor & Ceiling Channel.
Stud: Gypframe 70 S 50 'C' Stud.
Abutments and openings: Gypframe 70 S 50 'C' Stud.
6. Linings: Board side 1, Layer 1: Gyproc WallBoard 12.5mm.
Board side 1, Layer 2: Gyproc WallBoard 12.5mm.
Board side 2, Layer 1: Gyproc WallBoard 12.5mm.
Board side 2, Layer 2: Gyproc WallBoard 12.5mm.
7. Fasteners: Screws side 1, Layer 1: British Gypsum Drywall Screws 25mm.
Screws side 1, Layer 2: British Gypsum Drywall Screws 35mm.
Screws side 2, Layer 1: British Gypsum Drywall Screws 25mm.
Screws side 2, Layer 2: British Gypsum Drywall Screws 35mm.
8. Joint treatment: Fixing strap: Gypframe GFS1 Fixing Strap.
9. Finish: To achieve the specified performances, the system should be finished using either one of our Thistle or ThistlePro plasters, or Gyproc jointing products. See the product range guides on the British Gypsum website for more information.
10. System accessories: Sealant: Gyproc Sealant.
11. Execution: Please review details on the British Gypsum website at: <https://www.british-gypsum.com/Specification/White-Book-Specification-Selector/internal-partitions-walls/GypWall-Single-Frame/A206015-A-EN#details>
12. Fire resistance: BS EN 1364-1, 30 / 30 Integrity / Insulation
13. Sound insulation: BS EN ISO 140-3, 45 Rw dB
14. Strength grade: BS 5234-2, Severe duty (SD)
15. Partition height: 4200mm
16. Partition thickness: 122mm
17. Fire separation
 - 17.1. Fire-stopping: *Seal gaps at junctions of partitions with perimeter abutments, cavity barriers, service penetrations.*
18. Execution: [Ss_25_10_30/610 Installing framed partitions generally](#); [Ss_25_10_30/620 Installing partitions onto new concrete and screeds](#); [Ss_25_10_30/630 Installing framing for partitions](#); [Ss_25_10_30/650 Installing deflection heads](#); [Ss_25_10_30/660 Installing plasterboard to metal](#)

framing; Ss_25_10_30/695 Installing insulation and cavity barriers in framed partitions;
Pr_35_31_64/715 Finish to plaster

19. System completion: Ss_25_10_30/895 Verification of performance

Ss_25_10_30_35 Gypsum board partition systems IWTB

1. System performance: Ss_25_10_30/205 Design submittals
2. System manufacturer: British Gypsum
3. Contact details
 - 3.1. Address: East Leake
Loughborough
Leicestershire
United Kingdom
LE12 6JU
 - 3.2. Telephone: +44 (0)844 800 1991
 - 3.3. Web: www.british-gypsum.com
 - 3.4. Email: bg.technical@saint-gobain.com
4. Product reference: British Gypsum A206015 (A) MR1 (EN)
5. Framing: Base channel: Gypframe 72 FEC 50 Folded Edge Standard Floor & Ceiling Channel.
Head channel: Gypframe 72 FEC 50 Folded Edge Standard Floor & Ceiling Channel.
Stud: Gypframe 70 S 50 'C' Stud.
Abutments and openings: Gypframe 70 S 50 'C' Stud.
6. Linings: Board side 1, Layer 1: Gyproc WallBoard 12.5mm.
Board side 1, Layer 2: Gyproc WallBoard 12.5mm.
Board side 2, Layer 1: Gyproc WallBoard 12.5mm.
Board side 2, Layer 2: Gyproc Moisture Resistant WallBoard 12.5mm.
7. Fasteners: Screws side 1, Layer 1: British Gypsum Drywall Screws 25mm.
Screws side 1, Layer 2: British Gypsum Drywall Screws 35mm.
Screws side 2, Layer 1: British Gypsum Drywall Screws 25mm.
Screws side 2, Layer 2: British Gypsum Drywall Screws 35mm.
8. Joint treatment: Fixing strap: Gypframe GFS1 Fixing Strap.
9. Finish: To achieve the specified performances, the system should be finished using either one of our Thistle or ThistlePro plasters, or Gyproc jointing products. See the product range guides on the British Gypsum website for more information.
10. System accessories: Sealant: Gyproc Sealant.
11. Execution: Please review details on the British Gypsum website at: <https://www.british-gypsum.com/Specification/White-Book-Specification-Selector/internal-partitions-walls/GypWall-Single-Frame/A206015-A-EN#details>
12. Fire resistance: BS EN 1364-1, 30 / 30 Integrity / Insulation
13. Sound insulation: BS EN ISO 140-3, 45 Rw dB
14. Strength grade: BS 5234-2, Severe duty (SD)
15. Partition height: 4200mm
16. Partition thickness: 122mm
17. Execution: Ss_25_10_30/610 Installing framed partitions generally; Ss_25_10_30/620 Installing partitions onto new concrete and screeds; Ss_25_10_30/630 Installing framing for partitions;
Ss_25_10_30/650 Installing deflection heads; Ss_25_10_30/660 Installing plasterboard to metal framing; Ss_25_10_30/695 Installing insulation and cavity barriers in framed partitions;
Pr_35_31_64/715 Finish to plaster
18. System completion: Ss_25_10_30/895 Verification of performance

System performance

Ss_25_10_30/205 Design submittals

1. Detailed design
 - 1.1. Requirement: Technical Pack from Chosen Supplier for review.
 - 1.2. Purpose: For review & coordination and to demonstrate compliance with performance requirements.
 - 1.3. Submittals: Typical plan, section and detail drawings at suitable scales.
 - 1.4. Timing: Ahead of manufacture and with suitable time for review.
 - 1.5. Format: Drawings & Specifications.

Execution

Pr_35_31_64/715 Finish to plaster

1. Finish: Smooth.
2. Appearance
 - 2.1. Smooth finish
 - 2.1.1. Generally: A tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks. No crazing.
 - 2.1.2. Standard of finish: To [BS EN 13914-2](#), level 3.
 - 2.2. Wood float finish: An even overall texture. Finish with a dry wood float as soon as wet sheen has disappeared.
 - 2.3. Textured and patterned finishes: Consistent and even. Carry out work on each surface as one continuous operation.

Ss_25_10_30/610 Installing framed partitions generally

1. Standard: To [BS 8000-0](#) and [BS 8212](#).
2. Deviations and tolerances
 - 2.1. Vertical deviation (maximum): ± 5 mm measured above or below the setting out position, in accordance with [BS 8212](#), clause 3.3.2.
 - 2.2. Horizontal deviation (maximum): ± 3 mm measured at the setting out level (ceiling or floor), in accordance with [BS 8212](#), clause 3.3.2.
 - 2.3. Finished surfaces: Maximum deviation band of 10 mm in accordance with [BS 8212](#), clause 3.3.3.
3. Coordination: *Check designated routes for service runs and outlets, lighting positions and other services in floors, walls and ceilings.*
Do not obstruct floor or wall outlets and access panels. Do not obstruct lighting positions, sprinkler heads, smoke detectors.
4. General environmental conditions: Before, during and after installation, maintain consistent temperature and humidity levels.
5. Humidity levels: Similar to those that will prevail after building is occupied.

Ss_25_10_30/620 Installing partitions onto new concrete and screeds

1. Dpcs
 - 1.1. General: Partitions to be laid on strip DPC's onto the floor slab as recommended by manufacturer.
 - 1.2. Abutments: Turn up a minimum of 150 mm where partition frames abut perimeter walls.

2. *Wall linings: Plasterboard partition lining to be kept short of floor by 10-15mm (min.) where new concrete slabs or floor screeds are installed. Gap to be filled with gyproc jointing material to maintain acoustic and fire performance prior to installation of second fix joinery or edge trims.*

Ss_25_10_30/630 Installing framing for partitions

1. Partition height: Room height.
2. Head condition: Metal decking with primary structural frame.
3. Layout: Single row studs.
4. Stud centres (nominal): 450 mm.
5. Setting out
 - 5.1. General: Accurately align and plumb.
 - 5.2. Frame and stud positions: Equal centres, to suit linings. Maintain sequence across openings.
 - 5.3. Additional supports: For sanitary appliances.
6. Fixing perimeter framing to supporting structures: Fix at maximum 600 mm centres.
7. Head deflection allowance (maximum): 15 mm. Refer to SE information.
8. Openings
 - 8.1. General: Form accurately.
 - 8.2. Openings for doorsets: Provide sleeved or boxed metal studs and/ or suitable timber framing to achieve strength grade requirements for framing assembly and adequately support weight of door.
 - 8.3. Services penetrations: Allow for associated fire-stopping.

Ss_25_10_30/650 Installing deflection heads

1. Deflection head detail: Refer to design drawings and manufacturers information for installation requirements.
2. Head movement allowance: As required by manufacturer
3. Fixing: Do not fix boards to head framing channels. Do not fix head framing directly to soffit linings or metal decking.

Ss_25_10_30/660 Installing plasterboard to metal framing

1. Wall linings: Fix securely.
2. Fixing centres (maximum)
 - 2.1. Single layer boarding: 300 mm centres generally and 200 mm centres at external angles.
3. Multilayer boarding: Inner layers at 300 mm centres round perimeters; face layer at 300 mm centres.
4. Fixing positions: Position screws 10 mm minimum from edges of boards.
5. Screw heads: Set in a depression. Do not break paper or gypsum core.

Ss_25_10_30/695 Installing insulation and cavity barriers in framed partitions

1. Insulation
 - 1.1. Fitting: Secure with closely butted joints and no gaps.
 - 1.2. Rigid insulation: Fit tightly between studs.
2. Non-rigid insulation : Fix at head of frame using timber battens or metal clips.
3. Cavity barriers
 - 3.1. Generally: Form accurately with no gaps at joints and perimeters. Mechanically fix securely across full width of cavity.

- 3.2. **Fire-rated partitions:** Include cavity barriers to ceiling or floor void above, below or between partitions. Provide same rating for barrier as partition.
- 3.3. **Junctions:** Seal perimeter abutments, service penetrations, etc. Prevent penetration of smoke and flame.

System completion

Ss_25_10_30/895 Verification of performance

- 1. **Requirements:** *Check completed system and provide assurance of compliance with specified performance.*
- 2. **Submittals**
 - 2.1. **Format:** *Drawings, schedules, technical information, calculations and manufacturer's literature.*
 - 2.2. **Timing:** *At completion of installation*

Ω End of System

Ss_25_10_32_45 Light steel wall framing systems

Systems

Ss_25_10_32_45 Light steel wall framing systems Type A

1. Description: New SFS to External Wall
2. System performance: [Ss_25_10_32/205 Design submittals](#)
3. System manufacturer: [Metsec \(voestalpine Metsec\)](#)
4. Contact details
 - 4.1. Address: Broadwell Road
Oldbury
West Midlands
B69 4HF
 - 4.2. Telephone: +44 (0) 121 601 6000
 - 4.3. Web: www.metsec.com
 - 4.4. Email: david.atkinson@voestalpine.com
5. Product reference: [Metsec SFS Infill Wall with CORETEX Sheathing Board, BG Internal Boards, Fire performance 90 min \(non boundary\) \(C1-N150-B20 \(R75\) - 150 mm stud\)](#)
6. System performance: Structural design supervision and checking.
Design of framing systems generally.
7. Framing members: Cold-formed galvanized steel sections.
8. Connections
 - 8.1. Connection fasteners: Self drilling tek screws.
9. Anchors to concrete and masonry
 - 9.1. Type of anchor: By structural engineers design.
10. Movement joints: Deflection allowance at the top of the wall.
11. Insulation: Rockwool RWA45 (between framing) to meet 0.15 W/m²K
12. Sheathing board: Obex CORETEX - 12 mm.
13. Framing: Metsec SFS 150 mm stud depth.
14. Inner layer: British Gypsum Fire Board, 12.5 mm.
15. Face layer: British Gypsum Fire Board, 12.5 mm.
16. Fasteners: Drywall screws.
17. System accessories: Flatstrap / partition brace.
18. Internal face: 60/ 90 minutes (insulation/ integrity).
19. External face: 0/ 0 minutes (insulation/ integrity).
20. Fire performance: 0 minutes (boundary wall); 90 minutes (non-boundary wall).
21. Thermal performance (U-value maximum): Variable.
22. Air tightness: Variable. [Pr_25_57_65_60 Plastics sheets](#)
23. Dimensional constraints: 187 mm.
24. System completion: [Ss_25_10_32/850 Verification of performance](#)

Ss_25_10_32_45 Light steel wall framing systems Type B

1. Description: At parapet level.
2. System performance: [Ss_25_10_32/205 Design submittals](#)
3. System manufacturer: [Metsec \(voestalpine Metsec\)](#)

4. Contact details

- 4.1. Address: Broadwell Road
Oldbury
West Midlands
B69 4HF
- 4.2. Telephone: +44 (0) 121 601 6000
- 4.3. Web: www.metsec.com
- 4.4. Email: david.atkinson@voestalpine.com
- 5. Product reference: [Metsec SFS Infill Wall with CORETEX Sheathing Board, BG Internal Boards, Fire performance 90 min \(non boundary\) \(C1-N100-B20 \(R75\) - 100 mm stud\)](#)
- 6. System performance: Structural design supervision and checking.
Design of framing systems generally.
- 7. Framing members: Cold-formed galvanized steel sections.
- 8. Connections
 - 8.1. Connection fasteners: Self drilling tek screws.
- 9. Anchors to concrete and masonry
 - 9.1. Type of anchor: By structural engineers design.
- 10. Movement joints: Deflection allowance at the top of the wall.
- 11. Insulation: Rockwool RWA45 (between framing).
- 12. Sheathing board: Obex CORETEX - 12 mm.
- 13. Framing: Metsec SFS 100 mm stud depth.
- 14. Face layer: Knauf Aquapanel or equal for parapet internal face and roof waterproofing.
- 15. Fasteners: Drywall screws.
- 16. System accessories: Flatstrap / partition brace.
- 17. Internal face: 60/ 90 minutes (insulation/ integrity).
- 18. External face: 0/ 0 minutes (insulation/ integrity).
- 19. Fire performance: 0 minutes (boundary wall); 90 minutes (non-boundary wall).
- 20. Thermal performance (U-value maximum): Variable.
- 21. Air tightness: Variable. [Pr_25_57_65_60 Plastics sheets](#)
- 22. Dimensional constraints: 137 mm.

System performance

Ss_25_10_32/205 Design submittals

- 1. Detailed design
 - 1.1. Requirement: *Complete the design of the system.*
 - 1.2. Purpose: *To demonstrate compliance with performance requirement and to allow co-ordination of structural elements within the external walls.*
 - 1.3. Design loads: To be confirmed by Structural engineer
 - 1.4. Submittals: Drawings, schedules, technical information, calculations and manufacturers' literature as appropriate. In accordance with Section 3 of the National Structural Steelwork Specification [NSSS](#).
 - 1.5. Timing: *Before preparing fabrication drawings.*
 - 1.6. Format: Digital Copies.

Products

Pr_25_57_65_60 Plastics sheets

1. Manufacturer: [OBEX Protection Ltd](#)
2. Contact details
 - 2.1. Address: Unit 12
Horn Hill Road
Nunnery Park
Worcester
Worcestershire
United Kingdom
WR4 0SX
 - 2.2. Telephone: [+44 \(0\)1905 337800](tel:+44(0)1905337800)
 - 2.3. Web: <https://obexuk.com/>
 - 2.4. Email: Sales@obexuk.com
3. Product reference: [OBEX CORTEX 0230FR Class A2 VCL](#)
4. Material: Fibreglass cloth with a foil backing.
5. Purpose: Air tight, vapour tight and fire protection.
6. Performance characteristics
 - 6.1. Tensile strength (minimum): 1362 N/50mm (longitudinal) and 1349 N/50mm (transverse).
 - 6.2. Tear resistance: 150 N (longitudinal) and 150 N (transverse).
 - 6.3. Elongation to break: 2.8% (longitudinal) and 3.8% (transverse).
 - 6.4. Water vapour resistance (minimum): 12 874 MN·s/g.
 - 6.5. Fire performance: A2-s1, d0.
7. Physical properties
 - 7.1. Colour: Silver foil.
 - 7.2. Dimensions
 - 7.2.1. Thickness (minimum): 0.18 ±0.03 mm.
 - 7.2.2. Width (minimum): 1200 mm.
 - 7.2.3. Roll length (minimum): 50 m.
8. Integral accessories: 0825 Installation Kit .
9. Elongation: 2.8% (longitudinal) and 3.8% (transverse).
10. Watertightness: W1.
11. Water vapour transmission: 2575.35 m.
12. Water vapour permeability: 23 412 266 µ.

System completion

Ss_25_10_32/850 Verification of performance

1. Requirement: *Check completed system and provide assurance of compliance with specified performance.*
2. Submittals
 - 2.1. Format: *Certificate of compliance.*

Ω End of System

Ss_25_12_60_60 Panel cubicle systems

Systems

Ss_25_12_60_60 Panel cubicle systems Standard Cubicles (A)

1. Description: IPS Cubicle Panel System
2. System performance: [Ss_25_12_60/205 Design submittals of panel cubicle/ privacy screen systems](#); [Ss_25_12_60/240 Durability of panel cubicle/ privacy screen systems](#)
3. System manufacturer: [Venesta Washroom Systems Ltd](#)
4. Contact details
 - 4.1. Address: 1st Floor, Units 19-23
St George's Square
St Georges Centre
Gravesend
Kent
United Kingdom
DA11 0TA
 - 4.2. Telephone: [+44 \(0\)1474 353333](tel:+441474353333)
 - 4.3. Web: www.venesta.co.uk
 - 4.4. Email: marketing@venesta.co.uk
5. Product reference: Unity - Cubicle System
6. Colour and Finish: Full height options available, with reduced floor clearance for increased privacy
- TBC by Client.

SGL - Material

Colour and Finish TBC by Client.

System performance

Ss_25_12_60/205 Design submittals of panel cubicle/ privacy screen systems

1. Requirement: Complete the design of the system to BS 6465-1.
2. Purpose: To demonstrate compliance with performance requirements.
For aesthetic evaluation.
3. Submittals: Typical plan, elevation and sectional drawings at suitable scales.
4. Timing: Before manufacture.
5. Format: Drawings and specification in BIM-compliant format.

Ss_25_12_60/240 Durability of panel cubicle/ privacy screen systems

1. Durability class: To [BS EN 204](#), Class D3.
2. Laminate grade: To [BS EN 438-1](#), Grade HD.

Ω End of System

Ss_25_13_50_51 Masonry Support Systems

Systems

Ss_25_13_50_51 Masonry Support Systems

1. Manufacturer: [ACS Stainless Steel Fixings Ltd](#)
2. Contact details
 - 2.1. Address: Innovation Way
Cross Green
Leeds
West Yorkshire
LS9 0DR
 - 2.2. Telephone: [+44 \(0\)113 391 8200](tel:+44(0)1133918200)
 - 2.3. Web: www.acsstainless.co.uk
 - 2.4. Email: nbs@acsstainless.co.uk
3. Product reference: [ACS Masonry Support \(T1 – Standard - T1/L/170\)](#)
4. Cavity: 170 mm.
5. Supporting structure: Steel.

Ss_25_13_50_51 New Masonry wall leaf systems

1. Manufacturer : [Wienerberger](#)
2. Product Reference: [Classic Blue - Multi](#)
3. Samples Required: Pre-Approved brick through Local Authority Planning. See Condition 6 - BRICK - 'Classic Blue - Multi' Wienerberger brick, as shown on a sample panel on site to Council Officer's 20/03/2024, and as the brochure listed within the approved plans.
4. System performance: [Ss_25_13_50/200 Accuracy of brick and block walling](#); [Ss_25_13_50/202 Design submittals for masonry systems](#); [Ss_25_13_50/204 Design supervision and checking for masonry systems](#); [Ss_25_13_50/235 Design of masonry walling](#); [Ss_25_13_50/238 Impact loads upon parapets and barriers for masonry systems](#); [Ss_25_13_50/290 Compliance with performance requirements for masonry systems](#); [Ss_25_13_50/252 Design for fire performance of masonry structures](#)
5. Masonry units: [Pr_20_93_52_01 Aggregate concrete blocks 100mm Thick](#)
6. Dpcs
 - 6.1. Dpcs – general applications: [Pr_25_57_21_06 Bitumen-based damp-proof courses and cavity trays](#)
 - 6.2. Dpc joint sealant: [Pr_20_31_02_09 Bitumen rubber emulsion adhesives](#)
7. Wall ties
 - 7.1. Wall ties – general applications: [Pr_20_85_84_33 General-purpose slip ties](#); [Pr_20_85_84_19 Cavity wall ties](#); [Pr_20_85_84_20 Channel slot ties](#); [Pr_20_85_84_33 General-purpose slip ties](#)
8. Lintels
9. Insulation: [Pr_25_57_06_50 Mineral fibre slab insulation Type A](#)
10. Cavity fire barriers: [Pr_25_80_81_51 Mineral wool fire-stopping](#)
11. Movement joint components: [Pr_35_90_87_27 Expanded polyethylene \(PE\) foam strips](#); [Pr_30_31_76_16 Construction joint sealants](#)
12. Execution: [Ss_25_13_50/600 Adverse weather](#); [Ss_25_13_50/601 Cleanliness](#); [Ss_25_13_50/603 Concrete fill to base of cavity](#); [Ss_25_13_50/604 Putlog scaffolding](#); [Ss_25_13_50/605 Execution Standards for masonry structures Type A](#); [Ss_25_13_50/620](#)

Installing cavity wall insulation; Ss_25_13_50/678 Unexposed contraction joints;
Ss_25_13_50/707 Building in frames; Ss_25_13_50/701 Installing wall plates; Ss_25_13_50/708
Openings for frames; Ss_25_13_50/758 Levelling of separate leaves in brick and block walling;
Ss_25_13_50/757 Laying walling below ground level

13. System completion: Ss_25_13_50/895 Verification of performance

System performance

Ss_25_13_50/200 Accuracy of brick and block walling

1. Courses: Level and true to line.
2. Faces, angle and features: Plumb
3. Permissible deviations
 - 3.1. Position in plan of any point in relation to the specified building reference line and/ or point at the same level: ± 10 mm.
 - 3.2. Straightness in any 5 m length: ± 5 mm.
 - 3.3. Verticality up to 3 m high: ± 10 mm.
 - 3.4. Verticality up to 7 m high: ± 14 mm.
 - 3.5. Overall thickness of walls: ± 10 mm.
 - 3.6. Level of bed joints up to 5 m (brick masonry): ± 11 mm.
 - 3.7. Level of bed joints up to 5 m (block masonry): ± 13 mm.

Ss_25_13_50/202 Design submittals for masonry systems

1. Detailed design
 - 1.1. Requirement: Refer to (22) Series drawings
 - 1.2. Purpose: To demonstrate compliance with performance requirements.
 - 1.3. Design load information provided to the Contractor: As drawings.
 - 1.4. Submittals: Drawings, schedules, technical information, calculations and manufacturers' literature as appropriate.
 - 1.5. Information to be supplied by the product supplier: Contractor's choice
 - 1.6. Timing: Submit before ordering products.
 - 1.7. Format: Drawings and specification in BIM compliant format.

Ss_25_13_50/204 Design supervision and checking for masonry systems

1. Required level of design supervision: To BS EN 1990, DSL3.
2. Design supervision personnel: Main Contractor

Ss_25_13_50/235 Design of masonry walling

1. Standard: To BS EN 1996-1-1.

Ss_25_13_50/238 Impact loads upon parapets and barriers for masonry systems

1. Standard: To BS EN 1991-1-1. In accordance with BS 7818.
2. Horizontal pedestrian loading
 - 2.1. Parapets and barriers: SE to confirm
 - 2.2. Metal pedestrian restraint systems: To BS 7818, Class 1.
 - 2.3. Height of application: To BS EN 1991-1-1.
3. Horizontal vehicular loading on parapets and barriers for car parks

4. Information provided: As drawings.

Ss_25_13_50/252 Design for fire performance of masonry structures

1. Standard: In accordance with [BS 476-21](#).
2. Building purpose group: Approved Document B, [volume 1](#) and [volume 2](#)
3. Loadbearing capacity, integrity and insulation: *By the equivalent time of fire exposure to PD 6688-1-2, Annex B.*
4. Criteria: In accordance with [PD 6688-1-2](#), Annex A.

Ss_25_13_50/290 Compliance with performance requirements for masonry systems

1. Requirement: Proof of compliance with specified performance.
2. Method
 - 2.1. Previous test results: For structural performance.
For fire performance.
For acoustic performance.
3. Submittals
 - 3.1. Format: Test results and certification.
 - 3.2. Timing: At detailed design stage.

Products

Pr_20_31_02_09 Bitumen rubber emulsion adhesives

1. Manufacturer: Contractor's choice
2. Standard: To BS EN 13304.
3. Open time (minimum): 20 minutes.
4. Colour: Black.
5. Fire performance: Non-flammable.
6. Verification
 - 6.1. Submittals: Drawings, schedules, technical information, calculations and manufacturer's literature.
 - 6.2. Timing: Before completion of detailed design.
7. Execution: [Pr_20_31_02/610 Applying adhesives generally](#)

Pr_20_85_84_19 Cavity wall ties

1. Manufacturer: [Leviat](#)
2. Contact details
 - 2.1. Address: President Way
President Park,
Sheffield
South Yorkshire
S4 7UR
 - 2.2. Telephone: [+44 \(0\) 114 275 5224](#)
 - 2.3. Web: [www.leviat.com](#)
 - 2.4. Email: [info.uk@leviat.com](#)
3. Product reference: [Ancon 25/14 Brick Ties](#)
4. Tie type: Type 2. for Steel framed systems
5. Movement: Rotation through 90° and can be easily moved to the required position.

6. Sizes: Refer to details
7. Tie type: [PD 6697](#), Type 2 ('Masonry – general purpose').
8. Execution: [Pr_20_85_84/610 Fixing ties in masonry cavity walls](#)

Pr_20_85_84_20 Channel slot ties

1. Manufacturer: [Leviat](#)
2. Contact details
 - 2.1. Address: President Way
President Park,
Sheffield
South Yorkshire
S4 7UR
 - 2.2. Telephone: [+44 \(0\) 114 275 5224](#)
 - 2.3. Web: [www.leviat.com](#)
 - 2.4. Email: [info.uk@leviat.com](#)
3. Standard: To [BS EN 845-1](#).
4. Tie type: [PD 6697](#) Type 2 ('Masonry – general purpose').
5. Material: Austenitic stainless steel (chrome nickel alloys) – Material/ Coating Reference 3.
6. Slot fixing: Surface.
7. Additional requirements
 - 7.1. Resistance to water crossing cavity: Resistant.
 - 7.2. Slope tolerance: Tolerant.

Pr_20_85_84_33 General-purpose slip ties

1. Manufacturer: Contractor's choice
2. Standard: To [BS EN 845-1](#).
3. Material: Austenitic stainless steel – Material/ Coating Reference 1.
4. Length: 250 mm.
5. End types: Symmetrical flat plate with slip case.
6. Design embedment length (minimum): 75 mm.
7. Additional requirements
 - 7.1. Mortar joint thickness (minimum): 10mm
 - 7.2. Shear load capacity: To Manufacturers recommendations
8. Execution: [Pr_20_85_84/615 Installing slip ties for movement joints](#)
9. Verification
 - 9.1. Submittals: UKCA Declaration of Performance.
 - 9.2. Timing: Before completion of detailed design.

Pr_20_93_52_01 Aggregate concrete blocks 100mm Thick

1. Manufacturer: [Lignacite Ltd](#), or similar approved
2. Contact details
 - 2.1. Address: Norfolk House
High Street
Brandon
Suffolk
IP27 0AX
 - 2.2. Telephone: [+44 \(0\)1842 810678](#)

- 2.3. Web: www.lignacite.co.uk
- 2.4. Email: info@lignacite.co.uk
- 3. Product reference: [Ash GP 100 mm 7.3 N Concrete Blocks](#)
- 4. Standard: To BS EN 771-3.
- 5. Block description: Medium density, load bearing block for general purpose walling applications.
- 6. Appearance: Scratched surface to aid the key of plaster and render finishes.
- 7. Configuration: Group 1.
- 8. Compressive strength
 - 8.1. Mean value: 7.3 N/mm².
 - 8.2. Category: M4.
- 9. Thermal conductivity: 0.47 W/m·K at 3% moisture content (internal use), 0.51 W/m·K at 5% moisture content (external use).
- 10. Thermal resistance: 0.212 m²K/W at 3% moisture content; 0.196 m²K/W at 5% moisture content.
- 11. Work sizes (length x width x height): 440 x 100 x 215 mm.
- 12. Tolerance category: D1.
- 13. Density
 - 13.1. Net dry density: 1450 kg/m³.
- 14. Reaction to fire: Class A1.
- 15. Water vapour permeability: 5/15 µ.
- 16. Moisture movement: <0.5 mm/m.
- 17. SpecificHeatCapacity: 1000 J/kg/K.
- 18. Weighted sound reduction index, Rw: 44–45 dB (dependent on application).
- 19. Fire resistance: Non-loadbearing wall (criteria E1): 2 hours; loadbearing wall (criteria RE1): 3 hours.
- 20. Third-party certification: BSI Kitemark approved.
- 21. Unit weight: 14 kg.
- 22. Execution: [Pr_20_93_52/625 Brickwork and blockwork appearance](#); [Pr_20_93_52/630 Brickwork and blockwork bond](#); [Pr_20_93_52/635 Brickwork and blockwork pointing](#); [Pr_20_93_52/690 Laying brick and block masonry units generally](#)

Pr_25_57_06_50 Mineral fibre slab insulation Type A

- 1. Manufacturer: [ROCKWOOL Ltd](#)
- 2. Contact details
 - 2.1. Address: ROCKWOOL Ltd
Wern Tarw
Pencoed
Bridgend
United Kingdom
CF35 6NY
 - 2.2. Telephone: [+44 \(0\)1656 862621](tel:+441656862621)
 - 2.3. Web: <https://www.rockwool.com/uk/>
 - 2.4. Email: customersupportcentre@rockwool.com
- 3. Product reference: [ROCKWOOL® Full Fill Cavity Batts \(100 mm\)](#)
- 4. General requirements: Insulation products generally.
- 5. Standard: To BS EN 13162; BS 6676-1; ISO 14001.
- 6. Thermal conductivity (maximum): 0.037 W/m·K.
- 7. Thickness (minimum): 100 mm.

8. Edges: Square.
9. Fire performance: To BS EN 13501-1, Euroclass A1.
10. U-value: 0.00 W/m²K.
11. Verification

Pr_25_57_21_06 Bitumen-based damp-proof courses and cavity trays

1. Manufacturer: Contractor's choice
2. Standard: To [BS EN 14967](#).
3. Composition: Class B (fibre-based bitumen) to [BS 6398](#).
4. Reaction to fire: Class F to BS EN 13501-1.
5. Execution: [Pr_25_57_21/635 Installing horizontal dpcs](#)
6. Verification
 - 6.1. Submittals: UKCA Declaration of Performance.
 - 6.2. Timing: Before placement of orders.

Pr_25_80_81_51 Mineral wool fire-stopping

1. Manufacturer: [Siderise Group](#)
2. Contact details
 - 2.1. Address: Forge Industrial Estate
Maesteg
Bridgend
Mid Glamorgan
United Kingdom
CF34 0AH
 - 2.2. Telephone: [+44 \(0\)1656 730833](tel:+44201656730833)
 - 2.3. Web: www.siderise.com
 - 2.4. Email: projects@siderise.com
3. Product reference: [Siderise EW Systems Cavity Barriers and Fire Stops for Masonry External Walls \(EW-FS60 fire stop \)](#)
4. Material
 - 4.1. Third-party certification: IFC Certification IFCC 1830.
 - 4.2. Type: Semi-rigid.
 - 4.3. Facing: Aluminium foil.
5. Fire performance: To EN 1366-4, 90 minutes integrity, 60 minutes insulation.
6. Cavity width: Please refer to architectural drawings
7. Configuration: Please refer to architectural drawings
8. Thickness: Varies - size to suit cavity size.

Pr_30_31_76_16 Construction joint sealants

1. Manufacturer: [illbruck – a brand of Tremco CPG UK Ltd](#)
2. Contact details
 - 2.1. Address: Coupland Road
Hindley Green
Wigan
WN2 4HT
 - 2.2. Telephone: [+44 \(0\)1942 251400](tel:+44201942251400)
 - 2.3. Web: www.illbruck.co.uk

- 2.4. Email: hello@tremcocpg.com
3. Product reference: [illbruck SP525 Frame And Façade Sealant And Adhesive](#)
 4. Standard: To EN 15651-1.
 5. Material: Polymer hybrid sealant adhesive.
 6. Colour: 105 Concrete grey.
 7. Fire performance: To BS EN 13501-1, Class E.
 8. Curing: Approximately 3 mm/1st day (23°C, 50% RH).
 9. Movement: To ISO 11600, 25%.
 10. TensileStrength: To DIN EN ISO 8339, approximately 0.7 N/mm².
 11. Application temperature: +5 to +40°C.
 12. Service temperature: -40 to +90°C.
 13. Acoustic insulation: 61 dB.
 14. Coverage: to manufacturers requirements
 15. Shelf life: 12 months when stored a recommended in original unopened container.
 16. Accessories: AA956 600 ml Sausage Gun. Smoothing agent AA301. Smoothing tools AA311.
 17. Execution: [Pr_30_31_76/610 Suitability of joints for sealant application](#); [Pr_30_31_76/630 Applying joint sealants](#); [Pr_30_31_76/620 Joint preparation for sealant application Type A](#)

Pr_35_90_87_27 Expanded polyethylene (PE) foam strips

1. Manufacturer: [illbruck – a brand of Tremco CPG UK Ltd](#)
2. Contact details
 - 2.1. Address: Coupland Road
Hindley Green
Wigan
WN2 4HT
 - 2.2. Telephone: [+44 \(0\)1942 251400](tel:+44(0)1942251400)
 - 2.3. Web: www.illbruck.co.uk
 - 2.4. Email: hello@tremcocpg.com
3. Product reference: [illbruck SP525 Frame And Façade Sealant And Adhesive](#)
4. Standard: To EN 15651-1.
5. Material: Polymer hybrid sealant adhesive.
6. Colour: 105 Concrete grey.
7. Fire performance: To BS EN 13501-1, Class E.
8. Execution: As stated in manufacturers literature
9. Curing: Approximately 3 mm/1st day (23°C, 50% RH).
10. Movement: To ISO 11600, 25%.
11. TensileStrength: To DIN EN ISO 8339, approximately 0.7 N/mm².
12. Application temperature: +5 to +40°C.
13. Service temperature: -40 to +90°C.
14. Acoustic insulation: 61 dB.
15. Coverage: To Manufacturers recommendation
16. Shelf life: 12 months when stored a recommended in original unopened container.
17. Accessories: AA956 600 ml Sausage Gun. Smoothing agent AA301. Smoothing tools AA311.
18. Verification
19. Execution: [Pr_35_90_87/620 Installing movement joint fillers in masonry](#)

Execution

Pr_20_31_02/610 Applying adhesives generally

1. Surface preparation: Dry, clean, and free from oil, grease and other contaminants.
2. Temporary support and clamping: Do not disturb components. Do not mark surfaces.
3. Finished joints: Fully bonded and free of surplus adhesive.

Pr_20_85_84/610 Fixing ties in masonry cavity walls

1. Embedment in mortar beds (minimum): [BS EN 845-1](#)
2. Placement: Sloping slightly downwards towards outer leaf, without bending. Centre drip in the cavity and pointing downwards.
3. Spacing
 - 3.1. Pattern: Evenly space in non-staggered horizontal and vertical rows.
4. Additional ties
 - 4.1. Provision: Within 225 mm of reveals of unbonded openings and at the vertical reveals of unsupported masonry.

Pr_20_85_84/615 Installing slip ties for movement joints

1. Debonding arrangement: Polyethylene sheet wrapping to one half length of tie.
2. Fixing centres: Alternate courses.

Pr_20_93_52/625 Brickwork and blockwork appearance

1. Brick/ block selection: Do not use units with damaged faces or arrises.
2. Cut masonry units: Where cut faces or edges are exposed, cut with table masonry saw.
3. Quality control: Lay masonry units to match relevant reference panels.
4. Setting out: To produce satisfactory junctions and joints with built-in features and components.
5. Coursing: Evenly spaced using gauge rods.
6. Lifts: Complete in one operation.

Pr_20_93_52/630 Brickwork and blockwork bond

1. Bond type: Half lap stretcher.

Pr_20_93_52/635 Brickwork and blockwork pointing

1. Joint preparation: Remove debris. Dampen surface.
2. Profile: Bucket handle.

Pr_20_93_52/690 Laying brick and block masonry units generally

1. Mortar joints: Lay units on a full bed. Fill vertical joints and voids.
2. Thin mortar joints
 - 2.1. Generally: Lay blocks on a full bed. Fill vertical joints.
 - 2.2. Clay block vertical joints: Interlock without mortar.
3. Joint appearance: Neat and consistent.
4. Bond where not specified: Half lap stretcher.
5. Vertical joints in brick and concrete block facework: Plumb at every fifth cross joint.
6. Cleanliness
 - 6.1. Facework: Keep clean.

- 6.2. Mortar on facework: Removed.
- 6.3. Removal of marks and stains: Rubbing and other abrasive or chemical cleaning methods not permitted.

Pr_25_57_21/635 Installing horizontal dpcs

1. Placement: In continuous lengths on full, even bed of fresh mortar, with 100 mm laps at joints and full laps at angles.
2. Width: At least full width of leaf unless otherwise specified. Do not cover edges of dpc with mortar or project into cavity.
3. Overlying construction: Immediately cover dpc with full even bed of mortar to receive next masonry course.
4. Overall finished joint thickness: As close to normal as practicable.

Pr_30_31_76/610 Suitability of joints for sealant application

1. Joint dimensions: Within limits specified for the sealant.
2. Substrate quality: Surfaces regular, undamaged and stable.
3. Joints not fit to receive sealant: Submit proposals for rectification.

Pr_30_31_76/620 Joint preparation for sealant application Type A

1. Surfaces to which sealant must adhere: Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
2. Cleaning: Use materials and methods recommended by sealant manufacturer.
3. Vulnerable surfaces adjacent to joints: Do not stain or smear with primer or sealant.

Pr_30_31_76/630 Applying joint sealants

1. Substrate: As recommended by sealant manufacturer.
2. Environmental conditions: Do not dry or raise temperature of joints by heating.
3. Sealant application: Completely and neatly fill joints. Provide firm adhesion to substrates.
4. Sealant profiles
 - 4.1. Butt and lap joints: Slightly concave.
 - 4.2. Fillet joints: Slightly convex.
5. Protection: Do not contaminate or damage finished joints.

Pr_35_90_87/620 Installing movement joint fillers in masonry

1. Application: Movement joints that use sealant.
2. Filler placement: Build in as work proceeds filling joint with no projections into cavities, and to correct depth to receive sealant system.

Ss_25_13_50/600 Adverse weather

1. Freezing conditions: Do not use frozen materials or lay on frozen surfaces.
2. Air temperature
 - 2.1. Cement-gauged mortars: Do not lay units at or below 3°C and falling or below 1°C and rising (unless mortar has a temperature of not less than 4°C when laid and walling is thoroughly protected).
3. Temperature of masonry during curing: Above freezing until mortar hardens/ has fully set.
4. Newly erected walling
 - 4.1. Protect from precipitation: At all times.
 - 4.2. Protect from drying out too rapidly: At all times in hot conditions and in drying winds.

Ss_25_13_50/601 Cleanliness

1. Cavity base and faces, ties, insulation and exposed dpcs: Free from mortar and debris.

Ss_25_13_50/603 Concrete fill to base of cavity

1. Extent: Maintain 75 mm between top of fill and external ground level and a minimum of 225 mm between top of fill and ground level dpc.
2. Placement: Compacted and without voids.

Ss_25_13_50/604 Putlog scaffolding

1. Putlog scaffolding: Not permitted in facework.

Ss_25_13_50/605 Execution Standards for masonry structures Type A

1. Standard: To [BS EN 1996-2](#).

Ss_25_13_50/620 Installing cavity wall insulation

1. Cavity fill: Full fill insulation.
2. Placement: Continuous.
3. Residual cavity: Clear and unobstructed.
4. Joints: No gaps between boards at closures and penetrations. Free from mortar and debris.

Ss_25_13_50/678 Unexposed contraction joints

1. Joint frequency: No more than 6 m intervals in concrete brick and concrete block. Joints should not normally exceed 10 mm in width.
2. Formation: Close butt as work proceeds.

Ss_25_13_50/701 Installing wall plates

1. Placement: On full bed of mortar to correct horizontal level.

Ss_25_13_50/707 Building in frames

1. Preparation: Remove horns and provide support.
2. Fixing cramps: Fully bed in mortar.

Ss_25_13_50/708 Openings for frames

1. Formation: Use accurate, rigid templates to required size.

Ss_25_13_50/757 Laying walling below ground level

1. Commencement of facework: Not less than 150 mm below finished level of adjoining ground or external works level.

Ss_25_13_50/758 Levelling of separate leaves in brick and block walling

1. Locations for equal levelling of cavity wall leaves: Every course containing vertical twist type ties or other rigid ties, every third tie course for double triangle/ butterfly ties and courses in which lintels are to be bedded.

System completion

Ss_25_13_50/895 Verification of performance

1. Requirement: Check completed system and provide assurance of compliance with specified performance.
2. Submittals
 - 2.1. Format: Description of inspections, remedial works carried out and certification of compliance.
 - 2.2. Timing: At completion of installation.

Ω End of System

Ss_25_13_50_56 Masonry internal partition systems

Systems

Ss_25_13_50_56 Masonry internal partition systems IWTG

1. Manufacturer: [Thomas Armstrong \(Concrete Blocks\) Ltd](#)
2. Contact details
 - 2.1. Address: Whinfield Road
Rowlands Gill
Newcastle-upon-Tyne
Tyneside
United Kingdom
NE39 1EH
 - 2.2. Telephone: [+44 \(0\)1207 544214](tel:+44(0)1207544214)
 - 2.3. Web: www.thomasarmstrongconcreteblocks.co.uk
 - 2.4. Email: blocks@thomasarmstrong.co.uk
3. Product reference: [Solid Dense Concrete Block \(Solid Dense Concrete Block 100 mm\)](#)
4. Standard: To BS EN 771-3.
5. Block description: Standard.
6. Appearance: Dark grey.
7. Configuration: Group 1.
8. Compressive strength
 - 8.1. Characteristic value: 5.7 N/mm².
 - 8.2. Category: II.
9. Freeze/ thaw resistance: Freeze thaw resistant.
10. Thermal conductivity: 1.17 W/mK (inner leaf).
1.26 W/mK (outer leaf).
11. Recycled content: 20%.
12. Work sizes (length x width x height): 440 x 215 x 100 mm.
13. Tolerance category: D1.
14. Density
 - 14.1. Gross dry density: 1850-2100 kg/m³.
15. Reaction to fire: Class A1 to BS EN 13501-1.
16. Water absorption by capillarity: 90 g/(m² x s-0.5).
17. Water vapour permeability: 5/15 µ.
18. Thickness: 100 mm.
19. Weight: 190 kg/m²: walled weight.
18.0 kg: block weight.
20. Moisture movement: 0.6 mm/m.
21. Environmental Product Declaration (EPD): ISO 14001.
22. R-Value: 0.09 m² K/W.
23. Sound reduction: 48 dB (Rw).
24. System performance: [Ss_25_13_50/200 Accuracy of brick and block walling](#); [Ss_25_13_50/252 Design for fire performance of masonry structures](#)

System performance

Ss_25_13_50/200 Accuracy of brick and block walling

1. Courses: Level and true to line.
2. Faces, angle and features: Plumb
3. Permissible deviations
 - 3.1. Position in plan of any point in relation to the specified building reference line and/ or point at the same level: ± 10 mm.
 - 3.2. Straightness in any 5 m length: ± 5 mm.
 - 3.3. Verticality up to 3 m high: ± 10 mm.
 - 3.4. Verticality up to 7 m high: ± 14 mm.
 - 3.5. Overall thickness of walls: ± 10 mm.
 - 3.6. Level of bed joints up to 5 m (brick masonry): ± 11 mm.
 - 3.7. Level of bed joints up to 5 m (block masonry): ± 13 mm.

Ss_25_13_50/252 Design for fire performance of masonry structures

1. Standard: In accordance with [BS 476-21](#).
2. Building purpose group: Approved Document B, [volume 1](#) and [volume 2](#)
3. Loadbearing capacity, integrity and insulation: *By the equivalent time of fire exposure to PD 6688-1-2, Annex B.*
4. Criteria: In accordance with [PD 6688-1-2](#), Annex A.

Ω End of System

Ss_25_25_45_35 Gypsum board wall lining systems

Systems

Ss_25_25_45_35 Gypsum board wall lining systems IWTC

1. System manufacturer: [British Gypsum](#)
2. Contact details
 - 2.1. Address: East Leake
Loughborough
Leicestershire
United Kingdom
LE12 6JU
 - 2.2. Telephone: +44 (0)844 800 1991
 - 2.3. Web: www.british-gypsum.com
 - 2.4. Email: bg.technical@saint-gobain.com
3. Product reference: [GypLyner Independent - B216025 \(C\) \(EN\)](#)
4. Support: Base channel: Gypframe 62 FEC 50 Folded Edge Standard Floor & Ceiling Channel.
Head channel: Gypframe 62 FEC 50 Folded Edge Standard Floor & Ceiling Channel.
Stud: Gypframe 60 I 70 'I' Stud.
Abutments and openings: Gypframe 60 S 50 'C' Stud.
5. Insulation: Insulation, Layer 1: 50mm Isover Steel Frame Infill Batt.
6. Linings: Board side 1, Layer 1: Gyproc FireLine 12.5mm.
7. Fasteners: Screws side 1, Layer 1: British Gypsum Jack-Point Screws 25mm.
8. Joint treatment: Fixing strap: Gypframe GFS1 Fixing Strap.
Fixing T: Gypframe GFT1 Fixing 'T'.
9. Finish: To achieve the specified performances, the system should be finished using either one of our Thistle or ThistlePro plasters, or Gyproc jointing products. See the product range guides on the British Gypsum website for more information.
10. System accessories: Sealant: Gyproc Sealant.
Thermal sealant: Gyproc Sealant.
11. Execution: Please review details on the British Gypsum website at: <https://www.british-gypsum.com/Specification/White-Book-Specification-Selector/wall-linings/GypLyner-Independent/B216025-C-EN#details>
12. Fire resistance: BS EN 1364-1, 60 / 30 Integrity / Insulation
13. Strength grade: BS 5234-2, Medium duty (MD)
14. Partition height: 3000mm
15. Background: Background: Steel Clad External Wall
16. Execution: [Ss_25_25_45/607 Installing gypsum board linings generally](#); [Ss_25_25_45/610 Preparation of substrates to receive wall linings](#); [Ss_25_25_45/615 Installing linings adjacent to new concrete and screeds](#)
17. System completion: [Ss_25_25_45/895 Verification on completion](#)

Ss_25_25_45_35 Gypsum board wall lining systems IWTF

1. Description: Linings to existing internal masonry walls
2. System manufacturer: [British Gypsum](#)
3. Contact details
 - 3.1. Address: East Leake
Loughborough

Leicestershire
United Kingdom
LE12 6JU

- 3.2. Telephone: +44 (0)844 800 1991
- 3.3. Web: www.british-gypsum.com
- 3.4. Email: bg.technical@saint-gobain.com
4. Product reference: [GypLyner Single - TL-Universal \(A\) \(EN\)](#)
5. Support: Bracket type: Gypframe GL2 Bracket.
Fixing method: Gypframe GL11 GypLyner Anchor.
Channel connector: Gypframe GL3 Channel Connector.
Base channel: Gypframe GL8 Track.
Head channel: Gypframe GL8 Track.
Stud: Gypframe GL1 Lining Channel.
6. Linings: Board side 1, Layer 1: Gyproc ThermaLine PIR 38mm.
7. Fasteners: Screws side 1, Layer 1: British Gypsum Drywall Screws 50mm.
Bracket fixing: British Gypsum Wafer Head Drywall Screws 13mm.
8. Joint treatment: Fixing strap: Gypframe GFS1 Fixing Strap.
Fixing T: Gypframe GFT1 Fixing 'T'.
9. Finish: The system should be finished using either one of our Thistle or ThistlePro plasters, or Gyproc jointing products. See the product range guides on the British Gypsum website for more information.
10. System accessories: Sealant: Gyproc Sealant.
Thermal sealant: Gyproc Sealant.
11. Execution: Please review details on the British Gypsum website at: <https://www.british-gypsum.com/Specification/White-Book-Specification-Selector/wall-linings/GypLyner-Single/TL-Universal-A-EN#details>
12. Strength grade: Not Stated
13. Background: Background: Masonry
14. Execution: [Ss_25_25_45/607 Installing gypsum board linings generally](#); [Ss_25_25_45/610 Preparation of substrates to receive wall linings](#); [Ss_25_25_45/615 Installing linings adjacent to new concrete and screeds](#)
15. System completion: [Ss_25_25_45/895 Verification on completion](#)

Execution

Ss_25_25_45/607 Installing gypsum board linings generally

1. Standard: In accordance with [BS 8000-0](#)
2. Deviations and tolerances
 - 2.1. Vertical deviation (maximum): ± 5 mm measured above or below the setting out position, in accordance with [BS 8212](#) clause 3.3.2.
 - 2.2. Horizontal deviation (maximum): ± 3 mm measured at the setting out level (ceiling or floor), in accordance with [BS 8212](#) clause 3.3.2.
 - 2.3. Finished surfaces: Maximum deviation band of 10 mm in accordance with [BS 8212](#) clause 3.3.3.

Ss_25_25_45/610 Preparation of substrates to receive wall linings

1. Suitability of substrates: Suitable to receive lining system. Remove redundant fixtures and services. Complete cutting, chasing and making good.
2. Sealing: Seal all holes, gaps, service penetrations, perimeter junctions and around openings.
3. Adhesive fixings: Prepare substrate to achieve effective bonding.

4. **Contaminants:** Remove loose material, dirt, grease, oil, paper, etc.
5. **Absorption:** Control by dampening, priming or applying bonding agents as necessary.

Ss_25_25_45/615 Installing linings adjacent to new concrete and screeds

1. **Dpcs**
 - 1.1. **General:** Lay loose onto subfloor for full width and length of linings between floor and sole of framing.
 - 1.2. **Laps (minimum):** 150mm and bonded.
 - 1.3. **Abutments:** Turn up a 150mm minimum where lining frame abuts perimeter. Refer to manufacturer information for any additional recommendations.
2. **Wall linings:** *Wall lining to be kept short of floor by 5 mm maximum and to be filled with joint filler prior to skirting installation.*

System completion

Ss_25_25_45/895 Verification on completion

1. **Requirements:** *Check completed system and provide assurance of compliance with specified performance.*
2. **Method:**
 - Third-party certification.
 - Manufacturer's performance declarations (DoPs or similar);
3. **Submittals**
 - 3.1. **Format:** *Drawings, schedules, technical information, calculations and manufacturer's literature.*
 - 3.2. **Timing:** *At project completion.*

Ω End of System

Ss_25_25_75_05 Acoustic panel lining systems

Systems

Ss_25_25_75_05 Acoustic panel lining systems Timber slat finish

1. Description: Ribbed Timber slatted wall finish
2. System performance: Refer to Acoustic Report & Architectural Drawings for detail information. [Ss_25_25_75/270 Fire performance](#); [Ss_25_25_75/290 Verification of compliance with performance requirements](#)
3. System manufacturer: Contractor's choice
4. Battens: Softwood battens
5. Acoustic insulation: N/A
6. Panelling
 - 6.1. Type: Individual panels.
 - 6.2. Surface material: Timber finish
 - 6.3. Surface finish: Smooth.
7. Fasteners: Secret fix to suitable frame / substructure.
8. Execution: [Ss_25_25_75/620 Installing linings and panelling](#); [Ss_25_25_75/600 Provision of system samples, prototypes and mock-ups](#)

System performance

Ss_25_25_75/270 Fire performance

1. Fire resistance: N/A
2. Reaction to fire: Refer to Jenson Hughes Report.

Extract Below.

4.4 Surface Linings New wall and ceiling linings will achieve at least the following classifications:

Small Room no larger than 30m2:
National Class 1 / EU Classification - D-s3, d2

Other Rooms:
National Class 3/ EU Classification - C-s3, d2 (Eg. Auditorium)

Circulation Spaces:
National Class 0 / EU Classification - B-s3, d 2 **

** Wallcoverings which conform to BS EN 15102, achieving at least class C-s3, d2 and bonded to a class A2-s3, d2 substrate, are also acceptable.

Ss_25_25_75/290 Verification of compliance with performance requirements

1. Requirements: Best practice requirements. Testing of performance has no statutory requirement for testing. For building / occupier use and information only.
2. Method: Post Installation testing. Acoustician to advise.
3. Submittals
 - 3.1. Format: Report
 - 3.2. Timing: Post Installation testing. Acoustician to advise.

Execution

Ss_25_25_75/600 Provision of system samples, prototypes and mock-ups

1. Requirement: 1m2 sample
2. Purpose: To confirm finish and acoustic details.
3. Timing: Ahead of fabrication.

Ss_25_25_75/620 Installing linings and panelling

1. Setting out: Accurate, true to line and level, free from undulations and lipping.
2. Movement allowance: Adequate for future moisture and temperature movement of boards.
3. Fixing of panels
 - 3.1. General: Secure, to prevent pulling away, bowing, or other movement during use.
 - 3.2. Fixings: Secret wall fixings
4. Lines and joints
 - 4.1. General: Align, install straight and parallel.
 - 4.2. Joint treatment: Vertical joints, glue and secret nail. (as required) Refer to detail intent for information. (42) Series Drawings
 - 4.3. Joint width: Refer to detail intent for information. (42) Series Drawings
 - 4.4. Difference between greatest width and least width (maximum): 0 - 200mm - Refer to detail intent for information. (42) Series Drawings
5. Adhesives: *Compatible with wood preservatives applied and end use of timber.*

Ω End of System

Ss_25_30_20_30 Frame and door leaf systems

Systems

Ss_25_30_20_30 Frame and door leaf systems Internal Door Type A

1. Description: Internal Door Type A
2. System performance: [Ss_25_30_20/265 Inclusive design](#); [Ss_25_30_20/218 Fire performance](#); [Ss_25_30_20/240 Acoustic performance](#); [Ss_25_30_20/250 Mechanical strength requirements](#)
3. System manufacturer: Contractor's choice
4. Door frame
 - 4.1. Material: [Pr_30_59_23_96 Wood door frames](#)
5. Door leaf
 - 5.1. Type: [Pr_30_59_23_97 Wood flush door leaves](#)
 - 5.2. Glazing: None
 - 5.3. Perimeter seals or inserts: Smoke Seals
6. Classification and certification labelling
 - 6.1. Format: Manufacturer's standard.
7. Thresholds: [Pr_35_90_31_33 Floor threshold strips](#)
8. Hardware: Refer to design drawing and schedules for baseline information. Specialist supplier to provide further ironmongery and hardware schedules.
9. Breakout facility: Required.
10. Filler between frame and reveal: [Pr_30_31_76_66 Polyurethane \(PUR\) expanding foam fillers](#)
11. System accessories: [Pr_30_36_36_04 Anti-finger trap stiles](#)
12. Execution: [Ss_25_30_20/640 Fixing of wood frames](#); [Ss_25_30_20/655 Fixing hardware](#); [Ss_25_30_20/675 Installation of emergency and panic exit devices](#); [Ss_25_30_20/680 Frame sealant joints](#); [Ss_25_30_20/607 Provision of system samples, prototypes and mock-ups](#); [Ss_25_30_20/620 Priming and sealing](#)
13. System completion: [Ss_25_30_20/810 Documentation relating to doors, door assemblies and doorsets](#)

Ss_25_30_20_30 Frame and door leaf systems Internal Door Type B

1. Description: Internal Door Type B
2. System performance: [Ss_25_30_20/240 Acoustic performance](#); [Ss_25_30_20/250 Mechanical strength requirements](#); [Ss_25_30_20/265 Inclusive design](#); [Ss_25_30_20/218 Fire performance](#)
3. System manufacturer: Contractor's choice
4. Door frame
 - 4.1. Material: Reference to missing clause Wood door frames
5. Door leaf
 - 5.1. Type: [Pr_30_59_23_97 Wood flush door leaves](#)
 - 5.2. Glazing: [Pr_30_59_97_94 Non Fire Rated - Vision panels](#)
 - 5.3. Perimeter seals or inserts: Smoke Seals
6. Classification and certification labelling
 - 6.1. Format: Manufacturer's standard.
7. Thresholds: Reference to missing clause Floor threshold strips
8. Hardware: Refer to design drawing and schedules for baseline information. Specialist supplier to provide further ironmongery and hardware schedules.

9. Breakout facility: Required.
10. Filler between frame and reveal: [Pr_30_31_76_66 Polyurethane \(PUR\) expanding foam fillers](#)
11. System accessories: [Pr_30_36_36_04 Anti-finger trap stiles](#)
12. Execution: [Ss_25_30_20/620 Priming and sealing](#); [Ss_25_30_20/655 Fixing hardware](#); [Ss_25_30_20/675 Installation of emergency and panic exit devices](#); [Ss_25_30_20/680 Frame sealant joints](#)
13. System completion: [Ss_25_30_20/810 Documentation relating to doors, door assemblies and doorsets](#)

Ss_25_30_20_30 Frame and door leaf systems Internal Door Type C

1. Description: Internal Door Type C
2. System performance: [Ss_25_30_20/218 Fire performance Type A](#); [Ss_25_30_20/240 Acoustic performance](#); [Ss_25_30_20/250 Mechanical strength requirements](#); [Ss_25_30_20/265 Inclusive design](#)
3. System manufacturer: Contractor's choice
4. Door frame
 - 4.1. Material: [Pr_30_59_23_96 Wood door frames](#)
5. Door leaf
 - 5.1. Type: [Pr_30_59_23_97 Wood flush door leaves Type A](#)
 - 5.2. Glazing: None
 - 5.3. Perimeter seals or inserts: Smoke Seals
6. Classification and certification labelling
 - 6.1. Format: Manufacturer's standard.
7. Thresholds: [Pr_35_90_31_33 Floor threshold strips](#)
8. Hardware: Refer to design drawing and schedules for baseline information. Specialist supplier to provide further ironmongery and hardware schedules.
9. Breakout facility: Required.
10. Filler between frame and reveal: [Pr_30_31_76_66 Polyurethane \(PUR\) expanding foam fillers](#)
11. Execution: [Ss_25_30_20/620 Priming and sealing](#); [Ss_25_30_20/640 Fixing of wood frames](#); [Ss_25_30_20/655 Fixing hardware](#); [Ss_25_30_20/675 Installation of emergency and panic exit devices](#); [Ss_25_30_20/680 Frame sealant joints](#); [Ss_25_30_20/607 Provision of system samples, prototypes and mock-ups](#)
12. System completion: [Ss_25_30_20/810 Documentation relating to doors, door assemblies and doorsets](#)

Ss_25_30_20_30 Frame and door leaf systems Internal Door Type D

1. Description: Internal Door Type D
2. System performance: [Ss_25_30_20/218 Fire performance Type A](#); [Ss_25_30_20/240 Acoustic performance](#); [Ss_25_30_20/250 Mechanical strength requirements](#); [Ss_25_30_20/265 Inclusive design](#)
3. System manufacturer: Contractor's choice
4. Door frame
 - 4.1. Material: Wood door frames
5. Door leaf
 - 5.1. Type: [Pr_30_59_23_97 Wood flush door leaves Type A](#)
 - 5.2. Glazing: [Pr_30_59_97_94 Fire Rated - Vision panels](#)
 - 5.3. Perimeter seals or inserts: Smoke Seals
6. Classification and certification labelling

- 6.1. Format: Manufacturer's standard.
7. Thresholds: Floor threshold strips
8. Hardware: Refer to design drawing and schedules for baseline information. Specialist supplier to provide further ironmongery and hardware schedules.
9. Breakout facility: Required.
10. Filler between frame and reveal: [Pr_30_31_76_66 Polyurethane \(PUR\) expanding foam fillers](#)
11. Execution: [Ss_25_30_20/620 Priming and sealing](#); [Ss_25_30_20/640 Fixing of wood frames](#); [Ss_25_30_20/655 Fixing hardware](#); [Ss_25_30_20/675 Installation of emergency and panic exit devices](#); [Ss_25_30_20/680 Frame sealant joints](#); [Ss_25_30_20/607 Provision of system samples, prototypes and mock-ups](#)
12. System completion: [Ss_25_30_20/810 Documentation relating to doors, door assemblies and doorsets](#)

Ss_25_30_20_30 Frame and door leaf systems Internal Door Type E

1. Description: Solid Double Door with Vision Panel
2. System performance: [Ss_25_30_20/218 Fire performance Type A](#); [Ss_25_30_20/250 Mechanical strength requirements](#); [Ss_25_30_20/265 Inclusive design](#); [Ss_25_30_20/240 Acoustic performance Type A](#)
3. System manufacturer: Contractor's choice
4. Door frame
 - 4.1. Material: [Pr_30_59_23_96 Wood door frames](#)
5. Door leaf
 - 5.1. Type: [Pr_30_59_23_97 Wood flush door leaves Type B](#)
 - 5.2. Glazing: [Pr_30_59_97_94 Fire Rated - Vision panels](#)
 - 5.3. Perimeter seals or inserts: Smoke Seals
6. Classification and certification labelling
 - 6.1. Format: Manufacturer's Standard
7. Thresholds: [Pr_35_90_31_33 Floor threshold strips](#)
8. Hardware: Refer to design drawing and schedules for baseline information. Specialist supplier to provide further ironmongery and hardware schedules.
9. Breakout facility: Required
10. Filler between frame and reveal: [Pr_30_31_76_66 Polyurethane \(PUR\) expanding foam fillers](#)
11. System accessories: [Pr_30_36_36_04 Anti-finger trap stiles](#)
12. Execution: [Ss_25_30_20/620 Priming and sealing](#); [Ss_25_30_20/640 Fixing of wood frames](#); [Ss_25_30_20/655 Fixing hardware](#); [Ss_25_30_20/675 Installation of emergency and panic exit devices](#); [Ss_25_30_20/680 Frame sealant joints](#); [Ss_25_30_20/607 Provision of system samples, prototypes and mock-ups](#)
13. System completion: [Ss_25_30_20/810 Documentation relating to doors, door assemblies and doorsets](#)

Ss_25_30_20_30 Frame and door leaf systems Internal Door Type F

1. Description: Solid Double Door NO Vision Panel
2. System performance: [Ss_25_30_20/218 Fire performance Type A](#); [Ss_25_30_20/240 Acoustic performance Type A](#)
3. System manufacturer: Contractor's choice
4. Door frame
 - 4.1. Material: [Pr_30_59_23_96 Wood door frames](#)
5. Door leaf

- 5.1. Type: [Pr_30_59_23_97 Wood flush door leaves Type B](#)
- 5.2. Perimeter seals or inserts: Smoke Seals
6. Classification and certification labelling
 - 6.1. Format: Manufacturer's Standard
7. Thresholds: [Pr_35_90_31_33 Floor threshold strips](#)
8. Hardware: Refer to design drawing and schedules for baseline information. Specialist supplier to provide further ironmongery and hardware schedules
9. Breakout facility: Required.
10. Filler between frame and reveal: [Pr_30_31_76_66 Polyurethane \(PUR\) expanding foam fillers](#)
11. System accessories: [Pr_30_36_36_04 Anti-finger trap stiles](#)
12. Execution: [Ss_25_30_20/620 Priming and sealing](#); [Ss_25_30_20/640 Fixing of wood frames](#); [Ss_25_30_20/655 Fixing hardware](#); [Ss_25_30_20/675 Installation of emergency and panic exit devices](#); [Ss_25_30_20/680 Frame sealant joints](#); [Ss_25_30_20/607 Provision of system samples, prototypes and mock-ups](#)
13. System completion: [Ss_25_30_20/810 Documentation relating to doors, door assemblies and doorsets](#)

Ss_25_30_20_30 Frame and door leaf systems Internal Door Type G

1. Description: Leaf & Half Leaf Door Type
2. System performance: [Ss_25_30_20/218 Fire performance Type A](#); [Ss_25_30_20/240 Acoustic performance Type A](#)
3. System manufacturer: Contractor's choice
4. Door frame
 - 4.1. Material: [Pr_30_59_23_96 Wood door frames](#)
5. Door leaf
 - 5.1. Type: [Pr_30_59_23_97 Wood flush door leaves Type C](#)
 - 5.2. Glazing: [Pr_30_59_97_94 Fire Rated - Vision panels](#)
 - 5.3. Perimeter seals or inserts: Smoke Seals
6. Classification and certification labelling
 - 6.1. Format: Manufacturer's standard.
7. Thresholds: [Pr_35_90_31_33 Floor threshold strips](#)
8. Hardware: Refer to design drawing and schedules for baseline information. Specialist supplier to provide further ironmongery and hardware schedules
9. Breakout facility: Required.
10. Filler between frame and reveal: [Pr_30_31_76_66 Polyurethane \(PUR\) expanding foam fillers](#)
11. System accessories: [Pr_30_36_36_04 Anti-finger trap stiles](#)
12. Execution: [Ss_25_30_20/620 Priming and sealing](#); [Ss_25_30_20/640 Fixing of wood frames](#); [Ss_25_30_20/655 Fixing hardware](#); [Ss_25_30_20/675 Installation of emergency and panic exit devices](#); [Ss_25_30_20/680 Frame sealant joints](#); [Ss_25_30_20/607 Provision of system samples, prototypes and mock-ups](#)
13. System completion: [Ss_25_30_20/810 Documentation relating to doors, door assemblies and doorsets](#)

System performance

Ss_25_30_20/218 Fire performance

1. Fire resistance
 - 1.1. Integrity: N/A

2. Reaction to fire: To BS EN 13501-1
3. Verification: Refer to Jenson Hughes Fire Report & K2 Fire Strategy Drawings.
Include testing methodology and Certification

Ss_25_30_20/218 Fire performance Type A

1. Fire resistance
 - 1.1. Integrity: To BS EN 13501-2, E 30 minutes.
 - 1.2. Insulation: To BS EN 13501-2, I 30 minutes.
2. Reaction to fire: To BS EN 13501-1, Class B-s3, d2 or better.
3. Verification: Fire engineer's reports - Fire Strategy Drawings

Ss_25_30_20/240 Acoustic performance

1. Sound insulation rating: To BS EN ISO 717-1, 30 dB(A).
Minimum sound reduction index of 29dB Rw (measured according to BS EN ISO 10140: 2010 and rated accordingly to BS EN ISO 717-1)

Ss_25_30_20/240 Acoustic performance Type A

1. Sound insulation rating: To BS EN ISO 717-1, 55 dB(A).

Ss_25_30_20/250 Mechanical strength requirements

1. Standard: To BS EN 1192.
2. Category of duty: Class 3.

Ss_25_30_20/265 Inclusive design

1. Design standards: Building Regulations – England Approved Document M1 and M2.
2. Design considerations
 - 2.1. Occupancy: Includes children under five years of age.
As identified in accessibility consultant feedback.
3. Risk assessment
 - 3.1. Scope: Required to establish appropriate measures and implications. To be cross-referenced with fire prevention, security, emergency egress and safety in use measures.
Submit for agreement.
4. Best practice design
 - 4.1. Manifestation of glazing: Provide two zones: 850 – 1000 mm and 1400 – 1600 mm from finished floor level. Manifestation to cover 10% of each zone and to contrast visually with background under both natural and artificial lighting.
 - 4.2. Visual contrast: Operating controls, LRV 30 points contrast.
 - 4.3. Door furniture
 - 4.3.1. Operability: Knobs not permitted. Operable with clenched fist.
 - 4.3.2. Projection: 70 mm maximum.

Products

Pr_30_31_76_66 Polyurethane (PUR) expanding foam fillers

1. Description: Door & Acoustic Sealants Generally
2. Manufacturer: Fire & Acoustic Seals Ltd
3. Contact details

- 3.1. Address: Unit 17, Spartan Industrial Estate
Brickhouse Lane
West Bromwich
West Midlands
United Kingdom
B70 0DH
- 3.2. Telephone: [+44 \(0\) 121 521 2179](tel:+441215212179)
- 3.3. Web: www.fireandacousticseals.co.uk
- 3.4. Email: sales@fireandacousticseals.co.uk
4. Product reference: [Fire Door Foam 750 ml](#)
5. Material: Mixture composed of polyurethane in solvents.
6. Colour: Pink.
7. Standard: BS EN 476: Part 20 & 22: 1987, BS EN 1634-1: 2014, BS EN 1366-4: 2008, BS EN 1634-3: 2004 (smoke control test).
8. Third-party certification: Certifire Approved CF5839.
9. Execution: [Pr_30_31_76/620 Joint preparation for sealant application](#)

Pr_30_36_36_04 Anti-finger trap stiles

1. Manufacturer: Contractor's choice
2. Material: Plastic.
3. Colour: RAL colour to be agreed.
4. Execution: [Pr_30_36_36/610 Fasteners for hardware](#)

Pr_30_59_23_96 Wood door frames

1. Description: Door Frames Generally
2. Manufacturer: Contractor's choice
3. Standard: In accordance with [BS 8214](#).
4. Fire performance: Refer to Door schedules and drawings for individual door fire performance requirements.
Classification of fire doors is in accordance with [BS EN 13501-2](#); tested to [BS EN 1634-1](#).
5. Thermal performance: Manufacturers Standard
6. Wood in joinery standard: To [BS EN 942](#).
7. Configuration: Refer to Door schedules and drawings for individual door requirements.
8. Frame
 - 8.1. Material: Manufacturers Standard and in line with performance requirements.
9. Dimensions
 - 9.1. Standard: Manufacturers Standard
 - 9.2. Width and height: Refer to Door schedules and drawings for individual door requirements.
10. Threshold: Refer to floor finishes drawings for location of threshold strips
11. Planted stop: 12 mm.
12. Architraves: Required
13. Perimeter seals or inserts: Smoke Seals
14. Finish: Primed ready for site finish.
15. Colour: TBC by client
16. Execution: [Pr_30_59_23/640 Workmanship in joinery](#); [Pr_30_59_23/605 Moisture content of wood products](#)

Pr_30_59_23_97 Wood flush door leaves

1. Description: Doors Generally
2. Manufacturer: Contractor's choice
3. Standard: In accordance with [BS 8214](#). In accordance with [BS 6375-2](#).
4. Wood in joinery standard: To [BS EN 942](#).
5. Format: Single-leaf, single-action.
6. Thickness: 40 mm.
7. Door leaf size: Refer to Door schedules and drawings for individual door requirements.
8. Performance
 - 8.1. Fire resistance
 - 8.1.1. Integrity: N/A
 - 8.1.2. Insulation: N/A
 - 8.1.3. Radiation: N/A
 - 8.2. Reaction to fire: To [BS EN 13501-1](#), Class B-s3, d2 or better.
 - 8.3. Acoustic performance: N/A
 - 8.4. Strength and durability: To [BS EN 1192](#), Class 3.
9. Finish: Veneer Finish
10. Colour
 - 10.1. External: Tbc with Client
 - 10.2. Internal: Tbc with Client
11. Verification
 - 11.1. Submittals: *Manufacturer's certification & Samples of finish*
 - 11.2. Timing: *Before placement of orders.*

Pr_30_59_23_97 Wood flush door leaves Type A

1. Description: Doors Generally
2. Manufacturer: Contractor's choice
3. Standard: In accordance with [BS 8214](#). In accordance with [BS 6375-2](#).
4. Wood in joinery standard: To [BS EN 942](#).
5. Format: Single-leaf, single-action.
6. Thickness: 44 mm.
7. Door leaf size: Refer to Door schedules and drawings for individual door requirements.
8. Performance
 - 8.1. Fire resistance
 - 8.1.1. Integrity: [BS EN 13501-2](#), E 30 minutes.
 - 8.1.2. Insulation: To [BS EN 13501-2](#), I 30 minutes
 - 8.2. Reaction to fire: To [BS EN 13501-1](#), Class B-s3, d2 or better.
 - 8.3. Acoustic performance: N/A
 - 8.4. Strength and durability: To [BS EN 1192](#), Class 3.
9. Finish: Veneer Finish
10. Colour
 - 10.1. External: Tbc with Client
 - 10.2. Internal: Tbc with Client
11. Verification

- 11.1. Submittals: *Manufacturer's certification & Samples of finish*
- 11.2. Timing: *Before placement of orders.*

Pr_30_59_23_97 Wood flush door leaves Type B

- 1. Description: Double Doors Generally
- 2. Manufacturer: Contractor's choice
- 3. Standard: In accordance with [BS 8214](#). In accordance with [BS 6375-2](#).
- 4. Wood in joinery standard: To [BS EN 942](#).
- 5. Format: Double-leaf, single-action.
- 6. Thickness: 44 mm.
- 7. Door leaf size: Refer to Door schedules and drawings for individual door requirements.
- 8. Performance
 - 8.1. Fire resistance
 - 8.1.1. Integrity: To [BS EN 13501-2](#), E 30 minutes.
 - 8.1.2. Insulation: To [BS EN 13501-2](#), E 30S
 - 8.2. Reaction to fire: To [BS EN 13501-1](#), Class B-s3, d2 or better.
 - 8.3. Acoustic performance: To [BS EN ISO 10140-2](#), sound reduction index Rw 55 dB minimum.
 - 8.4. Strength and durability: To [BS EN 1192](#), Class 4.
- 9. Glazing
 - 9.1. Type: In accordance with [BS 6262-4](#), clear fire-resisting safety glazing. Vision Panel.
- 10. Hardware: Refer to MEP design layouts for locations of doors which require additional hardware.
- 11. Perimeter seals: Fire and smoke.
- 12. Finish: Veneer Finish
- 13. Colour
 - 13.1. External: Tbc with client
 - 13.2. Internal: Tbc with client
- 14. Verification
 - 14.1. Submittals: *Manufacturer's certification & Samples of finish*
 - 14.2. Timing: *Before placement of orders*

Pr_30_59_23_97 Wood flush door leaves Type C

- 1. Description: Double & Half Doors Generally
- 2. Manufacturer: Contractor's choice
- 3. Standard: In accordance with [BS 8214](#). In accordance with [BS 6375-2](#).
- 4. Wood in joinery standard: To [BS EN 942](#).
- 5. Format: Leaf and part-leaf, single-action.
- 6. Thickness: 44 mm.
- 7. Door leaf size: Refer to Door schedules and drawings for individual door requirements.
- 8. Performance
 - 8.1. Fire resistance
 - 8.1.1. Integrity: To [BS EN 13501-2](#), E 30 minutes
 - 8.1.2. Insulation: To [BS EN 13501-2](#), I 30 minutes.
 - 8.2. Acoustic performance: To [BS EN ISO 10140-2](#), sound reduction index Rw 35 dB minimum.
 - 8.3. Strength and durability: To [BS EN 1192](#), Class 3.
- 9. Glazing

- 9.1. Type: In accordance with [BS 6262-4](#), clear fire-resisting safety glazing. Vision Panel
- 10. Hardware: Refer to MEP design layouts for locations of doors which require additional hardware.
- 11. Perimeter seals: Fire & Smoke
- 12. Finish: Veneer Finish
- 13. Colour
 - 13.1. External: Tbc with client
 - 13.2. Internal: Tbc with client
- 14. Verification
 - 14.1. Submittals: *Manufacturer's certification & Samples of finish*
 - 14.2. Timing: *Before placement of orders*

Pr_30_59_97_94 Non Fire Rated - Vision panels

- 1. Description: Non Fire Rated - Vision Panels Generally
- 2. Manufacturer: Contractor's choice
- 3. Fire resistance
- 4. Frame
 - 4.1. Material: Wood.
 - 4.2. Finish: Manufacturers Standard. Submit Proposals.
- 5. Glazing
 - 5.1. Type: In accordance with [BS 6262-4](#), clear single safety glazing.

Pr_30_59_97_94 Fire Rated - Vision panels

- 1. Description: Fire Rated - Vision Panels Generally
- 2. Manufacturer: Contractor's choice
- 3. Fire resistance
 - 3.1. Integrity: To [BS EN 13501-2](#), E 30 minutes.
 - 3.2. Insulation: To [BS EN 13501-2](#), I 30 minutes
- 4. Frame
 - 4.1. Material: Wood.
 - 4.2. Finish: Manufacturers Standard. Submit Proposals.
- 5. Glazing
 - 5.1. Type: In accordance with [BS 6262-4](#), clear single safety glazing.

Pr_35_90_31_33 Floor threshold strips

- 1. Description: Threshold Strips Generally
- 2. Manufacturer: Contractor's choice
- 3. Profile: Refer to Floor Finish Drawings for locations and types.
- 4. Material: Aluminium.
- 5. Finish: Anodized.
- 6. Colour: Black.
- 7. Predrilled: Centred.
- 8. Matching fasteners: Required.

Execution

Pr_30_31_76/620 Joint preparation for sealant application

1. **Surfaces to which sealant must adhere:** Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
2. **Cleaning:** Use materials and methods recommended by sealant manufacturer.
3. **Vulnerable surfaces adjacent to joints:** Do not stain or smear with primer or sealant.

Pr_30_36_36/610 Fasteners for hardware

1. **Colour and finish:** To match hardware.

Pr_30_59_23/605 Moisture content of wood products

1. **Standard:** To [BS EN 942](#).

Pr_30_59_23/640 Workmanship in joinery

1. **Standard:** To [BS 1186-2](#).

Ss_25_30_20/607 Provision of system samples, prototypes and mock-ups

1. **Requirement:** Provide samples of finishes.
2. **Purpose:** For client sign off.
3. **Timing:** Before Ordering for project.

Ss_25_30_20/620 Priming and sealing

1. **Application:** Prime and undercoat.
2. **Wood surfaces inaccessible after installation:** Prime or seal before fixing components.

Ss_25_30_20/640 Fixing of wood frames

1. **Spacing of fixings (frames not pre-drilled) (maximum):** 150 mm from ends of each jamb and at 600 mm centres.

Ss_25_30_20/655 Fixing hardware

1. **Holes for components:** No larger than required for satisfactory fit and operation.
2. **Adjacent surfaces:** Do not damage.
3. **Integrity of the assembly, as established by testing:** Do not compromise.
4. **Cutting:** Cut accurately.
5. **Clearances (maximum):** 8mm, unless protected by intumescent past or similar.

Ss_25_30_20/675 Installation of emergency and panic exit devices

1. **Installation:** Emergency exit devices in accordance with [BS EN 179](#).

Ss_25_30_20/680 Frame sealant joints

1. **Application:** Prepare joints. Form triangular fillets finished to a flat or slightly convex profile.

System completion

Ss_25_30_20/810 Documentation relating to doors, door assemblies and doorsets

1. **Fire safety information:** *Location of every fire door in the building, the fire door certificate relevant to the installed door, fire safety strategy, maintenance information for each component, frequency of inspection and maintenance depending on expected usage of the door.* Refer to Jenson Hughes reports & Architectural Fire Strategy Plans
2. **Fire performance evidence:** Provide third-party certification of product conformity with the specified fire performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located.
3. **Smoke performance:** Provide third-party certification of product conformity with the specified smoke performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located. Test evidence must be in the name of the door or doorset manufacturer.
4. **Acoustic performance evidence:** Provide third-party certification of product conformity for specified acoustic performance for sound attenuating door or doorset supplied.
5. **Submittals**
 - 5.1. **Manufacturer's operation and maintenance instructions for the following products:** Submit proposals
 - 5.2. **Drawing and schedule format:** Electronic.

Ω End of System

Ss_25_30_20_77 Sliding doorset systems

Systems

Ss_25_30_20_77 Sliding doorset systems Storage Doors

1. Description: Fire Rated Storage Doors to CWA Office, Rehearsal room & family/ break out room.
2. System performance: [Ss_25_30_20/218 Fire performance Type A](#); [Ss_25_30_20/250 Mechanical strength requirements](#)
3. System manufacturer: Submit proposals
4. Doorset
 - 4.1. Type: Fire Rated Timber sliding Doors
5. Hardware: Refer to design drawings. Tracks to be 30 min fire rated. Contractor to use Hafele or equal.
6. Filler between frame and reveal: [Pr_30_31_76_66 Polyurethane \(PUR\) expanding foam fillers](#)
7. System accessories: Lockable system.
8. Execution: [Ss_25_30_20/620 Priming and sealing](#); [Ss_25_30_20/640 Fixing of wood frames](#); [Ss_25_30_20/655 Fixing hardware](#); [Ss_25_30_20/607 Provision of system samples, prototypes and mock-ups](#)
9. System completion: [Ss_25_30_20/810 Documentation relating to doors, door assemblies and doorsets](#)

Ss_25_30_20_77 Sliding doorset systems Internal Door Type H

1. Description: Door to Viewing Booth
2. System performance: [Ss_25_30_20/250 Mechanical strength requirements](#)
3. System manufacturer: Contractor's choice
4. Doorset
 - 4.1. Type: [Pr_30_59_24_80 Sliding door and partition sets](#)
 - 4.2. Fasteners: [Pr_20_85_03_84 Stainless steel angles](#)
 - 4.3. Seals or inserts
 - 4.3.1. Frame: No frame - Opening with face sliding door.
 - 4.3.2. Door leaf: Leaf fixed to sliding track top hung.
5. Thresholds: [Pr_35_90_31_33 Floor threshold strips](#)
6. Hardware: As per product / manufacturer's provision.
7. Trim: Plaster finish within door reveal / opening.
8. System accessories: Eye / Viewing Spy hole Locking system.
9. Execution: [Ss_25_30_20/655 Fixing hardware](#); [Ss_25_30_20/607 Provision of system samples, prototypes and mock-ups](#)

System performance

Ss_25_30_20/218 Fire performance Type A

1. Fire resistance
 - 1.1. Integrity: *To* [BS EN 13501-2](#), *E 30 minutes*.
 - 1.2. Insulation: *To* [BS EN 13501-2](#), *I 30 minutes*.
2. Reaction to fire: *To* [BS EN 13501-1](#), *Class B-s3, d2 or better*.
3. Verification: *Fire engineer's reports - Fire Strategy Drawings*

Ss_25_30_20/250 Mechanical strength requirements

1. Standard: To [BS EN 1192](#).
2. Category of duty: Class 3.

Products

Pr_20_85_03_84 Stainless steel angles

1. Description: If required for fixing of sliding bracketry /system
2. Manufacturer: Contractor's choice
3. Material
 - 3.1. Standards: Austenitic stainless steel to [BS EN 10088-2](#) and [BS EN 10088-5](#).

Pr_30_31_76_66 Polyurethane (PUR) expanding foam fillers

1. Description: Door & Acoustic Sealants Generally
2. Manufacturer: [Fire & Acoustic Seals Ltd](#)
3. Contact details
 - 3.1. Address: Unit 17, Spartan Industrial Estate
Brickhouse Lane
West Bromwich
West Midlands
United Kingdom
B70 0DH
 - 3.2. Telephone: [+44 \(0\) 121 521 2179](#)
 - 3.3. Web: [www.fireandacousticseals.co.uk](#)
 - 3.4. Email: sales@fireandacousticseals.co.uk
4. Product reference: [Fire Door Foam 750 ml](#)
5. Material: Mixture composed of polyurethane in solvents.
6. Colour: Pink.
7. Standard: BS EN 476: Part 20 & 22: 1987, BS EN 1634-1: 2014, BS EN 1366-4: 2008, BS EN 1634-3: 2004 (smoke control test).
8. Third-party certification: Certifire Approved CF5839.
9. Execution: [Pr_30_31_76/620 Joint preparation for sealant application](#)

Pr_30_59_24_80 Sliding door and partition sets

1. Manufacturer: Submit proposals
2. Performance: Internal.
3. Arrangement: Face-fixed to inside of opening.
4. Door leaves
 - 4.1. Construction: Timber door set
 - 4.2. Finish and colour: Timber veneer
5. Operation: Manual.
6. Hardware: To be supplied as part of assembly. To be lockable.
7. Execution: [Pr_30_59_23/640 Workmanship in joinery](#)
8. Verification
 - 8.1. Submittals: *Manufacturer's certification & Samples of finish*
 - 8.2. Timing: *Before placement of orders*

Pr_35_90_31_33 Floor threshold strips

1. Description: Threshold Strips Generally
2. Manufacturer: Contractor's choice
3. Profile: Refer to Floor Finish Drawings for locations and types.
4. Material: Aluminium.
5. Finish: Anodized.
6. Colour: Black.
7. Predrilled: Centred.
8. Matching fasteners: Required.

Execution

Pr_30_31_76/620 Joint preparation for sealant application

1. Surfaces to which sealant must adhere: Remove temporary coatings, tapes, loosely adhering material, dust, oil, grease, surface water and contaminants that may affect bond.
2. Cleaning: Use materials and methods recommended by sealant manufacturer.
3. Vulnerable surfaces adjacent to joints: Do not stain or smear with primer or sealant.

Pr_30_59_23/640 Workmanship in joinery

1. Standard: To [BS 1186-2](#).

Ss_25_30_20/607 Provision of system samples, prototypes and mock-ups

1. Requirement: Provide samples of finishes.
2. Purpose: For client sign off.
3. Timing: Before Ordering for project.

Ss_25_30_20/620 Priming and sealing

1. Application: Prime and undercoat.
2. Wood surfaces inaccessible after installation: Prime or seal before fixing components.

Ss_25_30_20/640 Fixing of wood frames

1. Spacing of fixings (frames not pre-drilled) (maximum): 150 mm from ends of each jamb and at 600 mm centres.

Ss_25_30_20/655 Fixing hardware

1. Holes for components: No larger than required for satisfactory fit and operation.
2. Adjacent surfaces: Do not damage.
3. Integrity of the assembly, as established by testing: Do not compromise.
4. Cutting: Cut accurately.
5. Clearances (maximum): 8mm, unless protected by intumescent past or similar.

System completion

Ss_25_30_20/810 Documentation relating to doors, door assemblies and doorsets

1. Fire safety information: *Location of every fire door in the building, the fire door certificate relevant to the installed door, fire safety strategy, maintenance information for each component, frequency*

of inspection and maintenance depending on expected usage of the door. Refer to Jenson Hughes reports & Architectural Fire Strategy Plans

2. **Fire performance evidence:** Provide third-party certification of product conformity with the specified fire performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located.
3. **Smoke performance:** Provide third-party certification of product conformity with the specified smoke performance for each door or doorset supplied. Include identifier schedule or similar to allow individual doors to be located. Test evidence must be in the name of the door or doorset manufacturer.
4. **Acoustic performance evidence:** Provide third-party certification of product conformity for specified acoustic performance for sound attenuating door or doorset supplied.
5. **Submittals**
 - 5.1. **Manufacturer's operation and maintenance instructions for the following products:** Submit proposals
 - 5.2. **Drawing and schedule format:** Electronic.

Ω End of System

Ss_25_45_85_85 Sprayed internal monolithic coating systems

Systems

Ss_25_45_85_85 Sprayed internal monolithic coating systems STC

1. Description: Acoustic spray above stage area
2. System performance: Refer to Acoustic report
3. System manufacturer: [Oscar Acoustics](#)
4. Contact details
 - 4.1. Address: Crowhurst Barn
Crowhurst Lane
West Kingsdown
Kent
TN15 6JE
 - 4.2. Telephone: [+44 \(0\)1474 854902](tel:+44(0)1474854902)
 - 4.3. Web: www.oscar-acoustics.co.uk
 - 4.4. Email: mail@oscar-acoustics.co.uk
5. Product reference: [SonaSpray K-13 Special - Acoustic spray \(SonaSpray K-13 Special - Acoustic Finish 30 mm\)](#)
6. System performance: Reaction to fire to BS EN 13501-1, B-s1, d0 and Class 0 to BS 476
7. Preparation: In accordance with OEL3 Oscar pre-start check list.
8. Coating
 - 8.1. Binding agent: Water based adhesives.
 - 8.2. Insulant: Cellulose fibre.
9. Movement joints
 - 9.1. Form with: Stop bead.
10. Accessories: Stop bead. Pattress. Access hatch.
11. Colour: White.
12. System manufacturer: ICC.
13. Thickness: 30 mm.
14. Weight: 2.7 kg/m².
15. Sound absorption coefficient: To BS EN ISO 354 at 125 Hz: 0.20, at 250 Hz: 0.60, at 500 Hz: 0.95, at 1 kHz: 1.00, at 2 kHz: 1.00, at 4 kHz: 1.00.
16. Noise reduction coefficient: 0.90.
17. Weighted sound absorption coefficient: 0.90 α_w .
18. IndoorEnvironment: M1 emission class certified for building materials (best class), compliant with CDPH/CA Section 01350 / GREENGUARD Gold Certified for Indoor Air Quality / BREEAM rating system HEA Indoor Air Quality / WELL Building Standard®.
19. Environmental: Environmental Product Declaration in accordance with ISO 14025 - EN 15804. Living Building Challenge compliant / BREEAM / LEED / SKA.

Ω End of System

Ss_25_45_88_40

Internal wall tiling systems

Systems

Ss_25_45_88_40 Internal wall tiling systems

1. Description: Tiles Generally
2. System performance: [Ss_25_45_88/221 Suitability of backgrounds for wall tiling systems](#); [Ss_25_45_88/231 Structural performance of wall tiling systems](#); [Ss_25_45_88/241 Durability of wall tiling systems](#); [Ss_25_45_88/250 Aesthetic performance of wall tiling systems](#)
3. System manufacturer: Submit proposals
4. Substrate preparation: New board backgrounds.
5. Intermediate substrate
6. Tiles
 - 6.1. Types: Ceramic Tiles - Refer to Room data drawings. Contractor to allow for review of interiors packages with client final sign off.
 - 6.2. Adhesives: Contractors Choice
 - 6.3. Application: Thin bed, ribbed.
7. Grout: Contractors Choice
8. System accessories: [Pr_35_93_96_92 Tile spacers](#)
9. Samples required: [Ss_25_45_88/306 Product samples](#)
10. Execution: [Ss_25_45_88/621 Suitability of backgrounds \(minimum drying times\)](#); [Ss_25_45_88/626 Making good existing backgrounds generally](#); [Ss_25_45_88/631 Making good plaster](#); [Ss_25_45_88/636 Fixing and preparing board backgrounds](#); [Ss_25_45_88/641 Fixing plasterboard backgrounds](#); [Ss_25_45_88/797 Grouting](#); [Ss_25_45_88/799 Coloured grout](#)
11. System completion:

System performance

Ss_25_45_88/221 Suitability of backgrounds for wall tiling systems

1. Background tolerances: To permit specified flatness and regularity of finished surfaces given the permissible minimum and maximum thickness of bedding.

Ss_25_45_88/231 Structural performance of wall tiling systems

1. Standard: In accordance with [BS 5385-4](#).
2. Requirement: Adequately resist predicted level of abrasion and predicted impact loads.

Ss_25_45_88/241 Durability of wall tiling systems

1. Requirement: System to achieve specified minimum design life, allowing for specified level of acceptable maintenance.
2. Acceptable maintenance
 - 2.1. Standard: In accordance with [BS 7543](#).
 - 2.2. Level of maintenance: Frequent

Ss_25_45_88/250 Aesthetic performance of wall tiling systems

1. Colour and shade: Unintended variations within tiles for use in each area/ room are not permitted.
2. Variegated tiles: Mix thoroughly.
3. Visually defective tiles: Do not use.

4. **Final appearance:** Tiles and joints to have true, regular appearance when viewed under final lighting conditions.

Products

Pr_35_93_96_92 Tile spacers

1. **Manufacturer:** Contractor's choice
2. **Material:** Plastics.
3. **Profile:** Designed to be left in place - visible parts removable.

Ss_25_45_88/306 Product samples

1. **Manufacturer:** Refer to Room data drawings. Contractor to allow for review of interiors packages with client final sign off.
2. **Submittals:** Any samples not already provided by interior designer for client sign. Contractor to provide samples if unable to source / procure.
3. **Purpose:** For use as a reference sample.
4. **Labelling:** Clearly label all submitted samples.
5. **Timing:** Ahead of ordering.

Execution

Ss_25_45_88/621 Suitability of backgrounds (minimum drying times)

1. **Generally:** Start tiling work after the minimum drying times specified have expired.
2. **Minimum drying times**
 - 2.1. **Concrete walls:** Six weeks.
 - 2.2. **Brick/ block walls:** Six weeks.
 - 2.3. **Rendering:** Two weeks.
 - 2.4. **Gypsum plaster:** Four weeks.

Ss_25_45_88/626 Making good existing backgrounds generally

1. **Defective areas of existing substrates**
 - 1.1. **Loose or hollow areas of concrete:** Cut out.
 - 1.2. **Loose, soft, friable or badly cracked areas of plaster:** Remove. Cut back to straight horizontal and vertical edges.
 - 1.3. **Defective areas of glazed brick:** Cut out.
 - 1.4. **Loose or hollow-sounding areas of tiling:** Remove.
 - 1.5. **Paint with unsatisfactory adhesion:** Remove so as not to impair bedding adhesion.
 - 1.6. **Brick walls:** Flush point joints.
2. **Efflorescence, laitance, dirt and other loose material:** Remove.
3. **Organic growth:** Remove.
4. **Deposits of oil, grease, formwork release agents and other surface residues:** Remove.
5. **Soft or unsound adhesive residues:** Remove without damaging backgrounds.
6. **Tile, paint and other non-porous surfaces:** Clean.
7. **Wet backgrounds:** Dry before tiling.

Ss_25_45_88/631 Making good plaster

1. **Plaster:** Dry, solidly bedded, free from dust and friable matter.

2. **Making good:** Use plaster or non-shrinking filler.

Ss_25_45_88/636 Fixing and preparing board backgrounds

1. **Boards:** Dry, securely fixed and rigid with no protruding fixings.

Ss_25_45_88/641 Fixing plasterboard backgrounds

1. **Boards:** Dry, securely fixed and rigid with no protruding fixings and face to receive decorative finish exposed.

Ss_25_45_88/797 Grouting

1. **Sequence:** Grout when bed/ adhesive has set sufficient to prevent disturbance of tiles.
2. **Joints:** Free from dust and debris.
3. **Generally:** Fill joints completely. No gaps.
4. **Profile:** Flush.
5. **Polishing:** When grout is hard, polish tiling with a dry cloth. Leave tile surfaces free from blemishes and residues.

Ss_25_45_88/799 Coloured grout

1. **Staining of tiles:** Not permitted.
2. **Evaluating risk of staining:** Apply grout to a few tiles in a small trial area. If discoloration occurs, apply a protective sealer to tiles and repeat trial.

Ω End of System

Ss_25_60_35_33 Glazing film systems

Systems

Ss_25_60_35_33 Glazing film systems manifestation to curtain walling

1. System performance: [Ss_25_60_35/250 Inclusive design](#)
2. System manufacturer: Contractor's choice
3. Film: [Pr_25_57_51_60 Plastics window films](#)
4. Samples required: [Ss_25_60_35/305 Product samples](#)
5. Execution: [Ss_25_60_35/730 Installing window film](#)

System performance

Ss_25_60_35/250 Inclusive design

1. Design standards: In accordance with [BS 8300-2](#).
2. Design considerations
 - 2.1. Occupancy: Includes children under five years of age.

Products

Pr_25_57_51_60 Plastics window films

1. Description: Manifestation to curtain walling
2. Manufacturer: Contractor's choice
3. Purpose: Safety.
4. Material: Vinyl.
5. Colour: Neutral.
6. Dimensions: to satisfy AD K5

Ss_25_60_35/305 Product samples

1. Submittals: Glazing film.
2. Purpose: For use as a reference sample.
3. Labelling: Clearly label all submitted samples.
4. Timing: Before ordering for project.

Execution

Ss_25_60_35/610 Workmanship generally

1. Standard: In accordance with [BS 8000-7](#).
2. Integrity: Glazing must be wind and watertight under all conditions with full allowance made for deflections and other movements.
3. Dimensional tolerances: Panes and sheets to be within ± 2 mm of specified dimensions where not determined separately by product standard.
4. Materials
 - 4.1. Compatibility: Glass and plastics, surround materials, sealers, primers and paints and clear finishes to be used together to be compatible. Avoid contact between glazing panes and/ or units and alkaline materials such as cement and lime.

- 4.2. **Protection:** Keep materials dry until fixed. Protect insulating glass units and plastics glazing sheets from the sun and other heat sources.
- 5. **Glass to glass jointing**
 - 5.1. **Width:** Consistent and suitable to receive sealant.
 - 5.2. **Gap between panes:** Completely fill. Leave no voids or bubbles.
 - 5.3. **Surplus sealant:** Remove to leave a clean, neatly finished weathertight joint.

Ss_25_60_35/730 Installing window film

- 1. General requirements: [Ss_25_60_35/610 Workmanship generally](#)
- 2. Application
 - 2.1. **Evidence of applicator's competence and experience:** Submit on request.
 - 2.2. **Sample area:** Complete as part of the finished work, in an approved location and obtain approval of appearance before proceeding.
 - 2.3. **Ambient air temperature:** Above 5°C at time of application.
- 3. **Installed film:** Fully adhered to the glass with no peeling, and free from bubbles, wrinkles, cracks or tears.
- 4. **Further contact with applied films:** Avoid until bonding adhesive has cured.
- 5. **Cleaning and maintenance instructions:** Submit copies.

Ω End of System

Ss_30_25_10_35 Gypsum board suspended ceiling systems

Systems

Ss_30_25_10_35 Gypsum board suspended ceiling systems CT1

1. Description: GypCeiling MF Suspended Ceiling
2. System performance: [Ss_30_25_10/207 Gypsum board ceiling systems design requirements Type A](#); [Ss_30_25_10/215 Durability](#); [Ss_30_25_10/210 Structural performance](#); [Ss_30_25_10/290 Compliance with performance requirements Type A](#)
3. System manufacturer: British Gypsum, or similar approved, system reference C100016 (EN)
4. Suspension grid: [Pr_20_85_32_14 Carbon steel dry lining frames](#)
5. Suspension grid fasteners: Manufacturers recommendations
6. Linings:

[Pr_25_71_35_33 Fire-resistant gypsum plasterboards](#)
7. Fasteners: [Pr_20_29_76_65 Plasterboard screws](#)
8. Joint treatment: [Pr_35_31_65_34 Gypsum-based bedding compounds](#)
9. Finish: [Pr_35_31_64_32 Finish plasters](#)
10. Execution: [Ss_30_25_10/680 Installing framing generally](#); [Ss_30_25_10/645 Installing plasterboard to metal framing](#); [Ss_30_25_10/690 Installing upstands and bulkheads to non-demountable ceilings and soffit systems](#); [Ss_30_25_10/665 Sealing gaps and air paths](#)
11. System completion: [Ss_30_25_10/830 Operation and maintenance manual](#); [Ss_30_25_10/895 Verification of performance](#)

Ss_30_25_10_35 Gypsum board suspended ceiling systems CT2

1. Description: GypCeiling MF Suspended Ceiling with Moisture resistant board
2. System performance: [Ss_30_25_10/207 Gypsum board ceiling systems design requirements](#); [Ss_30_25_10/290 Compliance with performance requirements](#); [Ss_30_25_10/207 Gypsum board ceiling systems design requirements Type A](#); [Ss_30_25_10/210 Structural performance](#); [Ss_30_25_10/215 Durability](#)
3. System manufacturer: British Gypsum, or similar approved, system reference C100016 MR1 (EN)
4. Suspension grid: [Pr_20_85_32_14 Carbon steel dry lining frames](#)
5. Suspension grid fasteners: Manufacturers recommendations
6. Linings:

[Pr_25_71_35_33 Fire-resistant gypsum plasterboards](#)
7. Fasteners: [Pr_20_29_76_65 Plasterboard screws](#)
8. Joint treatment: [Pr_35_31_65_34 Gypsum-based bedding compounds](#)
9. Finish: [Pr_35_31_64_32 Finish plasters](#)
10. Execution: [Ss_30_25_10/680 Installing framing generally](#); [Ss_30_25_10/645 Installing plasterboard to metal framing](#); [Ss_30_25_10/690 Installing upstands and bulkheads to non-demountable ceilings and soffit systems](#); [Ss_30_25_10/665 Sealing gaps and air paths](#)
11. System completion: [Ss_30_25_10/830 Operation and maintenance manual](#); [Ss_30_25_10/830 Operation and maintenance manual](#); [Ss_30_25_10/895 Verification of performance](#)

Ss_30_25_10_35 Gypsum board suspended ceiling systems CT4

1. Description: GypCeiling MF Suspended Ceiling Acoustic Class B

2. System performance: [Ss_30_25_10/207 Gypsum board ceiling systems design requirements](#); [Ss_30_25_10/215 Durability](#); [Ss_30_25_10/210 Structural performance](#); [Ss_30_25_10/290 Compliance with performance requirements](#); [Ss_30_25_10/240 Acoustic performance Class B](#)
3. System manufacturer: British Gypsum, or similar approved, system reference C10A126 (EN)
4. Suspension grid: [Pr_20_85_32_14 Carbon steel dry lining frames](#)
5. Suspension grid fasteners: Manufacturers recommendations
6. Linings:
[Pr_25_71_35_33 Fire-resistant gypsum plasterboards](#)
7. Fasteners: [Pr_20_29_76_65 Plasterboard screws](#)
8. Joint treatment: [Pr_35_31_65_34 Gypsum-based bedding compounds](#)
9. Finish: [Pr_35_31_64_32 Finish plasters](#)
10. Execution: [Ss_30_25_10/680 Installing framing generally](#); [Ss_30_25_10/645 Installing plasterboard to metal framing](#); [Ss_30_25_10/690 Installing upstands and bulkheads to non-demountable ceilings and soffit systems](#); [Ss_30_25_10/665 Sealing gaps and air paths](#)
11. System completion: [Ss_30_25_10/830 Operation and maintenance manual](#); [Ss_30_25_10/895 Verification of performance](#)

Ss_30_25_10_35 Gypsum board suspended ceiling systems CT5

1. Description: GypCeiling MF Suspended Ceiling
2. System performance: [Ss_30_25_10/207 Gypsum board ceiling systems design requirements](#); [Ss_30_25_10/215 Durability](#); [Ss_30_25_10/210 Structural performance](#); [Ss_30_25_10/290 Compliance with performance requirements](#); [Ss_30_25_10/240 Acoustic performance Class C](#)
3. System manufacturer: British Gypsum, or similar approved, system reference C10A004 (A) (EN)
4. Suspension grid: [Pr_20_85_32_14 Carbon steel dry lining frames](#)
5. Suspension grid fasteners: Manufacturers recommendations
6. Linings:
[Pr_25_71_35_33 Fire-resistant gypsum plasterboards](#)
7. Fasteners: [Pr_20_29_76_65 Plasterboard screws](#)
8. Joint treatment: [Pr_35_31_65_34 Gypsum-based bedding compounds](#)
9. Finish: [Pr_35_31_64_32 Finish plasters](#)
10. Execution: [Ss_30_25_10/680 Installing framing generally](#); [Ss_30_25_10/645 Installing plasterboard to metal framing](#); [Ss_30_25_10/690 Installing upstands and bulkheads to non-demountable ceilings and soffit systems](#); [Ss_30_25_10/665 Sealing gaps and air paths](#)
11. System completion: [Ss_30_25_10/830 Operation and maintenance manual](#); [Ss_30_25_10/895 Verification of performance](#)

System performance

Ss_30_25_10/207 Gypsum board ceiling systems design requirements

1. Standards: To [BS 8000-0](#), [BS 8212](#) and [BS EN 13964](#).
2. Materials, components and details: Use only the same as those tested and identified in assessment reports.
3. Integrated services fittings: Supported independently of ceiling grid.

Ss_30_25_10/207 Gypsum board ceiling systems design requirements

1. Standards: To [BS 8000-0](#), [BS 8212](#) and [BS EN 13964](#).

2. Materials, components and details: Use only the same as those tested and identified in assessment reports.
3. Integrated services fittings: Supported independently of ceiling grid.

Ss_30_25_10/207 Gypsum board ceiling systems design requirements

1. Standards: To [BS 8000-0](#), [BS 8212](#) and [BS EN 13964](#).
2. Materials, components and details: Use only the same as those tested and identified in assessment reports.
3. Integrated services fittings: Supported independently of ceiling grid.

Ss_30_25_10/207 Gypsum board ceiling systems design requirements Type A

1. Standards: To [BS 8000-0](#), [BS 8212](#) and [BS EN 13964](#).
2. Materials, components and details: Use only the same as those tested and identified in assessment reports.
3. Integrated services fittings: Supported independently of ceiling grid.

Ss_30_25_10/210 Structural performance

1. Standard: To [BS EN 13964](#).
2. Loads
 - 2.1. General: The ceiling system must safely support all specified loads, including services fittings.
 - 2.2. Uniform distributed loads: Maximum 0.6 kN/m².
3. Deflection of grid between points of support (maximum): 0.0025 x span.

Ss_30_25_10/210 Structural performance

1. Standard: To [BS EN 13964](#).
2. Loads
 - 2.1. General: The ceiling system must safely support all specified loads, including services fittings.
 - 2.2. Uniform distributed loads: Maximum 0.6 kN/m².
3. Deflection of grid between points of support (maximum): 0.0025 x span.

Ss_30_25_10/210 Structural performance

1. Standard: To [BS EN 13964](#).
2. Loads
 - 2.1. General: The ceiling system must safely support all specified loads, including services fittings.
 - 2.2. Uniform distributed loads: Maximum 0.6 kN/m².
3. Deflection of grid between points of support (maximum): 0.0025 x span.

Ss_30_25_10/215 Durability

1. Standard: To [BS EN 13964](#).
2. Exposure classification: Class B.

Ss_30_25_10/215 Durability

1. Standard: To [BS EN 13964](#).
2. Exposure classification: Class B.

Ss_30_25_10/215 Durability

1. Standard: To [BS EN 13964](#).
2. Exposure classification: Class B.

Ss_30_25_10/240 Acoustic performance Class B

1. Sound attenuation
2. Sound absorption
 - 2.1. Standards: Measured in accordance with [BS EN ISO 354](#) and rated in accordance with [BS EN ISO 11654](#).
 - 2.2. Sound absorption class: Class B.
3. Other acoustic requirements

Ss_30_25_10/240 Acoustic performance Class C

1. Sound attenuation
2. Sound absorption
 - 2.1. Standards: Measured in accordance with [BS EN ISO 354](#) and rated in accordance with [BS EN ISO 11654](#).
 - 2.2. Sound absorption class: Class C

Ss_30_25_10/290 Compliance with performance requirements

1. Requirement: Proof of compliance with specified performance
2. Ceilings with integrated luminaires: Test or assess with luminaires in place.
3. Method
 - 3.1. Laboratory project testing : For fire performance.
For acoustic performance.
4. Testing authority: UKAS-accredited (or European equivalent).
5. Submissions
 - 5.1. Format: Test results and certification.
Declaration of Performance.
 - 5.2. Timing: At detailed design stage.

Ss_30_25_10/290 Compliance with performance requirements

1. Requirement: Proof of compliance with specified performance
2. Ceilings with integrated luminaires: Test or assess with luminaires in place.
3. Method
 - 3.1. Laboratory project testing : For fire performance.
For acoustic performance.
4. Testing authority: UKAS-accredited (or European equivalent).
5. Submissions
 - 5.1. Format: Test results and certification.
Declaration of Performance.
 - 5.2. Timing: At detailed design stage.

Ss_30_25_10/290 Compliance with performance requirements

1. Requirement: Proof of compliance with specified performance
2. Ceilings with integrated luminaires: Test or assess with luminaires in place.
3. Method

- 3.1. Laboratory project testing : For fire performance.
For acoustic performance.
4. Testing authority: UKAS-accredited (or European equivalent).
5. Submissions
 - 5.1. Format: Test results and certification.
Declaration of Performance.
 - 5.2. Timing: At detailed design stage.

Ss_30_25_10/290 Compliance with performance requirements Type A

1. Requirement: Proof of compliance with specified performance
2. Ceilings with integrated luminaires: Test or assess with luminaires in place.
3. Method
 - 3.1. Laboratory project testing : For fire performance.
For acoustic performance.
4. Testing authority: UKAS-accredited (or European equivalent).
5. Submissions
 - 5.1. Format: Test results and certification.
Declaration of Performance.
 - 5.2. Timing: At detailed design stage.

Products

Pr_20_29_76_65 Plasterboard screws

1. Manufacturer: Contractor's choice
2. Standard: To [BS EN 14566](#).
3. Finish: To manufacturers recommendations
4. Screw type: Self-tapping, TMN.
5. Head type: Contractors choice
6. Length: To manufacturers recommendations
7. Execution: [Pr_20_29_76/620 Fixing with screws](#)
8. Verification
 - 8.1. Submittals: Drawings, schedules, technical information, calculations, and manufacturer's literature.
 - 8.2. Timing: Before placement of orders.

Pr_20_29_76_65 Plasterboard screws

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3. Finish: To manufacturers recommendations
4. Screw type: Self-tapping, TMN.
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8. Verification
 - 8.1. Submittals: Drawings, schedules, technical information, calculations, and manufacturer's literature.
 - 8.2. Timing: Before placement of orders.

Pr_20_85_32_14 Carbon steel dry lining frames

1. Manufacturer: Contractor's choice
2. Standard: To [BS EN 14195](#).
3. Material: Galvanized lightweight cold-rolled steel.
4. Component types
 - 4.1. Wall linings: Lining channel and frame.
 - 4.2. Partitions: C stud. Acoustic.
 - 4.3. Ceilings and soffits: MF ceiling channels - primary grid. MF ceiling channels - secondary grid. MF ceiling channels - perimeter.
 - 4.4. Ceiling hangers: 25 x 25 mm metal angle.
 - 4.5. Casings, duct linings and panels: Angle 25 x 25 mm.
5. Execution: [Pr_20_85_32/611 Installing steel frames for linings](#)

Pr_20_85_32_14 Carbon steel dry lining frames

1. Manufacturer: Contractor's choice
2. Standard: To [BS EN 14195](#).
3. Material: Galvanized lightweight cold-rolled steel.
4. Component types
 - 4.1. Wall linings: Lining channel and frame.
 - 4.2. Partitions: C stud. Acoustic.
 - 4.3. Ceilings and soffits: MF ceiling channels - primary grid. MF ceiling channels - secondary grid. MF ceiling channels - perimeter.
 - 4.4. Ceiling hangers: 25 x 25 mm metal angle.
 - 4.5. Casings, duct linings and panels: Angle 25 x 25 mm.
5. Execution: [Pr_20_85_32/611 Installing steel frames for linings](#)

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3. Material: Galvanized lightweight cold-rolled steel.
4. Component types
 - 4.1. Wall linings: Lining channel and frame.

- 4.2. Partitions: C stud. Acoustic.
- 4.3. Ceilings and soffits: MF ceiling channels - primary grid. MF ceiling channels - secondary grid. MF ceiling channels - perimeter.
- 4.4. Ceiling hangers: 25 x 25 mm metal angle.
- 4.5. Casings, duct linings and panels: Angle 25 x 25 mm.
5. Execution: [Pr_20_85_32/611 Installing steel frames for linings](#)

Pr_25_71_35_33 Fire-resistant gypsum plasterboards

1. Description: British Gypsum Fireline, or similar approved - As required. Refer to Fire Strategy & reflected ceiling plans for locations of ceilings requiring min 30minutes
2. Manufacturer: Contractor's choice
3. Standard: To [BS EN 520](#), type F.
4. Thickness (nominal): 12.5 mm.
5. Edge profile: Square.
6. Execution: [Pr_25_71_35/605 Installing gypsum-based board](#); [Pr_25_71_35/635 Installing additional supports](#); [Pr_25_71_35/645 Joints between gypsum-based boards](#); [Pr_25_71_35/640 Level of dry lining across joints](#); [Pr_25_71_35/660 Repairs to plasterboard](#); [Pr_25_71_35/650 Seamless jointing to gypsum boards](#)

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4. Thickness (nominal): 12.5 mm.
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Pr_35_31_64_32 Finish plasters

1. Manufacturer: Contractor's choice
2. Standard: To [BS EN 13279-1](#).
3. Classification: B1/20/2.
4. Execution: [Pr_35_31_64/620 Preparation for thin coat plaster](#); [Pr_35_31_64/685 Plaster thickness](#)

Pr_35_31_64_32 Finish plasters

1. Manufacturer: Contractor's choice
2. Standard: To [BS EN 13279-1](#).
3. Classification: B1/20/2.
4. Execution: [Pr_35_31_64/620 Preparation for thin coat plaster](#); [Pr_35_31_64/685 Plaster thickness](#)

Pr_35_31_64_32 Finish plasters

1. Manufacturer: Contractor's choice
2. Standard: To [BS EN 13279-1](#).
3. Classification: B1/20/2.
4. Execution: [Pr_35_31_64/620 Preparation for thin coat plaster](#); [Pr_35_31_64/685 Plaster thickness](#)

Pr_35_31_65_34 Gypsum-based bedding compounds

1. Manufacturer: Contractor's choice
2. Category: Submit proposals

Pr_35_31_65_34 Gypsum-based bedding compounds

1. Manufacturer: Contractor's choice
2. Category: Submit proposals

Pr_35_31_65_34 Gypsum-based bedding compounds

1. Manufacturer: Contractor's choice
2. Category: Submit proposals

Pr_35_31_65_34 Gypsum-based bedding compounds

1. Manufacturer: Contractor's choice
2. Category: Submit proposals

Execution

Pr_20_29_76/620 Fixing with screws

1. Finished level of screw heads
 - 1.1. Exposed: Recessed.

- 1.2. Concealed (holes filled or stopped): Sink minimum 2 mm below surface.

Pr_20_29_76/620 Fixing with screws

1. Finished level of screw heads
 - 1.1. Exposed: Recessed.
 - 1.2. Concealed (holes filled or stopped): Sink minimum 2 mm below surface.

Pr_20_29_76/620 Fixing with screws

1. Finished level of screw heads
 - 1.1. Exposed: Recessed.
 - 1.2. Concealed (holes filled or stopped): Sink minimum 2 mm below surface.

Pr_20_85_32/611 Installing steel frames for linings

1. Setting out
 - 1.1. General: Accurately align framing, setting studs vertically.
 - 1.2. Frame centres (maximum): To Manufacturers recommendations
 - 1.3. At openings: Maintain sequence.
 - 1.4. Additional frames: At corners and board edges.
2. Openings
 - 2.1. General: Form accurately.
 - 2.2. Doorsets: Provide sleeved or boxed metal studs and/ or suitable timber framing to achieve strength grade requirements for framing assembly and adequately support weight of door.
 - 2.3. Services penetrations: Allow for associated fire stopping.
3. Studs
 - 3.1. Cavity between wall and studs (minimum): 35 mm generally and 20 mm at opening reveals.
 - 3.2. Bracket centres (maximum): 600 mm.
 - 3.3. Perimeter framing: Fix securely to supporting structures at maximum 600 mm centres.
 - 3.4. Intermediate bracing: Permitted at mid height.

Pr_20_85_32/611 Installing steel frames for linings

1. Setting out
 - 1.1. General: Accurately align framing, setting studs vertically.
 - 1.2. Frame centres (maximum): To Manufacturers recommendations
 - 1.3. At openings: Maintain sequence.
 - 1.4. Additional frames: At corners and board edges.
2. Openings
 - 2.1. General: Form accurately.
 - 2.2. Doorsets: Provide sleeved or boxed metal studs and/ or suitable timber framing to achieve strength grade requirements for framing assembly and adequately support weight of door.
 - 2.3. Services penetrations: Allow for associated fire stopping.
3. Studs
 - 3.1. Cavity between wall and studs (minimum): 35 mm generally and 20 mm at opening reveals.
 - 3.2. Bracket centres (maximum): 600 mm.
 - 3.3. Perimeter framing: Fix securely to supporting structures at maximum 600 mm centres.
 - 3.4. Intermediate bracing: Permitted at mid height.

Pr_20_85_32/611 Installing steel frames for linings

1. Setting out
 - 1.1. General: Accurately align framing, setting studs vertically.
 - 1.2. Frame centres (maximum): To Manufacturers recommendations
 - 1.3. At openings: Maintain sequence.
 - 1.4. Additional frames: At corners and board edges.
2. Openings
 - 2.1. General: Form accurately.
 - 2.2. Doorsets: Provide sleeved or boxed metal studs and/ or suitable timber framing to achieve strength grade requirements for framing assembly and adequately support weight of door.
 - 2.3. Services penetrations: Allow for associated fire stopping.
3. Studs
 - 3.1. Cavity between wall and studs (minimum): 35 mm generally and 20 mm at opening reveals.
 - 3.2. Bracket centres (maximum): 600 mm.
 - 3.3. Perimeter framing: Fix securely to supporting structures at maximum 600 mm centres.
 - 3.4. Intermediate bracing: Permitted at mid height.

Pr_25_71_35/605 Installing gypsum-based board

1. General: Use fixing, jointing, sealing and finishing installation methods recommended by board manufacturer.
2. Cutting plasterboard: Neat and accurate. Do not damage core or tear paper facing.
3. Cut edges: Minimize. Position at internal angles wherever possible. Mask with bound edges of adjacent boards at external corners.
4. Fixing boards: Securely, to suitably prepared and accurately levelled backgrounds.
5. Finishing: Neat. Provide flush, smooth, flat surfaces free from bowing and abrupt changes of level.

Pr_25_71_35/605 Installing gypsum-based board

1. General: Use fixing, jointing, sealing and finishing installation methods recommended by board manufacturer.
2. Cutting plasterboard: Neat and accurate. Do not damage core or tear paper facing.
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Pr_25_71_35/605 Installing gypsum-based board

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Pr_25_71_35/605 Installing gypsum-based board

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

2. **Cutting plasterboard:** Neat and accurate. Do not damage core or tear paper facing.
3. **Cut edges:** Minimize. Position at internal angles wherever possible. Mask with bound edges of adjacent boards at external corners.
4. **Fixing boards:** Securely, to suitably prepared and accurately levelled backgrounds.
5. **Finishing:** Neat. Provide flush, smooth, flat surfaces free from bowing and abrupt changes of level.

Pr_25_71_35/635 Installing additional supports

1. **Support to board edges and perimeters:** At board edges and lining perimeters, as recommended by board manufacturer to suit type and performance of lining.
2. **Fixtures and fittings:** For all fixtures, fittings and service outlets, mark framing positions clearly and accurately on linings. Accurately position all additional framing and fix securely.

Pr_25_71_35/635 Installing additional supports

1. **Support to board edges and perimeters:** At board edges and lining perimeters, as recommended by board manufacturer to suit type and performance of lining.
2. **Fixtures and fittings:** For all fixtures, fittings and service outlets, mark framing positions clearly and accurately on linings. Accurately position all additional framing and fix securely.

Pr_25_71_35/635 Installing additional supports

1. **Support to board edges and perimeters:** At board edges and lining perimeters, as recommended by board manufacturer to suit type and performance of lining.
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Pr_25_71_35/635 Installing additional supports

1. **Support to board edges and perimeters:** At board edges and lining perimeters, as recommended by board manufacturer to suit type and performance of lining.
2. **Fixtures and fittings:** For all fixtures, fittings and service outlets, mark framing positions clearly and accurately on linings. Accurately position all additional framing and fix securely.

Pr_25_71_35/640 Level of dry lining across joints

1. **Sudden irregularities:** Not permitted.
2. **Joint deviations**
 - 2.1. **General:** Measure from faces of adjacent boards using methods and straight edges (450 mm long with feet/ pads) to BS 8212.
 - 2.2. **Tapered edge joints:** 3 mm maximum permissible deviation across joints when measured with feet resting on boards.
 - 2.3. **External angles:** 4 mm maximum permissible deviation for both faces.
 - 2.4. **Internal angles:** 5 mm maximum permissible deviation for both faces.

Pr_25_71_35/640 Level of dry lining across joints

1. **Sudden irregularities:** Not permitted.
2. **Joint deviations**
 - 2.1. **General:** Measure from faces of adjacent boards using methods and straight edges (450 mm long with feet/ pads) to BS 8212.
 - 2.2. **Tapered edge joints:** 3 mm maximum permissible deviation across joints when measured with feet resting on boards.
 - 2.3. **External angles:** 4 mm maximum permissible deviation for both faces.
 - 2.4. **Internal angles:** 5 mm maximum permissible deviation for both faces.

Pr_25_71_35/640 Level of dry lining across joints

1. Sudden irregularities: Not permitted.
2. Joint deviations
 - 2.1. General: Measure from faces of adjacent boards using methods and straight edges (450 mm long with feet/ pads) to BS 8212.
 - 2.2. Tapered edge joints: 3 mm maximum permissible deviation across joints when measured with feet resting on boards.
 - 2.3. External angles: 4 mm maximum permissible deviation for both faces.
 - 2.4. Internal angles: 5 mm maximum permissible deviation for both faces.

Pr_25_71_35/640 Level of dry lining across joints

1. Sudden irregularities: Not permitted.
2. Joint deviations
 - 2.1. General: Measure from faces of adjacent boards using methods and straight edges (450 mm long with feet/ pads) to BS 8212.
 - 2.2. Tapered edge joints: 3 mm maximum permissible deviation across joints when measured with feet resting on boards.
 - 2.3. External angles: 4 mm maximum permissible deviation for both faces.
 - 2.4. Internal angles: 5 mm maximum permissible deviation for both faces.

Pr_25_71_35/645 Joints between gypsum-based boards

1. Surfaces exposed to view: Horizontal joints not permitted. Seek instructions from design coordinator if partition height exceeds maximum available board dimensions.
2. Multilayer boarding: Stagger joints between layers by at least 600 mm.
3. Board edges: Support with additional framing. In multi-layer boarding, support edges of outer layer.
4. Joints: Centre on studs. Stagger joints on opposite sides of studs. In multi-layer boarding, stagger joints between layers.
5. Edge profile
 - 5.1. Tapered: Butt
 - 5.2. Round: Butt
 - 5.3. Square: 3 mm gap.
 - 5.4. Cut or unbound edges: 3 mm gap.
6. Finish: Tape and fill.

Pr_25_71_35/645 Joints between gypsum-based boards

1. Surfaces exposed to view: Horizontal joints not permitted. Seek instructions from design coordinator if partition height exceeds maximum available board dimensions.
2. Multilayer boarding: Stagger joints between layers by at least 600 mm.
3. Board edges: Support with additional framing. In multi-layer boarding, support edges of outer layer.
4. Joints: Centre on studs. Stagger joints on opposite sides of studs. In multi-layer boarding, stagger joints between layers.
5. Edge profile
 - 5.1. Tapered: Butt
 - 5.2. Round: Butt
 - 5.3. Square: 3 mm gap.
 - 5.4. Cut or unbound edges: 3 mm gap.
6. Finish: Tape and fill.

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 - 5.2. Round: Butt
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 - 5.4. Cut or unbound edges: 3 mm gap.
6. **Finish:** Tape and fill.

Pr_25_71_35/650 Seamless jointing to gypsum boards

1. **Cut edges of boards:** Lightly sand to remove paper burrs.
2. **Filling and taping:** Fill joints, gaps and internal angles with jointing compound and cover with continuous lengths of paper tape, fully bedded.
3. **Protection of edges and corners:** Reinforce external angles, stop ends, etc. with specified edge/angle bead.
4. **Finishing:** Apply jointing compound. Feather out each application beyond previous application to give a flush, smooth, seamless surface.
5. **Nail and screw depressions:** Fill with jointing compound to give a flush surface.
6. **Minor imperfections:** Remove by light sanding.

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5. Nail and screw depressions: Fill with jointing compound to give a flush surface.
6. Minor imperfections: Remove by light sanding.

Pr_25_71_35/660 Repairs to plasterboard

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

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 - 2.3. **Finishing:** Fill joints, tape and apply jointing compound to give a flush, smooth surface suitable for redecoration.

Pr_35_31_64/620 Preparation for thin coat plaster

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

Pr_35_31_64/620 Preparation for thin coat plaster

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Pr_35_31_64/620 Preparation for thin coat plaster

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

Pr_35_31_64/685 Plaster thickness

1. **Undercoats (excluding dubbing out and keys):** 5 mm.
2. **Final coat:** 2-3 mm applied in one coat.

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Pr_35_31_64/685 Plaster thickness

1. **Undercoats (excluding dubbing out and keys):** 5 mm.

2. Final coat: 2-3 mm applied in one coat.

Ss_30_25_10/645 Installing plasterboard to metal framing

1. Ceiling linings: Fix securely.
2. Fixing centres (maximum)
 - 2.1. Single layer boarding: 300 mm centres generally and 200 mm centres at external angles.
 - 2.2. Multilayer boarding: Inner layers at 300 mm centres round perimeters; face layer at 300 mm centres.
3. Distance of screws from edges of boards (minimum): 10 mm.
4. Screw heads: Set in a depression. Do not break paper or gypsum core.

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 - 2.2. Multilayer boarding: Inner layers at 300 mm centres round perimeters; face layer at 300 mm centres.
3. Distance of screws from edges of boards (minimum): 10 mm.
4. Screw heads: Set in a depression. Do not break paper or gypsum core.

Ss_30_25_10/665 Sealing gaps and air paths

1. Location of sealant: To perimeter abutments and around openings. At board-to-board and board-to-metal frame junctions in pressurized shafts and ducts.
2. Application: To clean, dry and dust-free surfaces as a continuous bead with no gaps. After sealing, fill gaps greater than 6 mm between floor and underside of plasterboard with jointing compound.

Ss_30_25_10/665 Sealing gaps and air paths

1. Location of sealant: To perimeter abutments and around openings. At board-to-board and board-to-metal frame junctions in pressurized shafts and ducts.
2. Application: To clean, dry and dust-free surfaces as a continuous bead with no gaps. After sealing, fill gaps greater than 6 mm between floor and underside of plasterboard with jointing compound.

Ss_30_25_10/665 Sealing gaps and air paths

1. Location of sealant: To perimeter abutments and around openings. At board-to-board and board-to-metal frame junctions in pressurized shafts and ducts.
2. Application: To clean, dry and dust-free surfaces as a continuous bead with no gaps. After sealing, fill gaps greater than 6 mm between floor and underside of plasterboard with jointing compound.

Ss_30_25_10/680 Installing framing generally

1. Soffit: Timber decking within the proposed extension, unknown within the existing building
2. Frame centres (maximum): To manufacturers recommendations
3. Bracket centres (maximum): To manufacturers recommendations

Ss_30_25_10/680 Installing framing generally

1. Soffit: Timber decking within the proposed extension, unknown within the existing building
2. Frame centres (maximum): To manufacturers recommendations
3. Bracket centres (maximum): To manufacturers recommendations

Ss_30_25_10/680 Installing framing generally

1. Soffit: Timber decking within the proposed extension, unknown within the existing building
2. Frame centres (maximum): To manufacturers recommendations
3. Bracket centres (maximum): To manufacturers recommendations

Ss_30_25_10/690 Installing upstands and bulkheads to non-demountable ceilings and soffit systems

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

Ss_30_25_10/690 Installing upstands and bulkheads to non-demountable ceilings and soffit systems

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

Ss_30_25_10/690 Installing upstands and bulkheads to non-demountable ceilings and soffit systems

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

System completion

Ss_30_25_10/830 Operation and maintenance manual

1. Contents
 - 1.1. Cleaning: Cleaning methods and materials.
 - 1.2. Decoration: Recommendations for redecoration.
 - 1.3. Fire rating: Ceiling systems intended for fire protection – limitations placed on subsequent alterations and maintenance procedures, to ensure that their fire performance is not impaired.
Refer to (68) Series Fire Strategy drawings
 - 1.4. Point loads: Maximum number, position and value of point loads that can be applied to ceiling system after installation.

Ss_30_25_10/830 Operation and maintenance manual

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 - 1.1. Cleaning: Cleaning methods and materials.
 - 1.2. Decoration: Recommendations for redecoration.

- 1.3. **Fire rating:** Ceiling systems intended for fire protection – limitations placed on subsequent alterations and maintenance procedures, to ensure that their fire performance is not impaired.
Refer to (68) Series Fire Strategy drawings
- 1.4. **Point loads:** Maximum number, position and value of point loads that can be applied to ceiling system after installation.

Ss_30_25_10/830 Operation and maintenance manual

1. Contents

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- 1.2. **Decoration:** Recommendations for redecoration.
- 1.3. **Fire rating:** Ceiling systems intended for fire protection – limitations placed on subsequent alterations and maintenance procedures, to ensure that their fire performance is not impaired.
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Ss_30_25_10/830 Operation and maintenance manual

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Refer to (68) Series Fire Strategy drawings
- 1.4. **Point loads:** Maximum number, position and value of point loads that can be applied to ceiling system after installation.

Ss_30_25_10/895 Verification of performance

1. **Requirements:** Check completed system and provide assurance of compliance with specified performance.
2. **Submissions**
 - 2.1. **Format:** Description of inspections, remedial works carried out and certification of compliance.
 - 2.2. **Timing:** At completion of installation.

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- 2.2. **Timing:** At completion of installation.

Ω End of System

Ss_30_25_10_80 Lining and beam casing systems

Systems

Ss_30_25_10_80 Lining and beam casing systems WTE

1. System performance: [Ss_30_25_10/230 Fire performance](#)
2. System manufacturer: British Gypsum - D120001 (C) (EN)
3. Support
 - 3.1. Framing: [Gypframe FEA1 Steel Angle](#)
4. Linings
 - 4.1. Face layer: [Glasroc F FireCase 15mm](#)
5. Joint treatment: As recommended by British Gypsum
6. System accessories: At head of casing to soffit. As recommended by British Gypsum

System performance

Ss_30_25_10/230 Fire performance

1. Fire resistance
 - 1.1. Fire protection to structural beams: *60 minutes protection in line with Fire Engineer Report*
 - 1.2. Fire resistance of cavity fire barriers: *60 minutes protection in line with Fire Engineer Report*
 Ω End of System

Ss_30_25_22_51 Modular suspended ceiling systems

Systems

Ss_30_25_22_51 Modular suspended ceiling systems CT3

1. System performance: [Ss_30_25_22/210 Demountable suspended ceiling design requirements](#); [Ss_30_25_22/220 Durability](#); [Ss_30_25_22/290 Verification of compliance with performance requirements](#); [Ss_30_25_22/260 Acoustic performance Class B](#)
2. System manufacturer: British Gypsum or similar
3. Product reference: C10A003 (C) (EN)
4. Ceiling support: [Pr_35_90_43_12 Ceiling perimeter trims](#); [Pr_20_85_47_51 Metal suspended ceiling hangers](#); [Pr_20_85_32_22 Demountable suspended ceiling grids](#)
5. Ceiling units: [Pr_35_93_13_71 Resin-bonded mineral wool infill units](#)
6. Barriers in ceiling void
 - 6.1. Fire barriers: [Pr_25_80_80_14 Coated woven glass fibre cloth flexible cavity barriers](#)
7. Execution: [Ss_30_25_22/615 Installing demountable suspended ceilings generally](#); [Ss_30_25_22/620 Setting out demountable suspended ceilings](#); [Ss_30_25_22/625 Protection of demountable suspended ceilings](#); [Ss_30_25_22/680 Installing edge battens to demountable suspended ceilings](#); [Ss_30_25_22/700 Installing upstands and bulkheads to demountable suspended ceilings](#); [Ss_30_25_22/710 Installing integrated services in demountable suspended ceilings](#)
8. System completion: [Ss_30_25_22/820 Tools for demountable suspended ceilings](#); [Ss_30_25_22/830 Operation and maintenance manual](#); [Ss_30_25_22/840 Spares for demountable suspended ceilings](#); [Ss_30_25_22/895 Verification of performance](#)

System performance

Ss_30_25_22/210 Demountable suspended ceiling design requirements

1. Standard: To [BS EN 13964](#).
2. Access: Infill units fully demountable.
3. Materials, components and details: Use only the same as those tested and identified in assessment reports.
4. Integrated services fittings: Supported independently of suspended ceiling grid.

Ss_30_25_22/220 Durability

1. Exposure classification: To [BS EN 13964](#), Class C.

Ss_30_25_22/260 Acoustic performance Class B

1. Sound absorption
 - 1.1. Standards: Measured in accordance with [BS EN ISO 354](#) and rated in accordance with [BS EN ISO 11654](#)
 - 1.2. Sound absorption class: Class B.
2. Sound attenuation
 - 2.1. Standards: Laboratory-tested in accordance with [BS EN ISO 10848-2](#) and rated in accordance with [BS EN ISO 717-1](#).

Ss_30_25_22/290 Verification of compliance with performance requirements

1. Purpose: Proof of compliance with specified performance

2. **General requirements:** Include details of performance related to the particular elements of construction.
3. **Ceilings with integrated luminaires:** Test or assess with luminaires in place.
4. **Method**
 - 4.1. **Laboratory project testing :** For acoustic performance.
5. **Testing authority:** UKAS-accredited (or European equivalent).
6. **Submissions**
 - 6.1. **Format:** Declaration of Performance.
 - 6.2. **Timing:** At detailed design stage.

Products

Pr_20_85_32_22 Demountable suspended ceiling grids

1. **Manufacturer:** Contractor's choice
2. **Grid type**
 - 2.1. **Exposed:** Tee section 24 mm.
3. **Components:** Perimeter trims, main runners, cross members, primary channels, splines, noggings, clips, bracing and bridging.
4. **Material:** Aluminium.
5. **Finish as delivered**
 - 5.1. **Coating:** Powder coating to [BS EN 12206-1](#).
 - 5.2. **Colour:** White RAL 9010.
6. **Execution:** [Pr_20_85_32/630 Installing concealed suspension grids](#); Installing demountable tee grid suspended ceiling grids; [Pr_20_85_32/635 Installing demountable suspended ceiling perimeter trims](#)
7. **Verification**
 - 7.1. **Submittals:** Drawings, schedules, technical information, calculations, and manufacturer's literature.
 - 7.2. **Timing:** To comply with programme.

Pr_20_85_47_51 Metal suspended ceiling hangers

1. **Manufacturer:** Contractor's choice
2. **Standard:** To [BS EN 13964](#).
3. **Form:** Single-piece preformed hanger. Wire – 2 mm.
4. **Material:** Carbon steel.
5. **Finish:** Galvanizing to [BS EN ISO 1461](#).
6. **Execution:** [Pr_20_85_47/610 Installing hangers](#)
7. **Verification**
 - 7.1. **Submittals:** UKCA marking Declaration of Performance.
 - 7.2. **Timing:** Before commencement of installation.

Pr_25_80_80_14 Coated woven glass fibre cloth flexible cavity barriers

1. **Manufacturer:** [Siderise Group](#), or similar approved
2. **Contact details**
 - 2.1. **Address:** Forge Industrial Estate
Maesteg
Bridgend

Mid Glamorgan
United Kingdom
CF34 0AH

- 2.2. Telephone: [+44 \(0\)1656 730833](tel:+441656730833)
- 2.3. Web: www.siderise.com
- 2.4. Email: projects@siderise.com
- 3. Product reference: [Siderise FLX Flexible Acoustic Barriers for Suspended Ceilings \(FLX FL10P\)](#), or similar approved
- 4. Thickness: 13 mm.
- 5. Fire performance: None – Acoustic only barrier.
- 6. Sound insulation rating: 27 dB (Rw).
- 7. Membrane: Polymeric barrier central membrane, 10 kg/m².
- 8. Weight: Surface weight: 11 kg/m².
- 9. Verification

Pr_35_90_43_12 Ceiling perimeter trims

- 1. Manufacturer: Contractor's choice
- 2. Material: Aluminium.
- 3. Finish as delivered: Galvanizing to [BS EN ISO 1461](#).
- 4. Colour: Match exposed grid.
- 5. Profile: Angle.

Pr_35_93_13_71 Resin-bonded mineral wool infill units

- 1. Description: Ecophon Hygiene Protec Ds
- 2. Manufacturer: Saint-Gobain Ecophon
- 3. Standard: UKAS-accredited third-party testing organization. European cooperation for accreditation (EA) member-accredited third-party testing organization.
- 4. Third-party certification: UKAS-accredited third-party testing organization. European cooperation for accreditation (EA) member-accredited third-party testing organization.
- 5. Material: Mineral wool.
- 6. VOC emissions: VOC content of resin-bonded mineral wool infill units to be less or equal to emission criteria as defined in BREEAM HEA 03.
- 7. Recycled content: 47% (minimum) to [BS EN ISO 14021](#).
- 8. Unit size: 600 x 600 mm.
- 9. Thickness: 20 mm.
- 10. Surface texture: Plain.
- 11. Colour: White.
- 12. Edge profile: Grooved and rebated.
- 13. Execution: Installing demountable suspended ceiling infill units generally; Forming openings in demountable suspended ceiling infill units

Execution

Pr_20_85_32/630 Installing concealed suspension grids

- 1. Primary support channels: Install level. Do not kink or bend hangers.
- 2. Hangers
 - 2.1. Wire hangers: Twice wrapped around primary channels. Loops tightly formed.

- 2.2. **Angle or 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.

Pr_20_85_32/635 Installing demountable suspended ceiling perimeter trims

1. **Jointing**
 - 1.1. **Criteria:** Neat and accurate, without lipping or twisting.
 - 1.2. **External and internal corners:** Mitre joints generally.
 - 1.3. **Overlap joints at internal corners:** Not permitted.
 - 1.4. **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.
3. **Fixing centres (maximum):** 450 mm.

Pr_20_85_47/610 Installing hangers

1. **Top fixings**
 - 1.1. **General criteria:** Verify suitability of structural soffit for proposed fixing method. Do not use cartridge or powder-activated methods. Do not use rivets for top fixing angle or strap hangers.
 - 1.2. **Concrete:** Drill and insert suitable expanding anchors. Do not use cast-in or shot-fired fixings.
 - 1.3. **Aerated concrete:** Fix through from the top of concrete units and provide a system of primary support channels.
 - 1.4. **Structural steel:** Drill to receive self-tapping screws or bolt fixings, or use proprietary flange clips. Clips should only be used with wire hangers.
 - 1.5. **Metal roof decking:** Fix to sides of liner tray corrugations using self-tapping stainless steel screws.
 - 1.6. **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. Avoid fixing into underside of joists.
 - 1.7. **Hollow structural members:** Submit fixing proposals.
2. **Wire hangers:** Straighten and tension before use.
3. **Installation:** Install vertical or near vertical, without bends or kinks. Do not allow hangers to press against fittings, services, or insulation covering ducts/ pipes.
4. **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.
5. **Extra hangers:** Provide as necessary to carry additional loads.
6. **Fixing wire hangers:** Tie securely at top with tight bends to loops to prevent vertical movement.
7. **Fixing angles and strap hangers:** Do not use rivets for top fixing.
8. **Spacings:** Spacings should be agreed with the suspension grid and hanger manufacturer. Hanger spacings will be dependent on a number of factors including:
 - Supporting structure (type of soffit).
 - Hanger type (wire, rod or strap).
 - Grid type.
 - Infill unit type.
 - Load from integrated fittings and whether or not these are independently supported.
 - Ceiling void depth.
 - Proximity of above ceiling services.

Ss_30_25_22/615 Installing demountable suspended ceilings generally

1. Standard: To [BS EN 13964](#)
2. Height above finished floor level: Refer to (35) Series drawings
3. Stability: Where required, install additional bracing and stiffening to give a stable ceiling system resistant to design loads and pressures.
4. Protective coverings: Protective coverings to be removed at completion.

Ss_30_25_22/620 Setting out demountable suspended ceilings

1. Appearance of completed ceiling: Over the whole of the surface exposed to the room below, a continuous and even surface, jointed (where applicable) at regular intervals.
2. Building elements and features to which the ceiling systems relate: Give notice if not square, straight or level.
3. Grid: Position to suit infill unit sizes. Allow for permitted deviations from nominal sizes of infill unit.
4. Infill and access units, integrated services: Fit correctly and align.
5. Edge or perimeter infill units size (minimum): Half standard width or length.
6. Corner infill unit size (minimum): Half standard width and length.
7. Infill joints and exposed suspension members: Straight, aligned and parallel to walls.

Ss_30_25_22/625 Protection of demountable suspended ceilings

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.

Ss_30_25_22/680 Installing edge battens to demountable suspended ceilings

1. Moisture content at time of fixing: $15\% \pm 2\%$.
2. Finish: Prime, undercoat and final coat of matt black to visible surfaces. Apply before ceiling grid is installed.
3. Fixing: Firmly to perimeter wall or other building structure.
4. Fixing centres (maximum): 450 mm.
5. Screw length (minimum): 50 mm.

Ss_30_25_22/700 Installing upstands and bulkheads to demountable suspended ceilings

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

Ss_30_25_22/710 Installing integrated services in demountable suspended ceilings

1. Criteria: 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.
3. Reaction to fire rating of additional supporting material: Not less than ceiling material.
4. Services outlets
 - 4.1. Supported by ceiling system: Provide additional hangers.
 - 4.2. Independently supported: Provide flanges to support ceiling system.

5. **Services in ceiling void:** Space beneath installed services to be sufficient for installation and removal of ceiling system components and periodic removal and replacement of infill units.

System completion

Ss_30_25_22/820 Tools for demountable suspended ceilings

1. **Access tools to be supplied:** Suction pad lifters.
2. **Quantity:** One set.

Ss_30_25_22/830 Operation and maintenance manual

1. **Contents**
 - 1.1. **Replacement:** Correct methods for removing and replacing components.
 - 1.2. **Cleaning:** Cleaning methods and materials.
 - 1.3. **Decoration:** Recommendations for redecoration.
 - 1.4. **Fire rating:** 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. **Point loads:** Maximum number, position and value of point loads that can be applied to ceiling system after installation.

Ss_30_25_22/840 Spares for demountable suspended ceilings

1. **Spares to be supplied:** One box infill units of each type used for project.

Ss_30_25_22/895 Verification of performance

1. **Requirements:** Check completed system and provide assurance of compliance with specified performance
2. **Submissions**
 - 2.1. **Format:** Description of inspections, remedial works carried out and certification of compliance.
 - 2.2. **Timing:** At completion of installation.

Ω End of System

Ss_30_40_30_80

Single layer sheet warm roof covering systems

Systems

Ss_30_40_30_80 Single layer sheet warm roof covering systems

1. Description: New Roofing System
2. System performance: [Ss_30_40_30/210 Roof covering design](#); [Ss_30_40_30/220 Structural design – resistance to wind uplift](#); [Ss_30_40_30/240 Thermal design](#); [Ss_30_40_30/260 Fire performance](#); [Ss_30_40_30/270 Durability](#); [Ss_30_40_30/290 Verification of compliance with performance requirements](#)
3. System manufacturer: [Bauder Ltd](#)
4. Contact details
 - 4.1. Address: 70 Landseer Road
Ipswich
Suffolk
IP3 0DH
 - 4.2. Telephone: +44 (0)1473 257671
 - 4.3. Web: www.bauder.co.uk
 - 4.4. Email: info@bauder.co.uk
5. Product reference: BauderPIR FA G16
6. Preparation
 - 6.1. Skirtings and vertical work: As recommended by manufacturer with particular need to address existing masonry locations.
7. Lower protection layer: As recommended by manufacturer
8. Air and vapour control layer
 - 8.1. Type: Manufacturers standard
9. Insulation
 - 9.1. Type: Rigid polyurethane foam board faced on both sides with aluminium foil. As per product information and Manufacturers standard
10. System accessories: Additional membranes for high traffic areas and for temporary ballast / fall-safe locations.
11. Execution: [Ss_30_40_30/600 Assessing suitability of substrate](#); [Ss_30_40_30/610 Cleaning existing gutters and outlets](#); [Ss_30_40_30/618 Undertaking work to existing metal flashings](#); [Ss_30_40_30/722 Installing walkway reinforcement](#); [Ss_30_40_30/724 Laying membrane walkways](#); [Ss_30_40_30/730 Protecting incomplete membrane work](#)
12. System completion: [Ss_30_40_30/810 Inspection of completed work](#); [Ss_30_40_30/840 Flood test](#); [Ss_30_40_30/850 Completion](#); [Ss_30_40_30/890 Verification](#)

System performance

Ss_30_40_30/210 Roof covering design

1. General
 - 1.1. Waterproof covering: Secure and weathertight.
 - 1.2. Roof surfaces: Free draining.

Ss_30_40_30/220 Structural design – resistance to wind uplift

1. Attachment: Determine methods of attachment. Provide for the relative movement of materials and effects of vapour pressure. Do not reduce performance of the air and vapour control layer (AVCL).

2. Design wind pressure
 - 2.1. Standard: To [BS EN 1991-1-4](#)

Ss_30_40_30/240 Thermal design

1. Requirement: Determine type and thickness of insulation to satisfy thermal performance.
2. Thermal transmittance (U-value) of roof (maximum): 0.16 W/m²·K.

Ss_30_40_30/260 Fire performance

1. External fire exposure
 - 1.1. Standard: To [BS EN 13501-5](#)
 - 1.2. Requirement: *Class BROOF (t4)*.

Ss_30_40_30/270 Durability

1. System warranty: 20 years.

Ss_30_40_30/290 Verification of compliance with performance requirements

1. Requirement: Proof of compliance with specified performance.
2. Method
 - 2.1. *Previous test results: For structural performance.*
For fire performance.
For thermal performance
3. Submittals
 - 3.1. Format: *Test results and certification*
 - 3.2. Timing: *Before commencing installation*

Execution

Ss_30_40_30/600 Assessing suitability of substrate

1. Substrate
 - 1.1. Condition: Secure, clean, dry, smooth, free from frost, contaminants, voids, protrusions, organic growths, and compatible with the proposed waterproofing system.
 - 1.2. Grade: To correct falls.
 - 1.3. Moisture content at time of laying waterproof coverings: Must not impair integrity of roof or affect application of waterproofing.
2. Preliminary work
 - 2.1. Upstands, kerbs, box gutters, sumps, grooves, chases and expansion joints: Correctly formed.
 - 2.2. Battens, fillets, trims and anchoring plugs or strips: Securely fixed.
 - 2.3. External angles: Chamfered where required to facilitate laying of membrane or to maintain full thickness of applied coating.
 - 2.4. Movement joints: Correctly formed and free of debris.
 - 2.5. Penetrations and outlets: Fixed and located at correct height relative to substrate and free of debris.
 - 2.6. Chases: Correctly sized and cut.
 - 2.7. Outlets: Fixed and located at correct height relative to substrate.

Ss_30_40_30/610 Cleaning existing gutters and outlets

1. Dirt and debris : Remove to restore free flow of water.

2. **Build-up of previous coverings and coatings:** Remove where impeding water flow or to facilitate application of proposed waterproofing.
3. **Damaged sections:** Replace with new to match existing.

Ss_30_40_30/618 Undertaking work to existing metal flashings

1. **General:** Raise to facilitate cleaning of surfaces to receive new waterproofing.
2. **Timing:** Leave raised during coating application and lower only after full curing.
3. **Damaged lengths:** Replace with new.

Ss_30_40_30/722 Installing walkway reinforcement

1. **Attachment:** Strips of adhesive/ bonding compound.
2. **Locations:** Refer to access & maintenance drawings.

Ss_30_40_30/724 Laying membrane walkways

1. **Attachment:** All edges continuously welded to roof membrane and sealed with liquid PVC. In line with Manufacturer's recommendations.
2. **Weld width (minimum):** To Manufacturer's recommendations.

Ss_30_40_30/730 Protecting incomplete membrane work

1. **End of working day:** Provide temporary seal. Prevent water infiltration and protect edges of laid membrane from wind action.
2. **Unfinished areas of the roof:** Keep dry.
3. **On resumption of work:** Cut away tail of membrane from completed area and remove from roof.

System completion

Ss_30_40_30/810 Inspection of completed work

1. **Waterproof coverings surfaces :** When complete or cured, check for discontinuities.
2. **Defective areas:** Repair or apply additional coverings.
3. **Interim and final roof inspections:** Submit reports.
4. **Completion certificate:** Required.

Ss_30_40_30/840 Flood test

1. **Condition of roof before testing**
 - 1.1. **Waterproof covering:** Complete to a stage where integrity can be tested.
 - 1.2. **Surface:** Clean.
2. **Outlets:** Externally cover and seal. Protect against damage from water pressure using temporary kerbs. Do not use plugs to seal outlets.
3. **Flood levels:** 75 mm.
4. **Flood duration:** 24 hours.
5. **Inspection:** Regular to detect leaks.
6. **Completion of test:** Slowly drain roof. Do not overload or flood outlets.
7. **Test results:** Submit, on completion of testing.
8. **Test certificate:** Required.

Ss_30_40_30/850 Completion

1. **Roof areas:** Clean.

2. Outlets: Clear.
3. Flashings: Dress into place.
4. Work necessary to provide a weathertight finish: Complete.
5. Storage of materials on finished surface: Not permitted.
6. Completed waterproof covering : Do not damage. Protect from petroleum-based solvents and other chemicals, traffic and adjacent or high level working.

Ss_30_40_30/890 Verification

1. Requirement: Check completed system and provide assurance of compliance with specified performance.
2. Submittals
 - 2.1. Format: Description of inspections, remedial works carried out and certification of compliance.
 - 2.2. Timing: *At completion of installation.*

Ω End of System

Ss_30_42_30_30

Floor coating systems

Systems

Ss_30_42_30_30 Floor coating systems

1. Description: Coating to existing timber flooring
2. System manufacturer: Contractor's choice
3. Preparation: [Pr_35_31_77_76 Sealers](#)
4. Initial coats: [Pr_35_31_77_96 Wood floor sealers](#)
5. Finishing coats: [Pr_35_31_68_14 Clear floor varnishes](#)
6. Execution: [Ss_40_90_60/610 Control samples of coating systems](#); [Ss_40_90_60/637 Previously coated wood](#); [Ss_40_90_60/700 Applying coating generally](#)

Products

Pr_35_31_68_14 Clear floor varnishes

1. Manufacturer: Contractor's choice
2. Composition: Water-based.
3. Sheen: Satin.

Pr_35_31_77_76 Sealers

1. Manufacturer: Contractor's choice
2. Composition: Waterborne.

Pr_35_31_77_96 Wood floor sealers

1. Manufacturer: Contractor's choice
2. Composition: Water-based urethane.
3. UV inhibitor: Required.
4. Colour: Clear
5. Sheen: Satin.

Execution

Ss_40_90_60/610 Control samples of coating systems

1. Sample areas of finished work: Small area of applied finish to be agreed.
2. Timing: Apply during preliminary installation.
3. Approval of appearance: Obtain before starting general coating work.

Ss_40_90_60/630 Previously coated surfaces generally

1. Preparation: In accordance with [BS 6150](#), clause 11.5.
2. Contaminated or hazardous surfaces
 - 2.1. Coatings suspected of containing lead: Give notice.
 - 2.2. Substrates suspected of containing asbestos: Give notice.
 - 2.3. Significant rot, corrosion or other degradation of substrates: Give notice.
3. Risk assessments and method statements for suspected existing hazardous materials: Submit. 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:** Thoroughly clean to remove dirt, grease and contaminants. Provide key on gloss coated surfaces
8. **Partly removed coatings:** Apply additional preparatory coats to restore original coating thicknesses, with flush surface a junctions.
9. **Completely stripped surfaces:** Prepare as for uncoated surfaces.

Ss_40_90_60/637 Previously coated wood

1. **General requirements:** [Ss_40_90_60/630 Previously coated surfaces generally](#)
2. **Existing finishes:** Completely remove to expose bare wood.
3. **Degraded or weathered surface wood:** Take back to provide suitable substrate.
4. **Degraded substrate wood:** Repair with sound wood of same species.
5. **Exposed resinous areas and knots:** Provide sound surface for good quality coated finish.

Ss_40_90_60/700 Applying coating generally

1. **Application:** In accordance with [BS 6150](#), clause 9.
2. **Environmental 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. **Initial coats**
 - 6.1. **Thickness:** To suit surface porosity.
 - 6.2. **Application:** As soon as possible on same day as preparation is completed.
7. **Finish:** Even, smooth and of uniform colour. Free from brush marks, sags, runs and other defects.
8. **Cutting in:** Cut in neatly.
9. **Doors, opening windows and other moving parts:** Ease before coating, and between coats.

Ω End of System

Ss_30_75_50_05 Aluminium sheet gutter lining systems

Systems

Ss_30_75_50_05 Aluminium sheet gutter lining systems

1. System performance: Ss_30_75_50/245 Fire performance to BS 476; Ss_30_75_50/260 Aesthetic performance; Ss_30_75_50/210 Design of aluminium sheet gutter lining systems
2. System manufacturer: Contractor's choice
3. Substrate
 - 3.1. Material: Pr_25_71_97_50 Marine plywoods
4. Outlets: Catchpits with spigot outlet to internal rainwater pipe.
5. Execution: Ss_30_75_50/615 Suitability of substrates; Ss_30_75_50/620 Making good existing substrates; Ss_30_75_50/625 Preparation of existing timber substrates; Ss_30_75_50/660 Laying valley gutter lining systems to slate and tile roofs; Ss_30_75_50/665 Laying valley gutter lining systems to metal sheet covered roofs; Ss_30_75_50/700 Welding seams in aluminium and stainless steel; Ss_30_75_50/710 Forming drip and step joints generally; Ss_30_75_50/740 Forming batten roll joints with splash lap
6. System completion: Ss_30_75_50/810 Cleaning and maintenance of metal gutter lining systems; Ss_30_75_50/820 Operation and maintenance manual; Ss_30_75_50/890 Verification of performance

System performance

Ss_30_75_50/210 Design of aluminium sheet gutter lining systems

1. Requirement: *Sub contractor to provide design of the gutter lining system*
2. Standard: To BS EN 14783

Ss_30_75_50/245 Fire performance to BS 476

1. Surface spread of flame
 - 1.1. External surfaces: B ROOF (t4)

Ss_30_75_50/260 Aesthetic performance

1. Requirements
 - 1.1. Appearance of system: Regular, true to line and plane with satisfactory fit at junctions.
 - 1.2. Appearance of metal: No marks to visible faces.

Products

Pr_25_71_97_50 Marine plywoods

1. Manufacturer: Contractor's choice
2. Standard: To BS EN 13986.
3. Class: Standard.
4. Preservative treatment: I line with the requirements for the roof installation / product information.

Execution

Ss_30_75_50/615 Suitability of substrates

1. Condition: Dry and free of dust, debris, grease and other deleterious matter.

2. Defective substrates: Give notice.

Ss_30_75_50/620 Making good existing substrates

1. Efflorescence, laitance, dirt and other loose material: Remove without damaging substrate.
2. Organic growth: Remove without damaging substrate.
3. Deposits of oil, grease, formwork release agents and other surface residues: Remove without damaging substrate.
4. Adhesive residues: Remove without damaging substrate.

Ss_30_75_50/625 Preparation of existing timber substrates

1. Remedial work for sound boards: Adjust boards to level and securely fix. Punch in protruding fasteners and plane or sand to achieve an even surface.
2. Moisture content
 - 2.1. Moisture content at time of covering (maximum): 22%.
 - 2.2. Moisture content greater than 16%: Give notice for lead work to allow for pre-treatment.

Ss_30_75_50/630 Metalwork generally

1. Fixing: Support fully. Install to resist wind uplift and to accommodate thermal movement, without distortion or stress. Fix adequately to provide a secure, free draining and completely weathertight installation.
2. Folding: To give straight, regular and tight bends, leaving panels free from ripples, kinks, buckling and cracks.
3. Preforming: Measure, mark, cut and form metal before assembly wherever possible.
4. Burrs and sharp edges: Remove or fold under as work proceeds.
5. Hot work: Soldering, brazing, welding and leadburning are permitted in situ, subject to completion of a 'hot work permit' form and compliance with its requirements.

Ss_30_75_50/635 Aluminium work generally

1. General requirements: [Ss_30_75_50/630 Metalwork generally](#)
2. Standard: In accordance with [CP 143-15](#).
3. Surface protection: Fully coat surfaces to be embedded in concrete or mortar with high build bitumen based paint, after folding.
4. Joints: Do not use sealants or linseed oil to attain waterproofing.

Ss_30_75_50/660 Laying valley gutter lining systems to slate and tile roofs

1. Generally: Preform wherever possible.
2. Laying: Over and beyond tilting fillets.
3. Clear width (minimum): 200 mm.
4. Fixing: Fold edges and clip at 450mm (maximum) centres. Nail top edge of each sheet. Fold or dress bottom end neatly into eaves gutter.

Ss_30_75_50/665 Laying valley gutter lining systems to metal sheet covered roofs

1. General requirements: [Ss_30_75_50/630 Metalwork generally](#); [Ss_30_75_50/635 Aluminium work generally](#)
2. Generally: Preform wherever possible.
3. Clear width (minimum): 150 mm.

4. Junction with roof covering: Fold lining into valley. Overlap gutter lining with roof coverings and fold together.

Ss_30_75_50/700 Welding seams in aluminium and stainless steel

1. General requirements: [Ss_30_75_50/630 Metalwork generally](#)
2. Generally: Neat and consistent.
3. Height of joint before folding (minimum): 30 mm.
4. Overlap (minimum): 10 mm.

Ss_30_75_50/710 Forming drip and step joints generally

1. General requirements: [Ss_30_75_50/630 Metalwork generally](#); [Ss_30_75_50/635 Aluminium work generally](#)
2. Strip or sheet from below step: Fold up full height of step or upstand, with allowance for thermal movement and fix to top edge.
3. Underlap/ continuous clip
 - 3.1. Projection (minimum): 35 mm for forming into drip welt.
 - 3.2. Downstand (minimum): 40 mm with welt at bottom edge.
 - 3.3. Fixing to substrates: Avoid through fixings at longitudinal joint positions.
 - 3.4. Centres (maximum): 100 mm.
4. Strip or sheet from above step: Fold over clips and around underlap projection. Single welt lightly and fold down at an obtuse angle to form a drip and to allow freedom of movement.

Ss_30_75_50/740 Forming batten roll joints with splash lap

1. General requirements: [Ss_30_75_50/630 Metalwork generally](#); [Ss_30_75_50/635 Aluminium work generally](#)
2. Undercloak
 - 2.1. Dressing: Dress three quarters around core.
 - 2.2. Fixing: Nail to core at 150 mm centres for one third length of the sheet starting from the head.
3. Forming overcloak: Dress around core and extend on to main surface to form a 40 mm splash lap.

System completion

Ss_30_75_50/810 Cleaning and maintenance of metal gutter lining systems

1. Cleaning materials and methods: Avoid the use of chemicals which may attack or damage sheet metal.

Ss_30_75_50/820 Operation and maintenance manual

1. Recommended maintenance schedule: Submit.
2. Information to be included: Recommendations for safe dismantling and recycling or disposal of products.
3. Timing: On completion of flashing or weathering systems.

Ss_30_75_50/890 Verification of performance

1. Requirement: Check completed system and provide assurance of compliance with specified performance.
2. Submittals
 - 2.1. Format: Description of inspections, remedial works carried out and certification of compliance.

2.2. Timing: At project completion.

Ω End of System

Ss_32_30_30_03

Aluminium flashing systems

Systems

Ss_32_30_30_03 Aluminium flashing systems

1. Description: Flashing Reveals to Curtain Walling
2. System performance: [Ss_32_30_30/205 Flashing system design](#); [Ss_30_60_50/270 Aesthetic performance](#)
3. System manufacturer: Contractor's choice
4. Aluminium: Manufacturer's Standards
5. Fasteners: Fixed to underside of masonry supports with hidden fixings and tied into curtain walling system.
6. Samples required: Product Information / brochure
7. System completion: [Ss_30_60_50/810 Cleaning and maintenance of flashing and weathering systems](#); [Ss_30_60_50/820 Operation and maintenance manual](#)

System performance

Ss_30_60_50/270 Aesthetic performance

1. Requirements
 - 1.1. Appearance of system: Regular, true to line and plane with satisfactory fit at junctions.
 - 1.2. Appearance of metal: No marks to visible faces.

Ss_32_30_30/205 Flashing system design

1. Requirement: Complete the design of the flashing system.
2. Purpose: To demonstrate compliance with performance and technical requirements.

System completion

Ss_30_60_50/810 Cleaning and maintenance of flashing and weathering systems

1. Cleaning materials and methods: Avoid the use of chemicals which may attack or damage sheet metal.

Ss_30_60_50/820 Operation and maintenance manual

1. Recommended maintenance schedule: Submit.
2. Information to be included: Recommendations for safe dismantling and recycling or disposal of products.
3. Timing: On completion of flashing or weathering systems.

Ω End of System

Ss_35_10_30_60

Permanently-fixed roof ladder systems

Systems

Ss_35_10_30_60 Permanently-fixed roof ladder systems

1. Description: Fixed Access Ladders to Upper Roof level
2. System performance: [Ss_35_10_30/210 Design of permanently fixed roof ladder systems](#); [Ss_35_10_30/230 Design of permanent means of access to machinery](#)
3. System manufacturer: *BILCO TYPE BL-WG industrial Fixed Vertical Ladder with Safety Cage and Guard Rail*
4. Strings: Required.
5. Rungs: Required.
6. Steps
 - 6.1. Material: Aluminium
7. Handrail system: Required.
8. Assembly connectors: Manufacturers' Standard
9. System completion: [Ss_35_10_30/840 Verification of performance](#)

System performance

Ss_35_10_30/210 Design of permanently fixed roof ladder systems

1. Design: Complete the design of the fixed roof ladder system.
2. Standard: To [BS EN 12951](#).
3. Ladder category: BS4211
4. Proposals: Submit technical information, calculations and manufacturers' literature, including requirements for the load-bearing roof structure and method by which the fastening system is to be fixed to the support system and conformation of the type of roofing for which the ladders are designed.
5. Drawings: Submit design development and details.

Ss_35_10_30/230 Design of permanent means of access to machinery

1. Design: Complete the design of the permanent means of access to machinery.
2. Standards
 - 2.1. Fixed means of access between two levels: To [BS EN ISO 14122-1](#).
 - 2.2. Working platforms and walkways: To [BS EN ISO 14122-2](#).
 - 2.3. Stairways, stepladders and guard-rails: To [BS EN ISO 14122-3](#).
 - 2.4. Fixed ladders: To [BS EN ISO 14122-4](#).
3. Proposals: Submit technical information, calculations and manufacturers' literature.
4. Drawings: Submit design development and details.

System completion

Ss_35_10_30/840 Verification of performance

1. Requirement: Check completed system and provide assurance of compliance with specified performance.
2. Submittals

- 2.1. **Format:** Description of inspections, remedial works carried out and certification of compliance.
- 2.2. **Timing:** *At completion of installation.*

Ω End of System

Ss_35_10_85_90 Timber stair systems

Systems

Ss_35_10_85_90 Timber stair systems

1. Description: Viewing Booth Staircase
2. System performance: [Ss_35_10_85/240 Design of timber framing systems](#); [Ss_35_10_85/275 Slip resistance of wearing surfaces](#)
3. Anchors to concrete and masonry
4. Samples required: [Ss_35_10_85/305 Product samples](#)
5. Execution: [Ss_35_10_85/614 Execution of timber structures](#); [Ss_35_10_85/728 Forming notches, holes and joints in timber](#)

System performance

Ss_35_10_85/240 Design of timber framing systems

1. Design life: [BS EN 1990](#)
2. Structural design: *Structure to be designed and executed in accordance with* [BS EN 1990](#),
3. Structural fire performance
 - 3.1. Structural fire resistance: In accordance with [BS EN 1990](#), 2.1 (3) which considers fire, structural resistance must be adequate for the required period of time.

Ss_35_10_85/275 Slip resistance of wearing surfaces

1. Standard: *To* [BS 7976-2](#).
2. Pendulum test value (minimum): 40.

Products

Ss_35_10_85/305 Product samples

1. Manufacturer: Contractor's choice
2. Submittals: Finish samples - Form Samples.
3. Purpose: For approval
4. Timing: Before ordering for project / fabrication

Execution

Ss_35_10_85/614 Execution of timber structures

1. Standard: *To* [BS EN 1995-1-1](#).

Ss_35_10_85/728 Forming notches, holes and joints in timber

1. Notches and holes: Minimize size and avoid if possible. Do not locate near knots or other defects. In the same joist, minimum 100 mm apart.
2. Notches in floor joists
 - 2.1. Position: Locate at top. Form by sawing down to a drilled hole.
 - 2.2. Depth (maximum): 0.15 x joist depth.
 - 2.3. Distance from supports: Between 0.1 and 0.2 x span.
3. Notches in roof rafters, struts and truss members: Not permitted.

4. Holes in floor joists
 - 4.1. Position: Locate on neutral axis.
 - 4.2. Diameter (maximum): 0.25 x joist depth.
 - 4.3. Spacing: 3 x diameter of largest hole.
 - 4.4. Distance from supports: Between 0.25 and 0.4 x span.
5. Holes in struts and columns
 - 5.1. Position: Locate on neutral axis.
 - 5.2. Diameter (maximum): 0.25 x minimum width of member.
 - 5.3. Centres: 3 x diameter of largest hole.
 - 5.4. Distance from ends: Between 0.25 and 0.4 x span.
6. Scarf joints, finger joints and splice plates: Do not use without approval.

Ω End of System

Ss_40_10_40_30 Fixed internal architectural signage systems

Systems

Ss_40_10_40_30 Fixed internal architectural signage systems

1. Description: Feature Signage
2. System performance: [Ss_40_10_40/210 Design of internal signage systems](#)
3. System manufacturer: Contractor's choice
4. Sign type: [Pr_40_10_77_04 Alphanumeric characters](#)
5. System completion: [Ss_40_10_40/840 Spare parts for internal signage](#)

Ss_40_10_40_30 Fixed internal architectural signage systems Room Signage & Wayfinding

1. Description: Room Signage & Wayfinding
2. System performance: [Ss_40_10_40/210 Design of internal signage systems Type A](#)
3. System manufacturer: Contractor's choice
4. Sign type: [Pr_40_10_77_04 Alphanumeric characters Type A](#)
5. System completion: [Ss_40_10_40/840 Spare parts for internal signage Type A](#)

System performance

Ss_40_10_40/210 Design of internal signage systems

1. Detailed design
 - 1.1. Requirement: Complete the design of the internal signage system, including facing information, components, inserts, accessories and fixings necessary to complete the system. Allow for coordinating information on names of personnel, departments and routes.
 - 1.2. Purpose: Feature Signage
2. Geometric shapes, colours and layout: Design drawing to be provided between specialist sub contractor, graphic designer & architect. Design ongoing.

Ss_40_10_40/210 Design of internal signage systems Type A

1. Detailed design
 - 1.1. Requirement: Complete the design of the internal signage system, including facing information, components, inserts, accessories and fixings necessary to complete the system. Allow for coordinating information on names of personnel, departments and routes.
 - 1.2. Purpose: Door Numbering & General Wayfinding
2. Standard: To [BS 559](#). Wayfinding strategy.
3. Geometric shapes, colours and layout: Design drawing to be provided between specialist sub contractor, graphic designer & architect. Design ongoing.
4. Design standard for disabled users
 - 4.1. Standard: [BS 8300-2](#) In accordance with part M
 - 4.2. Surface
 - 4.2.1. Font: To be confirmed
5. Language: English
 - 5.1. Format: Drawings in digital format
 - 5.2. Timing: Ahead of placing order

Products

Pr_40_10_77_04 Alphanumeric characters

1. Description: 'The Civic'
2. Manufacturer: Contractor's choice
3. Font type: To be provided by graphic designer
4. Colour: Refer to design drawings
5. Size: Refer to design drawings
6. Verification
 - 6.1. Submittals: *Drawings, schedules, technical information, calculations and manufacturer's literature.*
Sample.
 - 6.2. Timing: *Before placement of orders.*

Pr_40_10_77_04 Alphanumeric characters Type A

1. Description: Wayfinding & Room Numbering
2. Manufacturer: Contractor's choice
3. Font type: To be provided by graphic designer
4. Colour: Refer to design drawings
5. Size: Refer to design drawings
6. Verification
 - 6.1. Submittals: *Drawings, schedules, technical information, calculations and manufacturer's literature.*
Sample.
 - 6.2. Timing: *Before placement of orders.*

System completion

Ss_40_10_40/840 Spare parts for internal signage

1. Spares to be supplied
 - 1.1. Signage type: Bespoke.

Ss_40_10_40/840 Spare parts for internal signage Type A

1. Spares to be supplied
 - 1.1. Signage type: Bespoke.

Ω End of System

Ss_40_15_35_19 Curtain and blind systems

Systems

Ss_40_15_35_19 Curtain and blind systems

1. Description: Proposed blinds in various parts of the building
2. System performance: [Ss_40_15_35/220 Fire performance](#); [Ss_40_15_35/290 Compliance with performance requirements](#)
3. System manufacturer: Contractor's choice
4. Blinds: [Pr_30_59_07_72 Type B Manual Roller Blinds](#); [Pr_30_59_07_72 Type A Mechanical Roller blinds](#); [Pr_30_59_07_72 Type C Crank Roller blinds - Child friendly](#); [Pr_40_30_20_84 Type 2 Stage Curtain](#); [Pr_40_30_20_02 Type 1 and 3 Acoustic curtain](#)
5. Sample required
 - 5.1. Product samples
 - 5.1.1. Submittals: Material samples
 - 5.1.2. Purpose: for client approval
 - 5.1.3. Timing: Before ordering for project
 - 5.2. Prototypes or mock-ups
 - 5.2.1. Requirements: Or use as reference samples

System performance

Ss_40_15_35/220 Fire performance

1. Fire performance
 - 1.1. Reaction to fire: To [BS EN 13501-1](#), Class B-s3, d2 or better.

Ss_40_15_35/290 Compliance with performance requirements

1. Requirement: *Proof of compliance with specified performance*
2. Method
3. Submissions
 - 3.1. Format: *Test results and/ product certification.*

Products

Pr_30_59_07_72 Type A Mechanical Roller blinds

1. Description: Mechanical black out blinds in the main Performance space
2. Manufacturer: Contractor's choice
3. Standards: To [BS 5867-1](#), [BS 5867-2](#) and [BS EN 13120](#).
4. Position: To face of performance windows - please refer to 31 series reference drawings.
5. Dimensions (minimum width x depth): Site measure - Allow for additional cover over window openings. Not to sit within reveal.
6. Headrail
 - 6.1. Material: Powder coated extruded aluminium.
 - 6.2. Colour: Black
7. Blinds
 - 7.1. Material: Polyester

- 7.2. Blackout function: Required.
- 7.3. Colour: TBC with Client
- 8. Tube
 - 8.1. Material: Extruded aluminium.
- 9. Tube covers
 - 9.1. Material: Powder coated extruded aluminium.
 - 9.2. Colour: Black
- 10. Operation: 24 V d.c. motorized - please refer to MEP design
- 11. Operating effort: To [BS EN 13120](#), class 1. To [BS EN 13120](#), class 2.
- 12. Accessories: Remote electrical operation.
- 13. Execution: [Pr_30_59_07/630 Installing blinds](#)

Pr_30_59_07_72 Type B Manual Roller Blinds

- 1. Description: Manual roller blinds in various locations of the building
- 2. Manufacturer: Contractor's choice
- 3. Standards: To [BS 5867-1](#), [BS 5867-2](#) and [BS EN 13120](#).
- 4. Position: To various rooms - please refer to 31 series reference drawings.
- 5. Dimensions (minimum width x depth): Site measure - Allow for additional cover over window openings. Not to sit within reveal.
- 6. Headrail
 - 6.1. Material: Powder coated extruded aluminium.
 - 6.2. Colour: Black.
- 7. Blinds
 - 7.1. Material: Polyester.
 - 7.2. Blackout function: Required.
 - 7.3. Colour: Tbc with client
- 8. Tube
 - 8.1. Material: Extruded aluminium.
- 9. Tube covers
 - 9.1. Material: Powder coated extruded aluminium.
 - 9.2. Colour: Black.
- 10. Operation: Manual, plastic ball chain.
- 11. Accessories: Cord or ball-chain tensioning system.
- 12. Execution: [Pr_30_59_07/630 Installing blinds](#)

Pr_30_59_07_72 Type C Crank Roller blinds - Child friendly

- 1. Description: Child safe crank roller blinds
- 2. Manufacturer: Contractor's choice
- 3. Standards: To [BS 5867-1](#), [BS 5867-2](#) and [BS EN 13120](#).
- 4. Position: 00.58 Creche / Family Room windows. Please refer to 31 series reference plans.
- 5. Dimensions (minimum width x depth): Site measure - Allow for additional cover over window openings. Not to sit within reveal.
- 6. Headrail
 - 6.1. Material: Powder coated extruded aluminium.
 - 6.2. Colour: Black

7. Blinds
 - 7.1. Material: Polyester.
 - 7.2. Blackout function: Required.
 - 7.3. Colour: TBC with Client
 - 7.4. Pattern: TBC with Client
8. Tube
 - 8.1. Material: Extruded aluminium.
9. Tube covers
 - 9.1. Material: Powder coated extruded aluminium.
 - 9.2. Colour: Black.
10. Operation: Manual, child safe crank.
11. Operating effort: To [BS EN 13120](#), class 1. To [BS EN 13120](#), class 2.
12. Testing: Safety factor.
13. Mechanism endurance: To [BS EN 13120](#), class 1. To [BS EN 13120](#), class 2. To [BS EN 13120](#), class 3.
14. Execution: [Pr_30_59_07/630 Installing blinds](#)

Pr_40_30_20_02 Type 1 and 3 Acoustic curtain

1. **Description:** Full height Acoustic Curtain - Type 1 and 3 - please refer to 42 series and 72 series information.
2. **Manufacturer:** Recommended supplier confirmed with Acoustician - Gerriets
3. **Product reference:** Sound Curtain OFFICE motorised
Item No. t1a5902*
4. **Colour and Finish :** Supplier to advise on colour and finish options. To be presented to the Client and Acoustician.

Custom designed outer layers according to client requirements.

5. **Colour and Finish:** Supplier to advise on colour and finish options. To be presented to the Client and Acoustician.

Custom designed outer layers according to client requirements.

Pr_40_30_20_84 Type 2 Stage Curtain

1. **Description:** Full height Stage curtains proposed to performance space - Type 2. Refer to 42-301 and 72-204 architectural drawings.
2. **Manufacturer:** Recommended supplier as agreed with Acoustic Consultant - Gerriets
3. **Product reference:** Sound Curtain STAGE Item No.1252
4. **Layers:** 5 layers specification required as confirmed by Acoustician.
5. **Colour and Finish :** Supplier to advise on colour and finish options. To be presented to the Client and Acoustician.

Custom designed outer layers according to client requirements.

6. **Standards:** To meet all acoustic requirements as advised by Acoustic Consultant. Please refer to Acoustic Stage 4 Report.

Stage Curtains: Full height curtains weighting minimum 0.2 kg/m2, folded at 100% fullness.

7. **Accessories:** Automated if required. To be confirmed by Client on preference.

Execution

Pr_30_59_07/630 Installing blinds

1. **Orientation:** To be confirmed on site
2. **Position:** To be confirmed on site
3. **Fixing:** Face fix is used for fitting a blind to a wall or window frame, such that the bracket sits directly behind the blind.

Top fix is used for fitting a blind to the underside of the window reveal or to a ceiling, so that the bracket sits directly above the blind.

When fixing roller blinds, the standard arrangement relates to the fabric being positioned closest to the window. Reverse arrangement relates to the fabric dropping from the front of the roll, typically used to provide clearance to window operating handles where, for example, the blind is mounted within a window reveal.

4. **Electronic controls:** Individual control to each blind on mechanical roller blinds.

Ω End of System

Ss_40_15_75_02 Changing Places Accessible WC package systems

Systems

Ss_40_15_75_02 Changing Places Accessible WC package systems

1. Description: Changing Places Accessible WC. Room
2. System performance:
3. System manufacturer: [Closomat](#)
4. Contact details
 - 4.1. Address: Building 1
Brooklands Place
Brooklands Road
Sale
Cheshire
United Kingdom
M33 3SD
 - 4.2. Telephone: [0800 374076](tel:0800374076)
 - 4.3. Web: www.closomat.co.uk
 - 4.4. Email: info@closomat.co.uk
5. Product reference: [Changing Places by Closomat \(with Shower\)](#)
6. System performance: Compliance with performance requirements.
7. Components: Accessible WC equipment packages.
8. System accessories:
9. Execution: Installing sanitary assemblies generally.
10. System completion: Documentation.
11. Ceiling track: Hillrom.
12. Bench: Pressalit height adjustable changing bench.
13. WC pan: Closomat Palma Vita.
14. Wash basin: Pressalit height adjustable wash basin.
15. Handrails:
16. Dispenser:
17. Mirror:
18. Alarm: Pull cord alarm and reset button.
19. Floor drain:
20. Shower fittings:
21. Verification:
22. Execution:
23. System completion:

Ω End of System

Ss_50_30_02_28

External gravity rainwater drainage systems

Systems

Ss_50_30_02_28 External gravity rainwater drainage systems

1. System performance: [Ss_50_30_02/290 Compliance with performance requirements](#); [Ss_50_30_02/210 Design of gravity rainwater drainage system](#)
2. System manufacturer: Contractor's choice
3. Combined fascias soffits and gutters
 - 3.1. Materials: [Pr_65_50_35_02 Aluminium combined fascias, soffits and gutters](#)
 - 3.2. Supports
 - 3.2.1. Brackets: Not required. Direct fix.
4. Chutes
 - 4.1. Materials: [Pr_65_50_35_99 Zinc rainwater chutes](#)
 - 4.2. Fixings: Not required. Built-in.
5. External rainwater pipework
 - 5.1. Rainwater downpipes
 - 5.1.1. Downpipe types: [Pr_65_52_03_04 Aluminium rainwater pipes and fittings](#)
 - 5.1.2. Jointing: As recommended by pipework manufacturer.
 - 5.2. Supports
6. Execution: [Ss_50_30_02/662 Access for testing and maintenance of rainwater drainage system](#); [Ss_50_30_02/642 Fixing and jointing pressed metal external gravity rainwater drainage pipework](#); [Ss_50_30_02/610 Installation of rainwater drainage generally](#); [Ss_50_30_02/658 Installing rainwater pipe identification](#); [Ss_50_30_02/602 Preparation](#); [Ss_50_30_02/646 Installing siphonic or pressure-assisted full-bore rainwater drainage pipework](#); [Ss_50_30_02/605 Removing rainwater drainage systems](#)
7. System completion: [Ss_50_30_02/830 Documentation](#); [Ss_50_30_02/818 Rainwater drainage gutter test](#); [Ss_50_30_02/820 Rainwater drainage system maintenance instructions](#); [Ss_50_30_02/822 Rainwater drainage system pre-handover checks](#); [Ss_50_30_02/810 Testing rainwater drainage generally](#); [Ss_50_30_02/890 Verification of performance](#)

System performance

Ss_50_30_02/210 Design of gravity rainwater drainage system

1. Design: Complete the design of the rainwater drainage system.
2. Standards: In accordance with England Building Regulations [Approved Document H3](#), section 1.
3. Design parameters
 - 3.1. Design life of building: 10 years.
 - 3.2. Design rate category: Category 2 to BS EN 12056-3, NB.2.1.
 - 3.3. Available capacity of existing below-ground drainage (maximum): Refer to Civil engineers information.
4. Requirements: Submit proposals including detailed design drawings, technical information, calculations and manufacturers' literature.

Ss_50_30_02/290 Compliance with performance requirements

1. Requirement: Proof of compliance with specified performance.
2. Method: [BS EN 12056-3](#).

3. Testing authority: UKAS-accredited independent.

Products

Pr_65_50_35_02 Aluminium combined fascias, soffits and gutters

1. Manufacturer: Contractor's choice
2. Form: Fascia, soffit and gutter.
3. Third-party product certification: *BBA Agrément certificate*.
4. Fascias
 - 4.1. Profile: Rectangular.
 - 4.2. Size: As design drawings
 - 4.3. Thickness or gauge: 1.6 mm.
 - 4.4. Finish: Powder coating to [BS EN 12206-1](#).
 - 4.5. Colour: RAL colour to be agreed.
 - 4.6. Film thickness (minimum): Coating applicator to determine.
5. Soffits
 - 5.1. Profile: Rectangular.
 - 5.2. Size: As design drawings
 - 5.3. Thickness or gauge: 1.6 mm.
 - 5.4. Finish: Powder coating to [BS EN 12206-1](#).
 - 5.5. Colour: RAL colour to be agreed.
6. Gutters
 - 6.1. Profile: Rectangular box.
 - 6.2. Size: 150 x 150 mm.
 - 6.3. Thickness or gauge: 1.6 mm.
 - 6.4. Finish: Mill.
 - 6.5. Colour: Black.
7. Integral accessories: Preformed corners. Stop ends. Support framing.
8. Verification
 - 8.1. Submittals: *Manufacturer's certification*.
 - 8.2. Timing: *To comply with programme*.

Pr_65_50_35_99 Zinc rainwater chutes

1. Manufacturer: Contractor's choice
2. Materials
 - 2.1. Standard: To [BS EN 988](#).
 - 2.2. Temper: Standard.
 - 2.3. Finish: Natural.
3. Form: Zinc rainwater chute. Fully supported, to discharge into hopper.
4. Dimensions
 - 4.1. Material thickness: 0.8 mm.
5. Verification
 - 5.1. Submittals: *Manufacturer's certification*.
 - 5.2. Timing: *To comply with programme*.

Pr_65_52_03_04 Aluminium rainwater pipes and fittings

1. Manufacturer: Contractor's choice
2. Standard: To [BS 8530](#).
3. Third-party product certification: BBA Agrément certificate.
4. Form: Extruded.
5. Section: Square.
6. Size (nominal): 100 x 100 mm.
7. Minimum thickness or gauge: 1.6 mm.
8. Finish and colour
 - 8.1. Finish: Powder coating to [BS EN 12206-1](#).
 - 8.2. Colour: Black.
9. Execution: [Pr_65_52_03/630 Fixing and jointing rainwater and above ground drainage pipes](#)
10. Verification
 - 10.1. Submittals: *Manufacturer's certification*

Execution

Pr_65_52_03/630 Fixing and jointing rainwater and above ground drainage pipes

1. Fixing
 - 1.1. Supports
 - 1.1.1. Stability: Fix securely.
 - 1.1.2. Fixing centres (nominal): 1.8 m.
 - 1.2. Pipework
 - 1.2.1. Alignment: Plumb and/ or true to line.
 - 1.2.2. Externally socketed pipes and fittings: Fix with socket ends forming inlet for each individual pipe.
2. Jointing
 - 2.1. Jointing differing pipework systems: Use adaptors intended for the purpose.
 - 2.2. Cut ends of pipes: Clean and square. Remove burrs and swarf. Chamfer ends of plastics pipes before inserting into ring seal sockets. Where metal pipes are to be used, recoat bare metal with appropriate primer and paint.
 - 2.3. Jointing or mating surfaces: Clean and, where necessary, use jointing lubricant immediately to allow safe and efficient jointing assembly.
 - 2.4. Unsealed joints: Wedge unsealed joints to cast pipes with timber or sheet lead cut-offs to centralize pipe joints and reduce rattling.
 - 2.5. Expansion joint pipe sockets: Fix rigidly to buildings. Elsewhere, provide brackets and fixings that allow pipes to slide.
 - 2.6. Solvent-welded pipelines: Install ring seal joints in all long runs of solvent-welded pipework, as movement joints.

Ss_50_30_02/602 Preparation

1. Below-ground drainage: Complete before commencing rainwater installation or make temporary arrangements for dispersal of rainwater without damage or disfigurement of the building fabric and surroundings.
2. Inaccessible surfaces: Paint fully before commencing rainwater installation.

Ss_50_30_02/605 Removing rainwater drainage systems

1. Scope: Entire system.

Ss_50_30_02/610 Installation of rainwater drainage generally

1. Collection and distribution of rainwater: Complete, and without leakage or noise nuisance.
2. Electrolytic corrosion: Avoid contact between dissimilar metals where corrosion may occur.
3. Plastics and galvanized steel pipes: Do not bend. Plumb and/ or true to line.
4. Allowance for thermal and building movement: Provide and maintain clearance as fixing and jointing proceeds.
5. Protection: Fit purpose-made temporary caps to prevent ingress of debris. Fit access covers, cleaning eyes and blanking plates as the work proceeds.

Ss_50_30_02/642 Fixing and jointing pressed metal external gravity rainwater drainage pipework

1. Fixing
 - 1.1. Supports
 - 1.1.1. Stability: Fix securely.
 - 1.1.2. Fixing centres (nominal): 1.8 m.
 - 1.2. Pipework
 - 1.2.1. Alignment: Plumb and/ or true to line.
 - 1.2.2. Externally socketed pipes and fittings: Fix with sockets facing upstream.
2. Jointing
 - 2.1. Method: Push fit.
 - 2.2. Jointing differing pipework systems: Use adaptors intended for the purpose.
 - 2.3. Cut ends of pipes: Clean and square. Remove burrs and swarf.
 - 2.4. Jointing or mating surfaces: Clean and, where necessary, lubricate immediately before assembly.

Ss_50_30_02/646 Installing siphonic or pressure-assisted full-bore rainwater drainage pipework

1. Fixing: Secure. Prevent movement during extreme operating conditions including oscillating pressure and cavitation. Provide for thermal movement.
2. Number of joints, bends and offsets: Minimize.
3. Condition on completion: Smooth, consistent bore, clean and free from distortion, wrinkling, cracks and other defects.

Ss_50_30_02/658 Installing rainwater pipe identification

1. Position: Junctions, both sides of slabs, bulkheads and wall penetrations.

Ss_50_30_02/662 Access for testing and maintenance of rainwater drainage system

1. Requirement: Install pipework and gutters with adequate clearance to permit testing, cleaning and maintenance, including painting where necessary.
2. Access fittings and rodding eyes: Position so that they are not obstructed.

System completion

Ss_50_30_02/810 Testing rainwater drainage generally

1. Dates for testing: Give notice.
2. Pipework: Complete, and fix securely. Make free from defects, obstruction and debris before testing.
3. Testing
 - 3.1. Clean water: Provide.
 - 3.2. Testing apparatus: Provide.
 - 3.3. Smoke testing: Do not use.

Ss_50_30_02/818 Rainwater drainage gutter test

1. Preparation: Temporarily block all outlets.
2. Testing: Fill gutters to overflow level and after 5 minutes closely inspect for leakage.
3. Records of tests: Submit.

Ss_50_30_02/820 Rainwater drainage system maintenance instructions

1. Printed instructions: Submit at completion.
2. Contents: Recommended procedures for maintenance of the rainwater installation, including full details of recommended inspection, cleaning and repair procedures.

Ss_50_30_02/822 Rainwater drainage system pre-handover checks

1. Construction rubbish, debris, swarf, temporary caps and fine dust which may enter the rainwater system: Remove. Do not sweep or flush into the rainwater system.
2. Access covers, rodding eyes, outlet gratings etc.: Secure complete with fixings.

Ss_50_30_02/830 Documentation

1. Operating and maintenance instructions
 - 1.1. Scope: Submit for the system giving optimum settings for controls.
 - 1.2. Product information: Include product description, date of purchase, performance characteristics, application (suitability for use), method of operation and control, and cleaning and maintenance requirements.
 - 1.3. Format: Paper copy & Digital copy
2. Record drawings
 - 2.1. Content: Location and arrangement of plant in plant rooms. Location, size and route of drainage services. Location of outlets.
 - 2.2. Format: Electronic.
3. Submittal date: At handover.

Ss_50_30_02/890 Verification of performance

1. Requirement: Check completed system and provide assurance of compliance with specified performance.
2. Submittals
 - 2.1. Format: Description of inspections, remedial works carried out and certification of compliance.
 - 2.2. Timing: At project completion.

Ω End of System

Ss_80_30_25_90 Stepover Ladder

Systems

Ss_80_30_25_90 Stepover Ladder

1. Description: Step over platform for ductwork and roof plant.
2. System manufacturer: [Bilco UK](#)
3. Contact details
 - 3.1. Address: Pavilion 7, Fornham Business Court
Hall Farm
Fornham St. Martin
Bury St Edmunds
Suffolk
IP31 1SL
 - 3.2. Telephone: [+44 \(0\)1284 701696](tel:+44(0)1284701696)
 - 3.3. Web: www.bilcouk.co.uk
 - 3.4. Email: bilcouk@bilco.com
4. Product reference: [BP45 Stepover Ladder \(BP45-A-F\)](#)
5. Decking and flooring
 - 5.1. Material: Open mesh steel.
6. Toe plates: Required.
7. Handrail system: Top rail: 35 mm diameter tube; Midrail: 35 mm diameter tube. Height (nominal): Ladder: 900 mm; Platform: 1100 mm above surface of decking.
8. Fixings: Ladder: Stainless steel grade A4; Platform: Internal dome fixings.
9. Form: Fixed; fixing points on corners.
10. Material/ Finish: Mill finish aluminium.

Ω End of System

Pr_20_76_51_12

Carbon steel beams, columns, channels and tees

Products

Pr_20_76_51_12 Carbon steel beams, columns, channels and tees

1. Description: Purlins to upper new extension
2. Supplied by: Contractor's choice
3. Design: Refer to architectural and structural engineers details for further information & requirements of overall roof build-up.
4. Standard
 - 4.1. General delivery conditions: To [BS EN 10025-1](#).
5. Grade options for steel to be galvanized: To [BS EN 10025-1](#), options 2 and 5.
6. Dimensions: To [BS EN 10365](#). To [BS EN 10055](#). Refer to structural engineer information for further details.

Ω End of Product

Pr_20_85_48_11 Carbon steel lintels

Products

Pr_20_85_48_11 Carbon steel lintels

1. Manufacturer: [IG Lintels](#)
2. Contact details
 - 2.1. Address: Ballyreagh Industrial Estate
Cookstown
Co. Tyrone
BT80 9DG
 - 2.2. Telephone: [+44 \(0\)1633 486486](tel:+44(0)1633486486)
 - 2.3. Web: www.iglintels.com
 - 2.4. Email: sales@iglintels.com
3. Product reference: [Single Leaf Lintel](#)
4. Type: L10
5. Material: Galvanized steel
6. Length: As drawing
7. Other requirements: Cavity closer
8. Execution: [Pr_20_85_48/620 Installing lintels](#)

Execution

Pr_20_85_48/620 Installing lintels

1. Bedding: On mortar as used for adjacent work.
2. Support arrangement: Outer leaf.
3. Bearing length (minimum): 150 mm.
4. Joint above inserted lintel or masonry: Fully consolidate with semidry mortar to support existing structure.

Ω End of Product

Pr_20_85_48_84 Stainless steel lintels

Products

Pr_20_85_48_84 Stainless steel lintels

1. Manufacturer: [ACS Stainless Steel Fixings Ltd](#)
2. Contact details
 - 2.1. Address: Innovation Way
Cross Green
Leeds
West Yorkshire
LS9 0DR
 - 2.2. Telephone: +44 (0)113 391 8200
 - 2.3. Web: www.acsstainless.co.uk
 - 2.4. Email: nbs@acsstainless.co.uk
3. Product reference: [ACS 'C' Section Single Leaf Lintel \(C600\)](#)
4. Standard: To BS EN 845-2 and PD 6697.
5. Lintel type: Single.
6. Material finish and coating reference: Austenitic stainless steel 1.4301 (304) grade.
7. Sizes: See Elevations for S/O Opening Sizes
8. Load: Total Uniformly Distributed Load (UDL): 8.6 kN.
9. Thickness: 2 mm.
10. Lintel type: Single.
11. Execution: [Pr_20_85_48/620 Installing lintels](#)

Execution

Pr_20_85_48/620 Installing lintels

1. Bedding: On mortar as used for adjacent work.
2. Support arrangement: Outer leaf.
3. Bearing length (minimum): 150 mm.
4. Joint above inserted lintel or masonry: Fully consolidate with semidry mortar to support existing structure.

Ω End of Product

Pr_25_30_75_02 Aluminium ladder safety cages

Products

Pr_25_30_75_02 Aluminium ladder safety cages

1. Description: Safety Cages to ladders for access to upper roof levels
2. Manufacturer: Bilco
3. Material: Flat aluminium bar.
4. Finish: Powder-coated to [BS 6496](#). TBC
5. Safety cage: D-shape.
6. Diameter: To fit access ladder. Contractor to select compatible product if not from noted supplier.

Ω End of Product

Pr_25_57_06_53 Mineral wool insulation

Products

Pr_25_57_06_53 Mineral wool insulation

1. Manufacturer: [Knauf Insulation Ltd](#)
2. Contact details
 - 2.1. Address: Knauf Insulation Limited
Stafford Road
St Helens
Merseyside
WA10 3LZ
 - 2.2. Telephone: [+44 \(0\)1744 766 666](#)
 - 2.3. Web: www.knaufinsulation.co.uk
 - 2.4. Email: technical.uk@knaufinsulation.com
3. Product reference: [Knauf Insulation - Rocksilk® EWI Slab - External Wall Insulation \(Tektalan A2 Smarttec 100 mm\)](#)
4. Standard: To EN 13168:2012.
5. Thickness: 100 mm.
6. Facing: Wood wool (10 mm).
7. Edges: Bevelled.
8. Density: Wood wool: 550–750 kg/m³.
Rock mineral wool: 80–120 kg/m³.
9. Thermal conductivity (maximum): Wood wool: 0.095 W/m·K.
Rock mineral wool: 0.034 W/m·K.
10. Fire performance: REI 180 (if treated in accordance with classification Report no. 20859) and Non-Combustible Euroclass A2-s1,d0 to BS EN 13501-1.
11. Thermal resistance: 2.75 W/mK.
12. Sound absorption coefficient: 0.80
13. Noise reduction coefficient: 0.95
14. Form: Composite panel.
15. Purpose: Soffit insulation.
16. Sound absorption: Class A to BS EN ISO 11654 / ASTM-C423.
17. Reaction to fire: Non-combustible Euroclass A2-s1,d0 to BS EN 13501-1.
18. Fire resistance: REI 180 (if treated in accordance with classification report no. 20859) .
19. Size (length x width): 1000 x 600 mm.
20. Surface pattern: 2 mm wood fibre.
21. Colour: RAL 1015 (Light Ivory).
22. Accessories: 125 mm DDS Plus Concrete Screw.
23. Durability: The product will have a life equivalent to that of the structure in which it is incorporated.
24. Handling: Heraklith® Tektalan A2 Smarttec is easy to handle and install. Refer to the Installation Guide:
https://pim.knaufinsulation.com/files/download/knauf_insulation_heraklith_installation_guide-en-uk_feb23.pdf
25. Storage: Heraklith® Tektalan A2 Smarttec is supplied loose on a hood wrapped pallet and should be stored indoors at all times.

Pr_25_57_08_08 Bitumen sheets

Products

Pr_25_57_08_08 Bitumen sheets

1. Description: New Ground Floor Slab Waterproofing
2. Manufacturer: [Visqueen](#)
3. Contact details
 - 3.1. Address: Visqueen
Heanor Gate Industrial Estate
Derbyshire
Heanor
Derbyshire
United Kingdom
DE75 7RG
 - 3.2. Telephone: [+44 \(0\) 333 202 6800](tel:+44(0)3332026800)
 - 3.3. Web: www.visqueen.com
 - 3.4. Email: enquiries@visqueen.com
4. Product reference: [Visqueen Self Adhesive Membrane \(SAM\)](#)
5. Third-party certification: BBA Certificate.
6. Membrane carrier material: High density polyethylene.
7. Thickness (minimum): 1.5 mm.
8. Surface finishes
 - 8.1. Top: Smooth.
 - 8.2. Underside: Paper finish.
9. Accessories: Visqueen Zedex CPT High Performance DPC. Refer to [Pr_25_57_21_64 Polypropylene \(PP\) damp-proof courses and cavity trays](#)
10. Colours: Black top with grey backing paper on bottom.
11. Primer: As recommended by specialist installer

Pr_25_57_21_64 Polypropylene (PP) damp-proof courses and cavity trays

1. Description: New Ground Floor Slab Waterproofing
2. Manufacturer: [Visqueen](#)
3. Contact details
 - 3.1. Address: Visqueen
Heanor Gate Industrial Estate
Derbyshire
Heanor
Derbyshire
United Kingdom
DE75 7RG
 - 3.2. Telephone: [+44 \(0\) 333 202 6800](tel:+44(0)3332026800)
 - 3.3. Web: www.visqueen.com
 - 3.4. Email: enquiries@visqueen.com
4. Product reference: [Visqueen Zedex CPT High Performance DPC](#)
5. Material: Co-polymer thermoplastic.
6. Third party certification: British Board of Agrément certified, 94/3059 / CE Mark EN 14909.

7. Colour: Black.
8. Accessories: DPC jointing tape.
9. Length: 20 000 mm.
10. Mass: 750 g/m².
11. Joint strength: 220 N.
12. TensileStrength: 14 Mpa.
13. Elongation: 500%.
14. Reaction to fire: F Class.
15. Tensile strength MD: 17 Mpa.
16. Resistance to static loading - 20kg load: <20 kg.
17. Application temperature: In accordance with manufacturer's guidance
18. Execution: [Pr_25_57_21/630 Installing ground level dpcs](#); [Pr_25_57_21/620 Installing coping and capping dpcs](#); [Pr_25_57_21/650 Installing site-formed cavity trays](#); [Pr_25_57_21/655 Installing stepped dpcs in external walls](#); [Pr_25_57_21/660 Site-formed dpc junctions and cavity tray cloaks](#); [Pr_25_57_21/665 Installing jamb dpcs at openings](#); [Pr_25_57_21/670 Installing jamb dpcs to built-in timber-frames](#); [Pr_25_57_21/605 Installing vertical dpcs generally](#)

Execution

Pr_25_57_21/605 Installing vertical dpcs generally

1. Form: In one piece wherever possible.
2. Joints: Upper part overlapping lower at least 100 mm.

Pr_25_57_21/620 Installing coping and capping dpcs

1. Placement: Bed in one operation. Maximize bond between masonry units, mortar and dpc.
2. Dpcs crossing cavity: Provide rigid support to prevent sagging.

Pr_25_57_21/630 Installing ground level dpcs

1. Joint with damp-proof membrane: Continuous. Seal effectively.

Pr_25_57_21/650 Installing site-formed cavity trays

1. Requirements to prevent downward ingress of water: Refer to manufacture's recommendations
2. Profiles
 - 2.1. Joint treatment: Use continuous length wherever possible; otherwise, lap at least 100 mm and seal to produce a free-draining and watertight installation.
 - 2.2. Horizontal cavity trays: Support with cavity closer.
 - 2.3. Sloping cavity trays: Prevent sagging.
 - 2.4. Cleanliness: Free from debris and mortar droppings.

Pr_25_57_21/655 Installing stepped dpcs in external walls

1. External walls on sloping ground: Install dpcs not less than 150 mm above adjoining finished ground level.
2. External walls above pitched roof abutment: Install dpcs not less than 150 mm above adjoining finished roof level.

Pr_25_57_21/660 Site-formed dpc junctions and cavity tray cloaks

1. Three-dimensional changes in shape: Form to provide a free-draining and watertight installation. Seal laps.

Pr_25_57_21/665 Installing jamb dpcs at openings

1. Joint with cavity tray: Full underlap.
2. Joint with lintel at head: Full underlap.
3. Joint with sill: Full overlap.
4. Joint with horizontal dpc at base: Full overlap.
5. Projection into cavity (minimum): 25 mm.
6. Relationship with frame: In full contact.

Pr_25_57_21/670 Installing jamb dpcs to built-in timber-frames

1. Fixing: Securely fasten to back of frame.

Ω End of Product

Pr_25_57_21_66 Preformed cavity trays

Products

Pr_25_57_21_66 Preformed cavity trays

1. Manufacturer: [Visqueen](#)
2. Contact details
 - 2.1. Address: Visqueen
Heanor Gate Industrial Estate
Derbyshire
Heanor
Derbyshire
United Kingdom
DE75 7RG
 - 2.2. Telephone: +44 (0) 333 202 6800
 - 2.3. Web: www.visqueen.com
 - 2.4. Email: enquiries@visqueen.com
3. Product reference: [Visqueen Zedex Non-Combustible Flexi Preformed Units \(External 150-200\)](#)
4. Third-party certification: BDA certificate BAW-21-203-P-A-UK, UKCA CE Mark.
5. To fit cavity width: 150-200 mm.
6. Components: Visqueen Zedex Mastic, 380 ml; Visqueen Non-Combustible Fixing Strip, 25 x 1240 mm.
7. Reaction to fire: To BS EN 13501-1:2018, A2-s1, d0.
8. Standard: To EN 14909:2012.
9. Colour: Red.
10. Execution: [Pr_25_57_21/600 Installing sill dpcs](#); [Pr_25_57_21/610 Dpc and cavity tray leading edge in facework](#); [Pr_25_57_21/640 Installing preformed cavity trays](#); [Pr_25_57_21/645 Installing preformed dpc, cavity tray junction cloaks and stop ends](#)

Execution

Pr_25_57_21/600 Installing sill dpcs

1. Form and placement: In one piece. Turn up at back when sill is in contact with inner leaf.

Pr_25_57_21/610 Dpc and cavity tray leading edge in facework

1. Treatment at face of masonry: Set back 5 mm from face of wall with recessed mortar joint to expose edge.
2. Treatment locations: Generally. At window and door heads. At ground level. To roof abutments. Under parapets.

Pr_25_57_21/640 Installing preformed cavity trays

1. Placement: Provide a free-draining and watertight installation.

Pr_25_57_21/645 Installing preformed dpc, cavity tray junction cloaks and stop ends

1. Placement: Provide a free-draining and watertight installation. Seal laps with dpcs and/ or cavity trays.

Ω End of Product

Pr_25_57_51_60 Plastics window films

Products

Pr_25_57_51_60 Plastics window films Blackout Vinyl

1. Description: Black For existing windows
2. Manufacturer: [Glass Films Europe](#)
3. Contact details
 - 3.1. Address: The Lockey Suite
Nostell Estate Yard
Wakefield
West Yorkshire
United Kingdom
WF4 1AB
 - 3.2. Telephone: [+44 \(0\)800 970 6366](tel:+44(0)8009706366)
 - 3.3. Web: www.glassfilms.eu
 - 3.4. Email: sales@glassfilms.eu
4. Product reference: [SX-1409 White Matte Sand](#)
5. Purpose: To screen roof plant and internal view from rooftop
6. Material: Vinyl.
7. Colour: White.
8. Dimensions: To be site measured. Existing windows to North upper auditorium.
9. Fire performance: To BS EN 13501-1:2018, Class B-s1, d0.
10. Light transmission: 23%.
11. Ultraviolet (UV) resistance: 4%.
12. Adhesive: Clear, pressure-sensitive.
13. Release Liner: Silicone coated.
14. Film thickness: 101 µm.
15. Verification

Ω End of Product

Pr_25_57_65_60 Plastics sheets

Products

Pr_25_57_65_60 Plastics sheets Type A

1. Description: Ground floor slab Waterproofing
2. Manufacturer: [Visqueen](#)
3. Contact details
 - 3.1. Address: Visqueen
Heanor Gate Industrial Estate
Derbyshire
Heanor
Derbyshire
United Kingdom
DE75 7RG
 - 3.2. Telephone: [+44 \(0\) 333 202 6800](tel:+4413332026800)
 - 3.3. Web: www.visqueen.com
 - 3.4. Email: enquiries@visqueen.com
4. Product reference: [Visqueen High Performance DPM](#)
5. Material: Polyethylene.
6. Purpose: Damp-proof membrane.
7. Third-party certification: British Board of Agrément (BBA) Certificate, 94/3009.
CE Mark EN 13967:2017.
8. Performance characteristics
 - 8.1. Tensile strength (minimum): 15 N/mm².
 - 8.2. Tear resistance: 333 N.
 - 8.3. Elongation to break: 400%.
 - 8.4. Water vapour resistance (minimum): 2100 MNs/g.
 - 8.5. Fire performance: F Class.
9. Physical properties
 - 9.1. Colour: Yellow
 - 9.2. Dimensions
 - 9.2.1. Thickness (minimum): 0.5 mm.
 - 9.2.2. Width (minimum): 4000 mm.
 - 9.2.3. Roll length (minimum): 12 500 mm.
10. Water tightness at 2 kPa: To BS EN 1928, Pass.
11. Ancillary components: VisqueenPro Double Sided Jointing Tape, VisqueenPro Single Sided Tape, Visqueen GR Lap Tape, Visqueen Top Hat Units, Visqueen Preformed Units, VisqueenPro Detailing Strip, Visqueen TreadGUARD 300, Visqueen TreadGUARD 1500.
12. Verification

Ω End of Product

Pr_25_71_51_33 Galvanized carbon steel profiled sheets

Products

Pr_25_71_51_33 Galvanized carbon steel profiled sheets

1. Description: Sheet Deck to upper extension
2. Manufacturer: Kingspan
3. Standard
 - 3.1. Sheet roofing products: *To BS EN 14782 - BS EN 485/BS EN 508*
 - 3.2. Material: Aluminium
4. Product: [WA200 Liner \(kingspan.com\)](https://www.kingspan.com)
5. Cover width: Refer to S.E drawings
6. Top surface (side 1)
7. Identification: *CE mark and label to show thickness or code, weight, type and data as required by BS EN 14782.*

Ω End of Product

Pr_25_71_63_59 Phenolic foam boards

Products

Pr_25_71_63_59 Phenolic foam boards Below Slab Insulation to New Extension

1. Manufacturer: [Kingspan Insulation](#)
2. Contact details
 - 2.1. Address: Kingspan Insulation Ltd
Pembroke
Leominster
Herefordshire
United Kingdom
HR6 9LA
 - 2.2. Telephone: +44 (0)1544 388601
 - 2.3. Web: <https://www.kingspan.com/gb/en-gb>
 - 2.4. Email: info@kingspaninsulation.co.uk
3. Product reference: [Kingspan Kooltherm K103 Floorboard \(Kingspan Kooltherm K103 Floorboard - 80 mm\)](#)
4. Standard: To BS EN 13166.
5. Third party product certification: British Board of Agrément (BBA) certification.
6. Fire performance: Euroclass RtF C-s2,d0 to BS EN 13501-1: 2018.
7. Thermal conductivity (maximum): 0.019 W/m·K.
8. Cross section: Uniform thickness.
9. Thickness: 80 mm.
10. Face size (length x width): 2400 x 1200 mm.
11. Compressive strength (minimum) at 10% compression: 120 kPa.
12. Recycled content: 0% (minimum) to BS EN ISO 14021.
13. Edges: Square.
14. Facing: Glass tissue based facing.
15. Core: Rigid thermoset fibre-free phenolic insulant.

Ω End of Product

Pr_25_80_80_79 Sleeved mineral wool cavity barriers

Products

Pr_25_80_80_79 Sleeved mineral wool cavity barriers

1. Manufacturer: Contractor's choice
2. Third-party certification: British Board of Agrément (BBA)-certified.
3. Cavity barriers
4. Size: 100 x 65 mm.
5. Residual cavity width: 50 mm.
6. Fire performance: Non-combustible
7. Verification
 - 7.1. Submittals: *Third-party certification in respect of fire performance.*
Manufacturer's certification.

Ω End of Product

Pr_25_80_80_96

Wired mineral wool batt flexible cavity barriers

Products

Pr_25_57_06/310 Insulation products generally

1. Third-party product certification: Accreditation by the United Kingdom Accreditation Service (UKAS).
2. Certified effective life (minimum): 20 years.
3. Verification
 - 3.1. Submittals: Manufacturer's certification.
 - 3.2. Timing: Before commencement of installation.

Pr_25_80_80_96 Wired mineral wool batt flexible cavity barriers

1. General requirements: [Pr_25_57_06/310 Insulation products generally](#)
2. Manufacturer: Contractor's choice
3. Wool type: Glass.
4. Density: 80 kg/m³
5. Thickness (minimum): 100 mm
6. Facing: Foil to one side.
7. Fire performance: Reaction to fire classification of Class A2 to BS EN 13501-1
8. Sound insulation rating: Not required
9. Recycled content: 80% (minimum) to [BS EN ISO 14021](#).

Ω End of Product

Pr_30_59_36_01 Access panel - Family Room

Products

Pr_30_59_36_01 Access panel - Family Room Type A

1. Description: Access panel to Family Room 00.58
2. Manufacturer: [Profab Access Ltd](#)
3. Contact details
 - 3.1. Address: Innovation Drive
Wolverhampton
West Midlands
United Kingdom
WV9 5GA
 - 3.2. Telephone: [+44 \(0\)1827 718222](tel:+441827718222)
 - 3.3. Web: www.profabaccess.com
 - 3.4. Email: enquiries@profabaccess.com
4. Product reference: [PRIMA 1000 Series Non Fire Rated Metal Access Panel](#)
5. Position: Wall mounted.
6. Size: 500 x 1200 mm. Special order.
7. Frame: TBC by Client
8. Panel
 - 8.1. Material: Electro-galvanised mild steel.
 - 8.2. Integral finish: Matt powder-coated.
9. Latch or lock type: TBC by Client
10. Operation: Pivot hinge.
11. Configuration: Single Door (SD).
12. FrameDepth: 34 mm.

Pr_30_59_36_01 Access panels - Roof Type B

1. Description: Access Panels Generally
2. Manufacturer: Contractor's choice
3. Fire performance
4. Position: Wall Mounted
5. Size: 300 x 300 mm.
6. Frame: Shadowline beads.
7. Panel
 - 7.1. Material: Plasterboard infill.
 - 7.2. Integral finish: Primed for site finish.
8. Latch or lock type: Tamper-proof and operated by castellated key.
9. Operation: Concealed steel hinges, outward opening.
10. Integral accessories: Intumescent sealing strips to frame.
11. Verification

Ω End of Product

Pr_30_59_36_74 Roof hatches

Products

Pr_30_59_36_74 Roof hatches

1. Description: Access Hatches for roof Maintenance.
2. Manufacturer: [Bilco UK](#)
3. Contact details
 - 3.1. Address: Pavilion 7, Fornham Business Court
Hall Farm
Fornham St. Martin
Bury St Edmunds
Suffolk
IP31 1SL
 - 3.2. Telephone: [+44 \(0\)1284 701696](tel:+44(0)1284701696)
 - 3.3. Web: www.bilcouk.co.uk
 - 3.4. Email: bilcouk@bilco.com
4. Product reference: [E-50TB LADDER ACCESS HATCH](#)
5. Format: External.
6. Door
 - 6.1. Orientation: Horizontal.
 - 6.2. Material: 2.3 mm aluminium, 75 mm polyisocyanurate insulation.
7. Operation
 - 7.1. Mode: Manual. Compression springs located within inner and outer tube.
8. Accessories: Locks. Handrails. Stainless steel hardware.
9. Dimensions: 915 x 915 mm.
10. Weight: 63 kg.

Ω End of Product

Pr_35_31_22_94 Water-based finishing coats

Products

Pr_35_31_22_94 Water-based finishing coats Paint Finishes Generally

1. Manufacturer: [Dulux Trade, brand of AkzoNobel](#)
2. Contact details
 - 2.1. Address: AkzoNobel Decorative Paints
Wexham Road
Slough
Berkshire
SL2 5DS
 - 2.2. Telephone: [+44 \(0\)333 222 7070](#)
 - 2.3. Web: www.duluxtradepaintexpert.co.uk
 - 2.4. Email: project.support@akzonobel.com
3. Product reference: [Supermatt](#)
4. Composition: PVA copolymer.
5. System code: D643 - New plaster/ plasterboard.
6. Form: Liquid.
7. Capacity: 10 L.
8. Sheen: Matt.
9. Colour: White.
10. Execution: Applying coating.
11. Execution: [Pr_35_31_22/703 Applying coating](#)

Execution

Pr_35_31_22/703 Applying coating

1. Initial coats
 - 1.1. Number of coats: Two.
 - 1.2. Thinning: In accordance with manufacturer's instructions.
 - 1.3. Application: Roller.
2. Undercoats
 - 2.1. Number of coats: One.
 - 2.2. Application: Roller.
3. Finishing coats
 - 3.1. Number of coats: Two.
 - 3.2. Application: Roller.

Ω End of Product

Pr_35_31_68_40 Hygienic Wall Cladding

Products

Pr_35_31_68_40 Hygienic Wall Cladding

1. Description: PVC Wall Cladding to 00.35 Changing Places Room.
2. Manufacturer: Altro
3. Colour: White
4. Sizes: Sheet sizes are 1220mm (4ft) by either 2500mm (8ft) or 3050mm (10ft) by 2.5mm thickness.
5. Resistance to organisms: Anti-bacterial and anti-microbial.

Ω End of Product

Pr_35_31_68_43 Intumescent protective coatings

Products

Pr_35_31_68_43 Intumescent protective coatings

1. Description: Protection to new steelwork supporting roof plant.
2. Manufacturer: [Sherwin-Williams](#)
3. Contact details
 - 3.1. Address: Tower Works
Kestor Street
Bolton
Lancashire
United Kingdom
BL2 2AL
 - 3.2. Telephone: +44 (0)1204 521771
 - 3.3. Web: industrial.sherwin-williams.com/emeai/gb/en/protective-marine.html
 - 3.4. Email: swprotectiveemeai@sherwin.com
4. Product reference: [Fire Protection FIRETEX® FX5090](#)
5. Composition: Water-based.
6. Colour: White.
7. Design: Refer to Jenson Hughes fire strategy. New structure for new roof to supporting plant areas to be protected min 60 minutes. Ref - HM2333/R2

Extract:

4.1 Structure There is no Building Regulations requirement to improve the fire resistance of existing elements of structure and they will remain as existing as part of the refurbishment. Any new elements of structure required for the refurbishment will be designed to achieve at least 60 minutes fire resistance. Structure which only serves to support the roof will not be fire resisting.

8. Execution: [Pr_35_31_68/621 Intumescent coat finish – basic](#)

Execution

Pr_35_31_68/621 Intumescent coat finish – basic

1. Locations: Non-visible areas.
2. Requirement: Reasonably smooth and even. Orange peel, other texture, minor runs and similar minor defects are acceptable.

Ω End of Product

Pr_35_31_68_52 Membrane walkway coatings

Products

Pr_35_31_68_52 Membrane walkway coatings

1. Description: Walkway / Path for roof plant access
2. Manufacturer: Contractor's choice
3. Composition: *As recommended by liquid-applied coating manufacturer.* Contractor to ensure compatible with existing roof membranes
4. Width: TBC with MEP and contractor
5. Colour: Manufacturer's Standard
6. Additives: Manufacturer's Standard

Ω End of Product

Pr_35_31_77_15 Concrete sealers

Products

Pr_35_31_77_15 Concrete sealers

1. Description: Floor Sealant to Plant
2. Manufacturer: [Fosroc International Limited](#)
3. Contact details
 - 3.1. Address: Drayton Manor Business Park
Coleshill Road
Tamworth
Staffordshire
B78 3XN
 - 3.2. Telephone: [+44 \(0\)1827 262222](tel:+44(0)1827262222)
 - 3.3. Web: www.fosroc.com
 - 3.4. Email: enquiryuk@fosroc.com
4. Product reference: [Nitoflor Lithurin E](#)
5. Composition: Sodium silicate.
6. pH: 11.3.
7. Coverage: 6 m²/L (on average).
8. Density: 1.228.
9. Solubility in water: Soluble in water.
10. Abrasion resistance: Untreated control: >100 g abraded.
Treated with Nitoflor Lithurin E: <30 g abraded.

Ω End of Product

Pr_35_31_77_25 Dustproofing sealers

Products

Pr_35_31_77_25 Dustproofing sealers

1. Description: General Dust Sealers
2. Manufacturer: [Watco UK Ltd](#)
3. Contact details
 - 3.1. Address: 195-205 Eastgate Court
Guildford
Surrey
United Kingdom
GU1 3AW
 - 3.2. Telephone: [+44 \(0\)1483 418418](tel:+44(0)1483418418)
 - 3.3. Web: www.watco.co.uk
 - 3.4. Email: sales@watco.co.uk
4. Product reference: [Universal Sealer Dustproofer](#)
5. Composition: Water-based micronised acrylic.
6. Wet film thickness (minimum): 160 microns.
7. Coverage: 30 m² per 5 L.
8. Volatile organic compound (VOC) level: 10 g/L.

Ω End of Product

Pr_35_31_77_30 Floor surface sealers

Products

Pr_35_31_77_30 Floor surface sealers

1. Description: Surface sealant to Existing Auditorium Floors
2. Manufacturer: Contractor's choice
3. Grade: Matt.
4. Colour: Clear.
5. Slip resistance – water wet (minimum): To [BS 7976-2](#), PTV of 45.
6. Execution: Existing timber floor to be made good where any damage is caused during construction. Contractor to ensure appropriate floor covering is provided throughout construction. Light sanding may be required. Contractor to allow for provisions of sanding the existing flooring. Discrete samples pf product application to be reviewed / provided prior to any wider application.

Ω End of Product

Pr_35_57_11_26 Entrance mats

Products

Pr_35_57_11_26 Entrance mats FT7

1. Manufacturer: [Forbo Flooring Systems](#)
2. Contact details
 - 2.1. Address: PO Box 1
High Holborn Road
Ripley
Derbyshire
DE5 3NT
 - 2.2. Telephone: [+44 \(0\)800 093 5258](tel:+44(0)8000935258)
 - 2.3. Web: www.forbo-flooring.co.uk
 - 2.4. Email: info.flooring.uk@forbo.com
3. Product reference: [Coral Duo](#)
4. Dimensions: 2050 mm width.
5. Material: Contains 100% polyamide BSF where 75% is Econyl® regenerated, solution-dyed polyamide yarn; Everfort® vinyl backing.
6. Colour: TBC with client
7. Thickness: 9 mm.
8. Height: 6 mm.
9. Reaction to fire (to BS EN 13501-1): Bfl-s1.
10. Slip resistance (to EN 13893): DS.
11. Personal charging (to ISO 6356): <2 kV.
12. Colour fastness rating – light (to EN ISO 105/B02): >5.
13. Total weight (to ISO 8543): Approximately 3800 g/m².
14. Pile installation weight (to ISO 8543): Approximately 670 g/m².
15. Number of tufts (to ISO 1763): Approximately 32 000 per m².
16. Adhesive: 640 Eurostar Special very low VOC emission PVC adhesive.
17. Roll length: 27.5 m.
18. Standard: To BS EN 1307.
19. Luxury rating class: LC2.
20. Level of use class: Class 33.

Ω End of Product

Pr_35_57_11_31 Flocked carpets

Products

Pr_35_57_11_31 Flocked carpets FT1

1. Manufacturer: [Forbo Flooring Systems](#)
2. Contact details
 - 2.1. Address: PO Box 1
High Holborn Road
Ripley
Derbyshire
DE5 3NT
 - 2.2. Telephone: [+44 \(0\)800 093 5258](tel:+44(0)8000935258)
 - 2.3. Web: www.forbo-flooring.co.uk
 - 2.4. Email: info.flooring.uk@forbo.com
3. Product reference: [Flotex By Tibor Reich](#)
4. Classification
 - 4.1. Standard: To BS EN 1307.
5. Level of use class: Class 33.
6. Recycled content: 0%.
7. Width: 2000 mm.
8. Colour and pattern: 980508 Tweedy Lime
9. Total thickness to ISO1765: 4.3 mm.
10. Total weight (to ISO 8543): 1.8 kg/m².
11. Dimensional stability to ISO 2551 / EN 986: < 0.2%.
12. Light fastness (to BS EN ISO 105 B02): ≥5.
13. Slip resistance to UKSRG pendulum test: Dry- Very low slip risk; Wet- low slip risk.
14. Impact sound reduction (to EN-ISO 717-2): ΔLw = ≥20 dB.
15. Sound absorption to ISO 354: 0.1.
16. Water impermeability to EN 1307 annex G: Pass.
17. Reaction to fire (EN 13501-1): Bfl-s1.
18. Slip resistance (to EN 13893): μ ≥0.30.
19. Body voltage to ISO 6356: < 2 kV.
20. Thermal resistance to EN 12667: 0.048 m² K/ W.
21. Adhesive: Eurocol 640 Eurostar Special very low VOC emission PVC adhesive.
22. Skirtings: Pr_35_90_43_98
23. Stair nosings: As required on drawings See Ss_35_90)43_98

Pr_35_57_11_31 Flocked carpets FT2

1. Manufacturer: [Forbo Flooring Systems](#)
2. Contact details
 - 2.1. Address: PO Box 1
High Holborn Road
Ripley
Derbyshire
DE5 3NT

- 2.2. Telephone: [+44 \(0\)800 093 5258](tel:+4418000935258)
- 2.3. Web: www.forbo-flooring.co.uk
- 2.4. Email: info.flooring.uk@forbo.com
- 3. Product reference: [Flotex By Tibor Reich](#)
- 4. Classification
 - 4.1. Standard: To BS EN 1307.
- 5. Level of use class: Class 33.
- 6. Recycled content: 0%.
- 7. Width: 2000 mm.
- 8. Colour and pattern: 980507 Tweedy Grey
- 9. Total thickness to ISO1765: 4.3 mm.
- 10. Total weight (to ISO 8543): 1.8 kg/m².
- 11. Dimensional stability to ISO 2551 / EN 986: < 0.2%.
- 12. Light fastness (to BS EN ISO 105 B02): ≥5.
- 13. Slip resistance to UKSRG pendulum test: Dry- Very low slip risk; Wet- low slip risk.
- 14. Impact sound reduction (to EN-ISO 717-2): ΔL_w = ≥20 dB.
- 15. Sound absorption to ISO 354: 0.1.
- 16. Water impermeability to EN 1307 annex G: Pass.
- 17. Reaction to fire (EN 13501-1): Bfl-s1.
- 18. Slip resistance (to EN 13893): μ ≥0.30.
- 19. Body voltage to ISO 6356: < 2 kV.
- 20. Thermal resistance to EN 12667: 0.048 m² K/ W.
- 21. Adhesive: Eurocol 640 Eurostar Special very low VOC emission PVC adhesive.
- 22. Skirtings: Pr_35_90_43_98
- 23. Stair nosings: As required on drawings See Ss_35_90)43_98

Ω End of Product

Pr_35_57_71_60

Particle-based enhanced wet area polyvinyl chloride (PVC) sheets

Products

Pr_35_57_71_60 Particle-based enhanced wet area polyvinyl chloride (PVC) sheets FT3

1. Manufacturer: [Forbo Flooring Systems](#)
2. Contact details
 - 2.1. Address: PO Box 1
High Holborn Road
Ripley
Derbyshire
DE5 3NT
 - 2.2. Telephone: [+44 \(0\)800 093 5258](tel:+4418000935258)
 - 2.3. Web: www.forbo-flooring.co.uk
 - 2.4. Email: info.flooring.uk@forbo.com
3. Product reference: [Surestep Laguna](#)
4. Standard: Heterogeneous PVC to BS EN ISO 10582 and BS EN 13845 & 14041.
5. Use class: Class 34 Commercial very heavy, Class 43 light industrial.
6. Slip potential
 - 6.1. Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum): DIN 51130, R10; BS EN 13893, DS ≥ 0.30 ; PTV Wet slider 96: ≥ 36 .
 - 6.2. Surface roughness (Rz) (minimum): ≥ 20 .
7. Recycled content: 20%.
8. Width: 2000 mm.
9. Thickness: Total: 2.0 mm; Wear layer: 0.7 mm.
10. Colour and pattern: Laguna Lemon – 181802
11. Weight (to EN-ISO 23997): 2.75 kg/m².
12. Dimension stability (to EN-ISO 23999): $< 0.1\%$.
13. Castor chair continuous use (to EN 425): No effect.
14. Use in wet areas (to EN 13553): Yes.
15. Electrical resistance (to EN 1081 R1): $> 1 \times 10^9 \Omega$.
16. Reaction to fire (to BS EN 13501): Bfl-s1.
17. Body voltage (to BS EN 1815): < 2 kV.
18. Thermal conductivity (to BS EN 12524): 0.25 W/m·K.
19. Residual indentation (to EN-ISO 24343-1): ≤ 0.05 mm.
20. (to DIN 51097): Class B.
21. Adhesive: Eurocol 140 Euromix PU Pro.
22. Fabricated underlay: Refer to manufacturers recommendations
23. (to EN 13845 Annex C): ESb/ESf (to EN 13845 Annex D 50,000 revolutions $< 10\%$ loss. Pass.
24. Lightfastness (to ISO 105-B02): ≥ 6 .
25. Finishes: PUR pearl surface finish.
26. Flexibility (to BS EN ISO 24344): $\varnothing 10$ mm.

- 27. Resistance to chemicals (to EN ISO 26987): Very good.
- 28. Skirtings: Refer to room data sheets for skirting types.

Pr_35_57_71_60 Particle-based enhanced wet area polyvinyl chloride (PVC) sheets FT5

- 1. Manufacturer: [Forbo Flooring Systems](#)
- 2. Contact details
 - 2.1. Address: PO Box 1
High Holborn Road
Ripley
Derbyshire
DE5 3NT
 - 2.2. Telephone: [+44 \(0\)800 093 5258](tel:+4418000935258)
 - 2.3. Web: www.forbo-flooring.co.uk
 - 2.4. Email: info.flooring.uk@forbo.com
- 3. Product reference: Surestep
- 4. Standard: Heterogeneous PVC to BS EN ISO 10582 and BS EN 13845 & 14041.
- 5. Use class: Class 34 Commercial very heavy, Class 43 light industrial.
- 6. Slip potential
 - 6.1. Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum): DIN 51130, R10; BS EN 13893, DS ≥ 0.30 ; PTV Wet slider 96: ≥ 36 .
 - 6.2. Surface roughness (Rz) (minimum): ≥ 20 .
- 7. Recycled content: 20%.
- 8. Width: 2000 mm.
- 9. Thickness: Total: 2.0 mm; Wear layer: 0.7 mm.
- 10. Colour and pattern: Wood - 18832 grey oak
- 11. Weight (to EN-ISO 23997): 2.75 kg/m².
- 12. Dimension stability (to EN-ISO 23999): $< 0.1\%$.
- 13. Castor chair continuous use (to EN 425): No effect.
- 14. Use in wet areas (to EN 13553): Yes.
- 15. Electrical resistance (to EN 1081 R1): $> 1 \times 10^9 \Omega$.
- 16. Reaction to fire (to BS EN 13501): Bfl-s1.
- 17. Body voltage (to BS EN 1815): < 2 kV.
- 18. Thermal conductivity (to BS EN 12524): 0.25 W/m·K.
- 19. Residual indentation (to EN-ISO 24343-1): ≤ 0.05 mm.
- 20. (to DIN 51097): Class B.
- 21. Adhesive: Eurocol 140 Euromix PU Pro.
- 22. Fabricated underlay: Refer to manufacturers recommendations
- 23. (to EN 13845 Annex C): ESb/ESf (to EN 13845 Annex D 50,000 revolutions $< 10\%$ loss. Pass.
- 24. Lightfastness (to ISO 105-B02): ≥ 6 .
- 25. Finishes: PUR pearl surface finish.
- 26. Flexibility (to BS EN ISO 24344): $\varnothing 10$ mm.
- 27. Resistance to chemicals (to EN ISO 26987): Very good.
- 28. Skirtings: Refer to room data sheets for skirting types.

Pr_35_57_71_60 Particle-based enhanced wet area polyvinyl chloride (PVC) sheets FT6

1. Manufacturer: [Forbo Flooring Systems](#)
2. Contact details
 - 2.1. Address: PO Box 1
High Holborn Road
Ripley
Derbyshire
DE5 3NT
 - 2.2. Telephone: [+44 \(0\)800 093 5258](tel:+4418000935258)
 - 2.3. Web: www.forbo-flooring.co.uk
 - 2.4. Email: info.flooring.uk@forbo.com
3. Product reference: Surestep
4. Standard: Heterogeneous PVC to BS EN ISO 10582 and BS EN 13845 & 14041.
5. Use class: Class 34 Commercial very heavy, Class 43 light industrial.
6. Slip potential
 - 6.1. Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum): DIN 51130, R10; BS EN 13893, DS ≥ 0.30 ; PTV Wet slider 96: ≥ 36 .
 - 6.2. Surface roughness (Rz) (minimum): ≥ 20 .
7. Recycled content: 20%.
8. Width: 2000 mm.
9. Thickness: Total: 2.0 mm; Wear layer: 0.7 mm.
10. Colour and pattern: Steel 177852 Metallic Mercury
11. Weight (to EN-ISO 23997): 2.75 kg/m².
12. Dimension stability (to EN-ISO 23999): $< 0.1\%$.
13. Castor chair continuous use (to EN 425): No effect.
14. Use in wet areas (to EN 13553): Yes.
15. Electrical resistance (to EN 1081 R1): $> 1 \times 10^9 \Omega$.
16. Body voltage (to BS EN 1815): < 2 kV.
17. Thermal conductivity (to BS EN 12524): 0.25 W/m·K.
18. Residual indentation (to EN-ISO 24343-1): ≤ 0.05 mm.
19. (to DIN 51097): Class B.
20. Adhesive: Eurocol 140 Euromix PU Pro.
21. Fabricated underlay: Refer to manufacturers recommendations
22. (to EN 13845 Annex C): ESb/ESf (to EN 13845 Annex D 50,000 revolutions $< 10\%$ loss. Pass.
23. Lightfastness (to ISO 105-B02): ≥ 6 .
24. Finishes: PUR pearl surface finish.
25. Flexibility (to BS EN ISO 24344): $\varnothing 10$ mm.
26. Resistance to chemicals (to EN ISO 26987): Very good.
27. Skirtings: Refer to room data sheets for skirting types.

Ω End of Product

Pr_35_57_71_67 Vinyl Flooring

Products

Pr_35_57_71_67 Vinyl Flooring FT4

1. Manufacturer: Amtico Flooring
2. Contact details
 - 2.1. Address: Amtico UK & European Sales Solar Park Southside Solihull West Midlands B90 4SH UK
 - 2.2. Telephone: +44 (0) 121 745 0800
 - 2.3. Web: <https://www.amtico.com/>
 - 2.4. Email: info@amtico.com
3. Product reference: Finish and Type TBC by the client. Suggested product:
<https://www.amtico.com/commercial/products/dc563/>
4. Standard: To BS EN 14041 and BS EN ISO 10581.
5. Slip potential
 - 5.1. Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum):

Slip Rating R10. Enhanced slip resistance for the lifetime of the product.
6. Thickness: 2.5mm
7. LRV: 41
8. Colour and pattern: TBC by the client.
9. Reaction to fire to EN 13501: Bfl-S1
10. Skirtings: Refer to room data drawings for more information.

Ω End of Product

Pr_35_90_15_89 Thermal break connection plates

Products

Pr_35_90_15_89 Thermal break connection plates

1. Description: Thermal Breaks to Canopy
2. Manufacturer: Schock
3. Material:
4. Dimensions
 - 4.1. Length:
 - 4.2. Width:
 - 4.3. Thickness (maximum):
 - 4.4. Thickness (minimum):
5. Compressive stress (maximum):
6. Operating temperature (maximum):
7. Operating temperature (minimum):

Ω End of Product

Pr_35_90_28_72 Roof membrane perimeter trims

Products

Pr_35_90_28_72 Roof membrane perimeter trims

1. Description: Trims to New copings
2. Manufacturer: [Bauder Ltd](#)
3. Contact details
 - 3.1. Address: 70 Landseer Road
Ipswich
Suffolk
IP3 0DH
 - 3.2. Telephone: [+44 \(0\)1473 257671](tel:+44(0)1473257671)
 - 3.3. Web: www.bauder.co.uk
 - 3.4. Email: info@bauder.co.uk
4. Product reference: [Bauder GRP Trim \(Type 6\)](#)
5. Material: GRP.
6. Size: 150 x 75 mm.
7. Colour: Grey.
8. Length (maximum): 2.5 m.
9. Accessories: Internal jointing sleeves. 90° pre-formed angles.
10. Thickness:: 2.5 mm.
11. Verification

Ω End of Product

Pr_35_90_31_58 One-part floor transition strips

Products

Pr_35_90_31_58 One-part floor transition strips TP1

1. Manufacturer: [Schlüter-Systems Ltd](#)
2. Contact details
 - 2.1. Address: Units 3-5
Bardon 22
Beveridge Lane
Coalville
Leicestershire
LE67 1TE
 - 2.2. Telephone: [+44 \(0\)1530 813396](tel:+44(0)1530813396)
 - 2.3. Web: <https://eu.schluter.com/en-GB/>
 - 2.4. Email: technical@schluter.co.uk
3. Product reference: [Schlüter®-RENO-TK](#)
4. Material: Brass.
5. Finish: Anodised.
6. Colour: Brass.
7. Size: Refer to drawings. Site.

Pr_35_90_31_58 One-part floor transition strips TP2

1. Manufacturer: [Schlüter-Systems Ltd](#)
2. Contact details
 - 2.1. Address: Units 3-5
Bardon 22
Beveridge Lane
Coalville
Leicestershire
LE67 1TE
 - 2.2. Telephone: [+44 \(0\)1530 813396](tel:+44(0)1530813396)
 - 2.3. Web: <https://eu.schluter.com/en-GB/>
 - 2.4. Email: technical@schluter.co.uk
3. Product reference: [Schlüter®-RENO-T](#)
4. Form: T-shaped.
5. Material: Brass.
6. Finish: Anodised.
7. Colour: Brass.
8. Size: 14 mm, 25 mm.
9. Profile width: 25 mm.
10. Vertical leg: 9 mm.

Pr_35_90_31_58 One-part floor transition strips TP3

1. Manufacturer: [Schlüter-Systems Ltd](#)
2. Contact details

- 2.1. Address: Units 3-5
Bardon 22
Beveridge Lane
Coalville
Leicestershire
LE67 1TE
- 2.2. Telephone: +44 (0)1530 813396
- 2.3. Web: <https://eu.schluter.com/en-GB/>
- 2.4. Email: technical@schluter.co.uk
- 3. Product reference: [Schlüter®-RENO-RAMP](#)
- 4. Profile: Ramped.
- 5. Material: Aluminium.
- 6. Finish: Anodised.
- 7. Colour: Silver.
- 8. Size: As required - Site
- 9. Accessories: Schlüter-RENO-RAMP-K.

Ω End of Product

Pr_35_90_31_74 Rigid stair nosings

Products

Pr_35_90_31_74 Rigid stair nosings

1. Description: Nosings to Sound Booth Staircase
2. Manufacturer: [Gradus](#)
3. Contact details
 - 3.1. Address: Chapel Mill
Park Green
Macclesfield
Cheshire
SK11 7LZ
 - 3.2. Telephone: [+44 \(0\)1625 428922](tel:+44(0)1625428922)
 - 3.3. Web: www.gradus.com
 - 3.4. Email: imail@gradus.com
4. Product reference: [Elite Bronze Stair Edging](#)
5. Base section
 - 5.1. Material: Bronze.
 - 5.2. Finish: Polished.
6. Inserts
 - 6.1. Material: PVC.
 - 6.2. Colour: Ink.
7. Channel: ELB1140.
8. Fixing: Mechanical (screw) and adhesive fix.

Ω End of Product

Pr_35_90_43_12 Ceiling perimeter trims

Products

Pr_35_90_43_12 Ceiling perimeter trims

1. Manufacturer: Contractor's choice
2. Material: Aluminium.
3. Finish as delivered: Galvanizing to [BS EN ISO 1461](#).
4. Colour: Match exposed grid.
5. Profile: Angle.

Ω End of Product

Pr_35_90_43_22 Edge trims

Products

Pr_35_90_43_22 Edge trims

1. Description: Roof Edge trim to extension and existing refurbished copings
2. Manufacturer: [Mapei \(UK\) Ltd](#)
3. Contact details
 - 3.1. Address: Mapei House
Steel Park Road
Halesowen
West Midlands
B62 8HD
 - 3.2. Telephone: [+44 \(0\)121 508 6970](tel:+44(0)1215086970)
 - 3.3. Web: www.mapei.co.uk
 - 3.4. Email: sales@mapei.co.uk
4. Product reference: Polytrim
5. Material: Stainless steel.
6. Finish: Powder coating to [BS EN 12206-1](#).
7. Colour or pattern: Bronze
8. Profile: f60
9. Fixing: Screws.

Ω End of Product

Pr_35_90_43_98 Wood skirtings

Products

Pr_35_90_43_98 Wood skirtings

1. Description: Skirtings Generally
2. Manufacturer: Contractor's choice
3. Fire rating: *To BS EN 13501-1, Class B-s3, d2 or greater.*
4. Profile: Square Edged
5. Finished size: 150 x 19 mm.
6. Finish as delivered: Prepared and primed.
7. Execution: [Pr_35_90_43/606 Installing wood architraves, skirtings, mouldings and trims](#)

Execution

Pr_35_90_43/606 Installing wood architraves, skirtings, mouldings and trims

1. Lengths: Unjointed between angles or ends of runs.
2. Running joints: Submit proposals for location and method of jointing where unavoidable.
3. Angle joints: Mitred.
4. Conditioning regime: During delivery, storage, fixing and to handover maintain conditions to suit specified moisture contents of timber components.
5. Environmental conditions: Control ambient temperature and humidity conditions to maintain moisture content at average level specified in [BS EN 942](#), Table B.1 for the relevant service condition until completion.
6. Fixing
 - 6.1. General: Fix securely.
 - 6.2. Secret fixing: Secret nailed, first and last rows surface-nailed.
 - 6.3. Surface fixing: Face-nailed.
 - 6.4. Exposed nail heads: Neatly punch below surface.

Ω End of Product

Pr_35_90_50_62 Perpend joint plastics weepholes

Products

Pr_35_90_50_62 Perpend joint plastics weepholes

1. Manufacturer: Contractor's choice
2. Colour: To match adjoining masonry.
3. Execution: [Pr_35_90_50/600 Installing perpend joint plastics weep holes](#)

Execution

Pr_35_90_50/600 Installing perpend joint plastics weep holes

1. Placement: Through outer leaf immediately above base of cavity, at cavity trays, stepped dpcs and external openings. 75 mm above top of concrete fill at base of cavity.
2. Spacing (maximum): At not greater than 1000 mm centres and not less than two over each opening.

Ω End of Product

Pr_35_90_87_40

Perimeter insulation upstand

Products

Pr_35_90_87_40 Perimeter insulation upstand

1. Description: Perimeter insulation upstand - 50mm as specified in the 21 series detailing.
2. Manufacturer: Kingspan
3. Contact details
 - 3.1. Web: <https://www.kingspan.com/gb/en/products/insulation-boards/floor-insulation-boards/kooltherm-k103-floorboard/?s=d>
4. Product reference: K103

Ω End of Product

Pr_35_93_96_14 Ceramic tile cove skirtings

Products

Pr_35_93_96_14 Ceramic tile cove skirtings Type A

1. Description: Ceramic tile skirting to match the ceramic tiles as Pr_35_93_96_19 Type A.
2. Manufacturer: Grestec
3. Product Code : BARTON
4. Colour: To match ceramic wall tiles in room.
5. Finish: To match ceramic wall tiles in room.
6. Size: 75x200mm
7. Thickness: 9.5mm
8. Top edge: Gloss finish
9. Corners: Matching internal and external corner tiles.
10. Execution: [Pr_35_93_96/615 Fixing skirtings](#); [Pr_35_93_96/610 Fixing tiles](#)

Pr_35_93_96_14 Ceramic tile cove skirtings Type B

1. Description: Ceramic tile skirting to match the ceramic tiles as Pr_35_93_96_19 Type B.
2. Manufacturer: Grestec
3. Product Code: Thassos
4. Colour: To match ceramic wall tiles in room.
5. Finish: To match ceramic wall tiles in room.
6. Size: 50x150mm
7. Thickness: 9mm
8. Top edge: Glazed square.
9. Corners: Matching internal and external corner tiles.
10. Execution: [Pr_35_93_96/615 Fixing skirtings Type C](#); [Pr_35_93_96/610 Fixing tiles Type C](#)

Pr_35_93_96_14 Ceramic tile cove skirtings Type C

1. Description: Ceramic tile skirting to match the ceramic tiles as Pr_35_93_96_19 Type C.
2. Manufacturer: Grestec
3. Product Code:: Kakam 2.0
4. Colour: To match ceramic wall tiles in room.
5. Finish: To match ceramic wall tiles in room.
6. Size: 50x300 - Skirting
45x300 - Trim
7. Thickness: 7.5mm and 6mm
8. Top edge: Glazed square.
9. Corners: Matching internal and external corner tiles.
10. Execution: [Pr_35_93_96/615 Fixing skirtings Type C](#); [Pr_35_93_96/610 Fixing tiles Type C](#)

Execution

Pr_35_93_96/610 Fixing tiles

1. Setting out: Minimize number of cut tiles, maximize size and locate unobtrusively.

2. Tile cutting: Neat and accurate.
3. Fixing: Fully adhere to substrate.
4. Surplus bedding material in joints and on tile faces: None permitted.
5. Joints in tiling
 - 5.1. General: True to line, continuous and without steps. Horizontal, vertical and aligned round corners.
 - 5.2. Joints in adjoining floors, walls and skirtings: Align.
 - 5.3. Joint depth: Full thickness of tile.
6. Flatness and regularity of tiling
 - 6.1. Sudden irregularities: Not permitted.
 - 6.2. Deviation of surface
 - 6.2.1. Measurement: From underside of a 2 m straightedge placed anywhere on surface.
 - 6.2.2. Obstruction by tiles: None.
 - 6.2.3. Gap (maximum): 3 mm.
 - 6.3. Deviation between tile surfaces either side of any joint (maximum)
 - 6.3.1. Joints less than 6 mm wide: 1 mm.
 - 6.3.2. Joints greater than 6 mm wide: 2 mm.
7. Movement joints: Do not tile over structural movement joints.

Pr_35_93_96/610 Fixing tiles Type C

1. Setting out: Minimize number of cut tiles, maximize size and locate unobtrusively.
2. Tile cutting: Neat and accurate.
3. Fixing: Fully adhere to substrate.
4. Surplus bedding material in joints and on tile faces: None permitted.
5. Joints in tiling
 - 5.1. General: True to line, continuous and without steps. Horizontal, vertical and aligned round corners.
 - 5.2. Joints in adjoining floors, walls and skirtings: Align.
 - 5.3. Joint width:
 - 5.4. Joint depth: Full thickness of tile.
6. Flatness and regularity of tiling
 - 6.1. Sudden irregularities: Not permitted.
 - 6.2. Deviation of surface
 - 6.2.1. Measurement: From underside of a 2 m straightedge placed anywhere on surface.
 - 6.2.2. Obstruction by tiles: None.
 - 6.2.3. Gap (maximum): 3 mm.
 - 6.3. Deviation between tile surfaces either side of any joint (maximum)
 - 6.3.1. Joints less than 6 mm wide: 1 mm.
 - 6.3.2. Joints greater than 6 mm wide: 2 mm.
7. Movement joints: Do not tile over structural movement joints.
8. Special setting out
 - 8.1. Designated areas:
 - 8.2. Requirement:

Pr_35_93_96/610 Fixing tiles Type C

1. Setting out: Minimize number of cut tiles, maximize size and locate unobtrusively.
2. Tile cutting: Neat and accurate.
3. Fixing: Fully adhere to substrate.
4. Surplus bedding material in joints and on tile faces: None permitted.
5. Joints in tiling
 - 5.1. General: True to line, continuous and without steps. Horizontal, vertical and aligned round corners.
 - 5.2. Joints in adjoining floors, walls and skirtings: Align.
 - 5.3. Joint depth: Full thickness of tile.
6. Flatness and regularity of tiling
 - 6.1. Sudden irregularities: Not permitted.
 - 6.2. Deviation of surface
 - 6.2.1. Measurement: From underside of a 2 m straightedge placed anywhere on surface.
 - 6.2.2. Obstruction by tiles: None.
 - 6.2.3. Gap (maximum): 3 mm.
 - 6.3. Deviation between tile surfaces either side of any joint (maximum)
 - 6.3.1. Joints less than 6 mm wide: 1 mm.
 - 6.3.2. Joints greater than 6 mm wide: 2 mm.
7. Movement joints: Do not tile over structural movement joints.

Pr_35_93_96/615 Fixing skirtings

1. Coved tile skirtings: Bed solid to wall before laying floor tiles.
2. Sit-on tile skirtings: Bed solid to wall after laying floor tiles.

Pr_35_93_96/615 Fixing skirtings Type C

1. Coved tile skirtings: Bed solid to wall before laying floor tiles.
2. Sit-on tile skirtings: Bed solid to wall after laying floor tiles.

Pr_35_93_96/615 Fixing skirtings Type C

1. Coved tile skirtings: Bed solid to wall before laying floor tiles.
2. Sit-on tile skirtings: Bed solid to wall after laying floor tiles.

Ω End of Product

Pr_35_93_96_19 Ceramic tiles - Sanitaryware

Products

Pr_35_93_96_19 Ceramic tiles - Sanitaryware Type A

1. Description: Sanitaryware Wall Tiles and Skirting
2. Manufacturer: Grestec
3. Contact details
 - 3.1. Address: UNIT 4 – 6 MARLEY FARM BUSINESS ESTATE, HEADCORN ROAD, SMARDEN, KENT TN27 8PJ, UNITED KINGDOM
 - 3.2. Telephone: 0345 130 2241
 - 3.3. Web: <https://www.grestec.co.uk/>
 - 3.4. Email: SALES@GRESTEC.CO.UK
4. Product reference: Barton Glazed Porcelain
5. Standard: To BS 5385-1. To BS EN 14411.
6. Colour: TBC by Client.
7. Finish: Gloss finish
8. Size: 75x200mm - Main tile
75x200mm - Skirting
9. Thickness: 11.5mm
10. Slip potential
 - 10.1. Slip resistance value (SRV)/ pendulum test value (PTV) (minimum)
 - 10.1.1. Standard: To BS 7932.
 - 10.2. Surface roughness (Rz) (minimum)
 - 10.2.1. Standard: To BS 1134.

Pr_35_93_96_19 Ceramic tiles - Sanitaryware Type B

1. Description: Sanitaryware Wall Tiles
2. Manufacturer: Grestec
3. Contact details
 - 3.1. Address: UNIT 4 – 6 MARLEY FARM BUSINESS ESTATE, HEADCORN ROAD, SMARDEN, KENT TN27 8PJ, UNITED KINGDOM
 - 3.2. Telephone: 0345 130 2241
 - 3.3. Web: <https://www.grestec.co.uk/>
 - 3.4. Email: SALES@GRESTEC.CO.UK
4. Product reference: Thassos
5. Standard: To BS 5385-1. To BS EN 14411.
6. Colour: TBC by Client.
7. Finish: Gloss finish
8. Size: 75x150mm - Main Tile
9. Thickness: 9mm
10. Slip potential
 - 10.1. Slip resistance value (SRV)/ pendulum test value (PTV) (minimum)
 - 10.1.1. Standard: To BS 7932.

10.2. Surface roughness (Rz) (minimum)

10.2.1. Standard: To [BS 1134](#).

Pr_35_93_96_19 Ceramic tiles - Sanitaryware Type C

1. Description: Sanitaryware Wall Tiles and Trim
2. Manufacturer: Grestec
3. Contact details
 - 3.1. Address: UNIT 4 – 6 MARLEY FARM BUSINESS ESTATE, HEADCORN ROAD, SMARDEN, KENT TN27 8PJ, UNITED KINGDOM
 - 3.2. Telephone: [0345 130 2241](tel:03451302241)
 - 3.3. Web: <https://www.grestec.co.uk/>
 - 3.4. Email: SALES@GRETEC.CO.UK
4. Product reference: Kakam 2.0
5. Standard: To [BS 5385-1](#). To [BS EN 14411](#).
6. Colour: TBC by Client.
7. Finish: Gloss Glazed
8. Size: 20x145 on 290x300 - Main Tile
9. Thickness: 5.5mm

Ω End of Product

Pr_40_20_06_84 Shower trays & Shower Door

Products

Pr_40_20_06_84 Shower trays & Shower Door

1. Description: Shower Tray to WC/Shower Rooms BM.13 and 00.20
2. Manufacturer: Mira Showers
3. Product Reference: Mira Flight Low - Square - 800 X 800 - 2 Upstands.
 - 3.1. Product Number: 1.1697.320.WH
4. Standards: To [BS EN 14527](#).
5. Form: Square.
6. Materials
 - 6.1. Finish and colour: White
7. Size: 800mm by 800mm
8. Waste hole: Please refer to user guide specification information.
9. Products to purchase with: Mira Elevate Corner Entry - 800 X 800mm
Product Number: 2.1814.028

<https://www.mirashowers.co.uk/p/shower-enclosures/mira-elevate-corner-entry-800-x-800mm-21814028?skuld=2.1814.028>

Ω End of Product

Pr_40_20_60_02 Accessible WC Equipment Package

Products

Pr_40_20_60_02 Accessible WC Equipment Package

1. Description: Doc M Acc WC's
2. Manufacturer: [Dolphin Solutions](#)
3. Contact details
 - 3.1. Address: Southpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 3.2. Telephone: [+44 \(0\)1424 202224](tel:+44(0)1424202224)
 - 3.3. Web: www.dolphinsolutions.co.uk
 - 3.4. Email: info@dolphinsolutions.co.uk
4. Product reference: [BC5063-CC/L Roseless Doc M WC Set – Close Coupled](#)
5. Standards: In accordance with Approved Document M.
6. Form: Complete accessible WC Doc M package and fittings.
7. Arrangement: Close-coupled pack.
8. Transfer handing: Varies based on Room - please refer to 74 series setting out.
9. Material and colour
 - 9.1. WC cisterns: Concealed.
 - 9.2. WC seats: Plastics, grey.
 - 9.3. Handrails: Stainless steel.
10. Water supply fittings: Thermostatic mixer tap.
11. Materials: Stainless steel.
12. Finish: Brushed satin.
13. LRV: Contrast difference of 30 between the LRV of fixtures/fittings and surrounding surfaces as well as between floors, walls, doors and ceilings.
14. Execution: [Pr_40_20_93/622 Installing flushing WC assemblies](#)

Execution

Pr_40_20_93/622 Installing flushing WC assemblies

1. Pans
 - 1.1. Floor-mounted pans: Screw-fix and fit cover caps over screw heads. Do not use mortar or other beddings.
 - 1.2. Seat and cover: Stable when raised.
2. Cisterns
 - 2.1. Brackets
 - 2.1.1. Fixing: Secure.
 - 2.1.2. Levels: Top surfaces of brackets in a horizontal plane.
 - 2.2. Cistern-operating components: Obtain from cistern manufacturer.
 - 2.3. Float-operated valves: Match to pressure of water supply.

2.4. Overflow pipes

- 2.4.1. Fixing at cistern: With resilient washer between appliance and backnut.
- 2.4.2. Fixing generally: Fix to falls and in a location that gives visible warning of discharge.
- 2.4.3. Position: Agree on a position, where not already shown on drawings.

Ω End of Product

Pr_40_20_76_06 Baby changing units

Products

Pr_40_20_76_06 Baby changing units

1. Description: Baby changing units in Acc WC's
2. Manufacturer: [Dolphin Solutions](#)
3. Contact details
 - 3.1. Address: Southpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 3.2. Telephone: [+44 \(0\)1424 202224](tel:+44(0)1424202224)
 - 3.3. Web: www.dolphinsolutions.co.uk
 - 3.4. Email: info@dolphinsolutions.co.uk
4. Product reference: BC200EH
5. Form: Wall-mounted, fold down.
6. Material: Polypropylene
7. Finish and colour: White
8. Size (nominal): 570mm by 860mm

Ω End of Product

Pr_40_20_76_86 Toilet brush holders

Products

Pr_40_20_76_86 Toilet brush holders

1. Description: To all WC's generally
2. Manufacturer: [Dolphin Solutions](#)
3. Contact details
 - 3.1. Address: Southpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 3.2. Telephone: [+44 \(0\)1424 202224](tel:+44(0)1424202224)
 - 3.3. Web: www.dolphinsolutions.co.uk
 - 3.4. Email: info@dolphinsolutions.co.uk
4. Product reference: [BC9831 Dolphin Toilet Brush Set \(BC9831SS - Satin\)](#)
5. Form: Wall-mounted.
6. Material: Stainless steel.
7. Finish and colour: TBC by Client.
8. Height: 406 mm.
9. Diameter: 89 mm.
10. Projection: 119 mm.

Ω End of Product

Pr_40_20_76_88 Toilet roll holders

Products

Pr_40_20_76_88 Toilet roll holders

1. Manufacturer: [Dolphin Solutions](#)
2. Contact details
 - 2.1. Address: Southpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 2.2. Telephone: +44 (0)1424 202224
 - 2.3. Web: www.dolphinsolutions.co.uk
 - 2.4. Email: info@dolphinsolutions.co.uk
3. Product reference: Dolphin Stainless steel mini jumbo dispenser BC925.
4. Finish and colour: TBC by Client.

Ω End of Product

Pr_40_20_76_90 Towel rails

Products

Pr_40_20_76_90 Towel rails

1. Description: Towel Rails in Shower rooms
2. Manufacturer: [Dolphin Solutions](#)
3. Contact details
 - 3.1. Address: Southpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 3.2. Telephone: [+44 \(0\)1424 202224](tel:+44(0)1424202224)
 - 3.3. Web: www.dolphinsolutions.co.uk
 - 3.4. Email: info@dolphinsolutions.co.uk
4. Product reference: [BC728 Dolphin Towel Rail](#)
5. Form: Wall mounted.
6. Materials: Stainless steel, grade 1.4301 (304).
7. Finish and colour: Colour TBC by Client.
8. Integral accessories: Anti-theft mounting.
9. Dimensions: 650 x 108 mm.
10. Wall plate: 48 mm.
11. Verification

Ω End of Product

Pr_40_20_76_94 Vanity units

Products

Pr_40_20_76_94 Vanity units

1. Description: Counter top vanity unit
2. Manufacturer: [Bushboard Washroom Systems Ltd](#)
3. Contact details
 - 3.1. Address: Unit 1400
1st Floor Montagu Court
Kettering Venture Park
Kettering
Northamptonshire
NN15 6XR
 - 3.2. Telephone: [+44 \(0\)1536 533620](tel:+441536533620)
 - 3.3. Web: www.bushboard-washrooms.co.uk
 - 3.4. Email: washrooms@bushboard-washrooms.co.uk
4. Product reference: Product Code: Cantilever_Vanity
5. Form: Floor-mounted with 115mm upstand. TBC by supplier.
6. Materials
 - 6.1. Carcass
 - 6.1.1. Frame and panels: TBC
 - 6.1.2. Finish and colour: TBC by Client
 - 6.2. Worktop
 - 6.2.1. Material: Vanity Top - SGL
 - 6.2.2. Finish and colour: TBC by Client

Ω End of Product

Pr_40_20_87_75 Shower fittings package

Products

Pr_40_20_87_75 Shower fittings package

1. Description: Doc M Shower Pack to Room 00.47
2. Manufacturer: [Dolphin Solutions](#)
3. Contact details
 - 3.1. Address: Southpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 3.2. Telephone: [+44 \(0\)1424 202224](tel:+44(0)1424202224)
 - 3.3. Web: www.dolphinsolutions.co.uk
 - 3.4. Email: info@dolphinsolutions.co.uk
4. Product reference: BC5063-SHC_A
5. Product Information: <https://www.dolphinsolutions.co.uk/product/roseless-doc-m-shower-set-concealed/>
6. Materials

Ω End of Product

Pr_40_20_87_76 Dual Mixer Shower

Products

Pr_40_20_87_76 Dual Mixer Shower

1. Description: Dual Shower head for BM.13 and 00.20 Shower Room.
2. Manufacturer: Mira Showers
3. Contact details
 - 3.1. Telephone: 0800 001 4040
 - 3.2. Web: <https://www.mirashowers.co.uk/>
4. Product reference: Mira Opero Dual Mixer Shower
5. Standards: To [BS 6340-4](#) or to [BS EN 1112](#).
6. Approvals: Water Regulations Approval Scheme (WRAS)-approved.
7. Form: Multi-function fixed head.
8. Materials
 - 8.1. Finish and colour: Chrome or Brushed Nickel - TBC by Client
9. Size: 350mm and 110mm diameter.
10. Integral accessories: Please refer to product data sheet.

Ω End of Product

Pr_40_20_87_85 Sink thermostatic water supply sets

Products

Pr_40_20_87_85 Sink thermostatic water supply sets

1. Description: Taps to Kitchenettes
2. Manufacturer: Howdens to provide
3. Contact details
 - 3.1. Telephone: 01928 212 000
 - 3.2. Web: www.howdens.com
 - 3.3. Email: runcorn@howdens.com
4. Product reference: TAP3545 Rienza Chrome Swan Neck Monobloc Tap
5. Standards: To [BS EN 200](#).
6. Approvals: Water Regulations Approval Scheme (WRAS)-approved.
7. Form: Mixer taps.
8. Materials
 - 8.1. Body: Brass.
 - 8.2. Finish and colour: Chrome-plated.

Ω End of Product

Pr_40_20_87_98 Washbasin taps

Products

Pr_40_20_87_98 Washbasin taps

1. Description: Mixer Tap in Female and Male WC's
2. Manufacturer: [Dolphin Solutions](#)
3. Contact details
 - 3.1. Address: Southpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 3.2. Telephone: [+44 \(0\)1424 202224](tel:+44(0)1424202224)
 - 3.3. Web: www.dolphinsolutions.co.uk
 - 3.4. Email: info@dolphinsolutions.co.uk
4. Product reference: DB1600
5. Standards: To [BS EN 200](#).
6. Approvals: Water Regulations Approval Scheme (WRAS)-approved.
7. Form: Manual mixer tap.
8. Materials
 - 8.1. Body: Stainless Steel
 - 8.2. Finish and colour: TBC by Client. Consistent with other Sanitaryware product finishes e.g. waste bin, coat hooks etc.
9. Flow rate (maximum): Max. 3.5 litres/minute (1.33 and 1.89 litres/minute available) between 0 and 6.0 bar
10. Water supply temperature (maximum): User-controlled.

Ω End of Product

Pr_40_20_93_74 Urinal dividers

Products

Pr_40_20_93_74 Urinal dividers

1. Description: Arezzo Fluted Glass Matt Black Framed Urinal Partition.
2. Type: Fluted Glass Framed Urinal Partition with 200mm Support Leg.
3. Manufacturer: Through various websites e.g. Victoria Plumbing
4. Contact details
 - 4.1. Web: <https://www.covertoilet.com/arezzo-fluted-glass-matt-black-framed-urinal-partition/>
<https://www.victorianplumbing.co.uk/>
5. Product reference: Arezzo Fluted Glass Matt Black Framed Urinal Partition
6. Material
 - 6.1. Body: Metal / 5mm Fluted toughened safety glass
 - 6.2. Finish: Matt Black or Chrome - Client TBC
7. Size:
 - Height: 1600mm
 - Width: 485-500mm
8. Standards: BS EN 14428 Shower Enclosures.

Ω End of Product

Pr_40_20_93_78 Urinal cisterns

Products

Pr_40_20_93_78 Urinal cisterns

1. Description: Male WC's BM.11
2. Manufacturer: Dolphin Solutions
3. Contact details
 - 3.1. Address: Southpoint Compass Park Junction Road Bodiam East Sussex TN32 5BS
 - 3.2. Telephone: +44 (0)1424 202224
 - 3.3. Web: www.dolphinsolutions.co.uk
 - 3.4. Email: info@dolphinsolutions.co.uk
4. Product reference: DC2010
5. Approvals: Water Regulations Approval Scheme (WRAS)-approved.
6. Standard: To [BS 1876](#).
7. Form: Concealed auto cistern and cover.
8. Operating control: Compatible Dolphin DB620 Infrared urinal flush valve kit should be ordered separately.
9. Materials
 - 9.1. Body: Porcelain
 - 9.2. Finish and colour: Gloss White Finish
10. Integral accessories: Required products for the Urinals to be purchased:
 - DB620 - Satin brushed Chrome Plated Dolphin Infrared Urinal Flush Valve Sensor
 - 26089 - Syphon
 - 26090 - Vacuum breaker to prevent backflow.

Ω End of Product

Pr_40_20_93_94 WC Pan and Flush Plate

Products

Pr_40_20_93_94 WC Pan and Flush Plate

1. Description: All WC and Flush plates specified in BM.10, BM.11, BM.13, 00.20.
2. Manufacturer: [Dolphin Solutions](#)
3. Contact details
 - 3.1. Address: Southpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 3.2. Telephone: [+44 \(0\)1424 202224](tel:+44(0)1424202224)
 - 3.3. Web: www.dolphinsolutions.co.uk
 - 3.4. Email: info@dolphinsolutions.co.uk
4. Product reference: [DC2005 Dolphin Wall Mounted WC Pan and Seat](#)
DB5550.P Dolphin Flush Plate
5. Standard: To BS EN 997, Class 2.
6. Form: Wall-mounted, siphonic.
7. Pan height: 340 mm.
8. Materials
 - 8.1. Body: Vitreous china.
 - 8.2. Finish and colour: White.
9. Water supply, outlet and seat holes
 - 9.1. Seat holes: Standard pattern.
10. Integral accessories: Cistern compatibility - DB5511.P / DB5511.M / DB5511.E / DB5521.P / DB5521.M
11. Flush Plate Product: DB5550.P
 - 11.1. Product Name: Dolphin Blue Pneumatic Flush Plate
 - 11.2. Colour and Finish: Ceramic Colour TBC - In line with same colour proposed as waste bins / Sanitary disposal bins and Coat Hooks.
 - 11.3. Requirements: Opening in the final wall finish should be cut to the size of the flush plate, not to the size of the cistern opening.
12. Projection: 540 mm.
13. Width: 370 mm.
14. Flush volume: 4.5/3.
15. Execution: [Pr_40_20_93/622 Installing flushing WC assemblies](#)

Execution

Pr_40_20_93/622 Installing flushing WC assemblies

1. Pans
 - 1.1. Floor-mounted pans: Screw-fix and fit cover caps over screw heads. Do not use mortar or other beddings.
 - 1.2. Seat and cover: Stable when raised.

2. Cisterns

2.1. Brackets

2.1.1. Fixing: Secure.

2.1.2. Levels: Top surfaces of brackets in a horizontal plane.

2.2. Cistern-operating components: Obtain from cistern manufacturer.

2.3. Float-operated valves: Match to pressure of water supply.

2.4. Overflow pipes

2.4.1. Fixing at cistern: With resilient washer between appliance and backnut.

2.4.2. Fixing generally: Fix to falls and in a location that gives visible warning of discharge.

2.4.3. Position: Agree on a position, where not already shown on drawings.

Ω End of Product

Pr_40_20_96_97 Wash hand basin

Products

Pr_40_20_96_97 Wash hand basin

1. Description: Basin to Ladies and Male WC's in the Basement.
2. Manufacturer: Arezzo Stone White Terrazzo Effect Round Counter Top Basin - 405mm Diameter
3. Product Website: <https://www.victorianplumbing.co.uk/arezzo-stone-white-terrazzo-effect-round-counter-top-basin-405mm-diameter?sku=AZ068WT&preSelected=true>
4. Approvals: Water Regulations Approval Scheme (WRAS)-approved.
5. Form: Round Counter Top Basin - 405mm Diameter
6. Material and finish:
 - Basin Colour/Finish: White Terrazzo Effect
 - Basin Material: Concrete Stone
7. Dimensions:
 - Diameter: 405mm
 - Height: 120mm
 - Drain Diameter: 45mm

Ω End of Product

Pr_40_30_20_64 Privacy curtains

Products

Pr_40_30_20_64 Privacy curtains

1. Manufacturer: [Astor Bannerman](#)
2. Contact details
 - 2.1. Address: The Elephant Works
Andoversford Link
Cheltenham
GL54 4LB
 - 2.2. Telephone: [+44 \(0\)1242820820](tel:+44(0)1242820820)
 - 2.3. Web: www.astorbannerman.co.uk
 - 2.4. Email: sales@astorbannerman.co.uk
3. Product reference: [Privacy Screen for Changing Places & Care \(Wall Mounted\)](#), or similar approved
4. Materials
 - 4.1. Supports
 - 4.1.1. Support type: Retractable frame with wheels.
 - 4.2. Curtains
 - 4.2.1. Colour and pattern: to be confirmed by client
 - 4.2.2. Width: 2000 mm.
 - 4.2.3. Drop: 1900 mm.
5. Fire performance: EU and UK: To EN 13501-1: 2018: Euroclass B s1,d0. US: ASTM E 84 - Class A.

Ω End of Product

Pr_40_30_29_72 **Retractable seats**

Products

Pr_40_30_29_72 Retractable seats A

1. Description: Retractable / Moveable Seating to Mezzanine
2. Manufacturer: Audience Systems
3. Unit Type: TX-VPO (Traveling Power Operated Unit)
4. Form: Floor-fixed.
5. Telescopic platform
 - 5.1. Unit width: Refer to Audience Systems Drawings for Design & Setting out information.
 - 5.2. Number of rows: 6
 - 5.3. Row depth: 820mm
 - 5.4. Row rise: 340mm
 - 5.5. Seat spacing (lateral): Seat Centres - 480mm
6. Seats and backs
 - 6.1. Seat Type: Manual Fold Down
 - 6.2. Material: Fabric - Camera Xtreme
 - 6.3. Colour: To be confirmed
7. Frames
 - 7.1. Material: 628 Plastic Black
8. Integral accessories: Row Letter - refer to Audience Systems Layouts - Total Seats 72

Pr_40_30_29_72 Retractable seats B

1. Description: Retractable / Moveable Seating to Main Hall
2. Manufacturer: Audience Systems
3. Unit Type: TX-VPO (Traveling Power Operated Unit)
4. Form: Floor-fixed.
5. Telescopic platform
 - 5.1. Unit width: Refer to Audience Systems Drawings for Design & Setting out information.
 - 5.2. Number of rows: 7 Seating rows on 6 platforms
 - 5.3. Row depth: 850mm
 - 5.4. Row rise: 260mm
 - 5.5. Seat spacing (lateral): Seat Centres - 480mm
6. Seats and backs
 - 6.1. Seat Type: Manual Fold Down & 1 Removeable Row 1 Riser Fixed
 - 6.2. Material: Fabric - Camera Xtreme
 - 6.3. Colour: To be confirmed
7. Frames
 - 7.1. Material: 628 Plastic Black
8. Integral accessories: Row Letter - refer to Audience Systems Layouts - Total Seats 178

Pr_40_30_29_72 Retractable seats C

1. Description: Loading Trolleys for moveable seating

2. **Manufacturer:** Audience Systems
3. **Form:** Demountable and portable - Refer to Audience systems layouts for information on portable trolleys.

Ω End of Product

Pr_40_30_30_18 Countertops

Products

Pr_40_30_30_18 Countertops

1. Description: To Bar & Kitchenettes
2. Manufacturer: Howdens
3. Product reference: WHT8360 Calacatta Marble Effect Square Edged Worktop
4. Material: Chipboard core with laminate surface.
5. Dimensions
 - 5.1. Plan size: refer to drawings
 - 5.2. Thickness: 38 mm.
6. Colour: White Marble Effect
7. Execution: [Pr_40_30_30/611 Installing worktops and countertops](#)

Execution

Pr_40_30_30/611 Installing worktops and countertops

1. General criteria: Fitted to be stable, secure and level, with no unplanned gaps between adjacent units, and between units and building fabric.
2. Supports: base units, battens off existing walls.

Ω End of Product

Pr_40_30_53_96

Wall mirrors - Above Vanity Unit

Products

Pr_40_30_53_96 Wall mirrors - Above Vanity Unit

1. Description: Mirrors above WHB and Vanity Unit. Please refer to sanitaryware schedule.
2. Manufacturer: Recommended CALDO TRAMONTO.
3. Product reference: CALDO TRAMONTO 600X800mm Rectangle Mirror
4. Finish: Colour TBC by Client

Pr_40_30_53_96 Full Wall mirror Type A

1. Description: Full length mirrors. Please refer to sanitaryware schedule.
2. Manufacturer: Recommended CALDO TRAMONTO Contractor's choice
3. Product reference: CALDO TRAMONTO 800X400mm Oblong Mirror
4. Colour and Finish: Colour TBC by Client.

Ω End of Product

Pr_40_30_78_15 Clothes hooks

Products

Pr_40_30_78_15 Clothes hooks

1. Description: Clothes Hook in all Sanitaryware rooms
2. Manufacturer: [Dolphin Solutions](#)
3. Contact details
 - 3.1. Address: Southpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 3.2. Telephone: [+44 \(0\)1424 202224](tel:+44(0)1424202224)
 - 3.3. Web: www.dolphinsolutions.co.uk
 - 3.4. Email: info@dolphinsolutions.co.uk
4. Product reference: [BC402 Dolphin Stainless Steel Coat Hook](#)
5. Form: Wall mounted individual coat hooks.
6. Material: Stainless steel.
7. Colour: Ceramic finish - TBC by Client. To match waste bins and sanitary disposal bins colour finish.
8. Diameter: 35 mm.
9. Projection: 42 mm.

Ω End of Product

Pr_40_50_07_76 Sanitary towel disposal bins

Products

Pr_40_50_07_76 Sanitary towel disposal bins

1. Description: To Female WC's and Acc WC's
2. Manufacturer: [Dolphin Solutions](#)
3. Contact details
 - 3.1. Address: Southpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 3.2. Telephone: [+44 \(0\)1424 202224](tel:+44(0)1424202224)
 - 3.3. Web: www.dolphinsolutions.co.uk
 - 3.4. Email: info@dolphinsolutions.co.uk
4. Product reference: BC984 Dolphin Sanitary Bin
5. Form: Floor standing
6. Material: Stainless steel.
7. Finish and colour: Ceramic Coating - Colour TBC by Client
8. Size: Height 617mm, Width 158mm, Projection 245mm

Ω End of Product

Pr_40_50_07_96 Waste bins

Products

Pr_40_50_07_96 Waste bins

1. Description: Waste Bin for Female, Male WC's and Acc WC as Nappy Disposal Bin
2. Manufacturer: [Dolphin Solutions](#)
3. Contact details
 - 3.1. Address: Southpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 3.2. Telephone: [+44 \(0\)1424 202224](tel:+44(0)1424202224)
 - 3.3. Web: www.dolphinsolutions.co.uk
 - 3.4. Email: info@dolphinsolutions.co.uk
4. Product reference: [BC130 Dolphin Stainless Steel Waste Bin](#)
5. Form: Freestanding, open rim.
6. Materials: Stainless steel.
7. Finish and colour: Ceramic colour TBC - Consistent colour choice with coat hoots, sanitary bin and WC flush plate.
8. Size: 650 x 355 mm.
9. Capacity: 30 L.
10. Projection: 159 mm.
11. Form: Freestanding.

Ω End of Product

Pr_40_70_22_62 Paper towel dispensers

Products

Pr_40_70_22_62 Paper towel dispensers

1. Description: To changing rooms. Refer to Sanitaryware schedule and 74 series drawings.
2. Manufacturer: [Dolphin Solutions](#)
3. Contact details
 - 3.1. Address: Southpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 3.2. Telephone: [+44 \(0\)1424 202224](tel:+44(0)1424202224)
 - 3.3. Web: www.dolphinsolutions.co.uk
 - 3.4. Email: info@dolphinsolutions.co.uk
4. Product reference: [BC928 Dolphin Maxi Paper Towel Dispenser](#)
5. Form: Wall mounted.
6. Towels
 - 6.1. Towel type: Folded.
 - 6.2. Width: 280 mm.
7. Materials
 - 7.1. Body: Stainless steel (type 304).
 - 7.2. Finish and colour: TBC by Client. In line with other sanitaryware items e.g. waste bin, coat hooks, taps finish.
8. Operation: Pull out.
9. Dimensions: 370 x 280 x 102 mm.

Ω End of Product

Pr_40_70_22_81 Soap dispensers

Products

Pr_40_70_22_81 Soap dispensers

1. Description: To appropriate Sanitaryware locations - refer to 74 series and sanitaryware schedule.
2. Manufacturer: [Dolphin Solutions](#)
3. Contact details
 - 3.1. Address: Southpoint
Compass Park
Junction Road
Bodiam
East Sussex
TN32 5BS
 - 3.2. Telephone: [+44 \(0\)1424 202224](tel:+44(0)1424202224)
 - 3.3. Web: www.dolphinsolutions.co.uk
 - 3.4. Email: info@dolphinsolutions.co.uk
4. Product reference: [BCL632 Dolphin Panel Mounted Infrared Soap Dispenser](#)
5. Form: Wall mounted.
6. Materials
 - 6.1. Finish and colour: Ceramic coating - TBC by Client in line with other sanitaryware finishes
e.g. waste bin, taps coat hooks etc.
7. Operation: Automatic.
8. Soap container: 1000 ml.
9. Power supply: 9 V transformer.
10. Dimensions: 120 x 28 mm.

Ω End of Product

Pr_40_70_62_37 Hand dryers

Products

Pr_40_70_62_37 Hand dryers

1. Description: To all WC#s generally
2. Manufacturer: [Dyson](#)
3. Contact details
 - 3.1. Address: Tetbury Hill
Malmesbury
Wiltshire
SN16 0RP
 - 3.2. Telephone: [08003457788](tel:08003457788)
 - 3.3. Web: <https://www.dyson.co.uk/commercial/overview/architects-designers>
 - 3.4. Email: specification@dyson.com
4. Product reference: [Dyson Airblade™ V Hand Dryer \(HU02\)](#)
5. Form: High velocity air through HEPA filter.
6. Operation: Automatic.
7. Timer: 12-second drying time.
8. Electrical supply
 - 8.1. Power rating: 1.0 kW (1000 W).
 - 8.2. Rated operational voltage (Ue): 220–240 V a.c.
 - 8.3. Frequency: 50–60 Hz.
9. Body
 - 9.1. Material: Polycarbonate.
 - 9.2. Finish: Polished.
 - 9.3. Colour: Sprayed nickel.
 - 9.4. Ingress protection (minimum): IP24.
 - 9.5. Dimensions: 394 x 234 x 100 mm.
10. Noise level at 1 m (maximum): 79 dB.
11. Weight: 2.9 kg.

Ω End of Product

Pr_40_70_75_75 Safety access anchor devices

Products

Pr_40_70_75_75 Safety access anchor devices

1. Description: Portable Roof Mansafe Anchor
2. Manufacturer: Weightanka Portable Deadweight Anchor
3. Third-party certification: Provide Certification.
4. Anchor type: Portable
5. Ancillary equipment: Manufacturers' Standard
6. Verification
 - 6.1. Submittals: *Manufacturer's certification. Drawings, schedules, technical information, calculations and manufacturer's literature.*
 - 6.2. Timing: *Before placement of orders.*

Ω End of Product

Pr_65_80_47_04 Assisted transfer hoists

Products

Pr_65_80_47_04 Assisted transfer hoists

1. Manufacturer: [Astor Bannerman](#)
2. Contact details
 - 2.1. Address: The Elephant Works
Andoversford Link
Cheltenham
GL54 4LB
 - 2.2. Telephone: [+44 \(0\)1242820820](tel:+44(0)1242820820)
 - 2.3. Web: www.astorbannerman.co.uk
 - 2.4. Email: sales@astorbannerman.co.uk
3. Product reference: [Astor OT200 Ceiling Track Hoist](#) , or similar approved
4. Form: Ceiling-mounted track hoist.
5. Cradle or sling
 - 5.1. Hoist fittings for slings: Two point, four hook spreader bar for loop slings.
6. Safe working load (maximum): 250 kg.
7. Integral accessories: Handset.
8. Electrical power: Mains.
9. Accessories: To Manufacturers recommendations
10. Ceiling track: H (XY) track.
11. Ingress protection (IP) rating: IP54.
12. Voltage: 24 V d.c.
13. Verification

Ω End of Product

Pr_65_80_47_95 Vertical lifting platforms

Products

Pr_65_80_47_95 Vertical lifting platforms Type A

1. Description: Front of House Lift
2. Manufacturer: [Stannah Lifts](#)
3. Contact details
 - 3.1. Address: Watt Close
Andover
Hampshire
United Kingdom
SP10 3SD
 - 3.2. Telephone: [+44 \(0\)1264 343777](tel:+44(0)1264343777)
 - 3.3. Web: www.stannahlifts.co.uk
 - 3.4. Email: contact@stannah.co.uk
4. Product reference: [Stannah Midilift PL vertical platform lift \(Aluminium structure, 1025 x 1425 mm platform\)](#)
5. Standard: To BS EN 81-41.
6. Rated load (minimum): 400 kg.
7. Drive type: Screw and nut.
8. Carriage type: Deluxe.
9. Carrier
 - 9.1. Frame material: Aluminium.
 - 9.2. Frame finish: TBC by Client - Supplier to provide options.
 - 9.3. Frame colour: TBC by Client - Supplier to provide options.
10. Doors
 - 10.1. Arrangement: Through.
 - 10.2. Type: Full height automatic hinged swing door.
 - 10.3. Clear opening width (minimum): 850 mm.
 - 10.4. Frame material: Aluminium.
 - 10.5. Frame finish: TBC by Client - Supplier to provide options.
 - 10.6. Frame colour: TBC by Client - Supplier to provide options.
 - 10.7. Infill material: TBC by Client - Supplier to provide options.
 - 10.8. Infill finish: TBC by Client - Supplier to provide options.
 - 10.9. Infill colour: TBC by Client - Supplier to provide options.
11. Carrier floor
 - 11.1. Dimensions
 - 11.1.1. Width (minimum): 1025 mm.
 - 11.1.2. Depth (minimum): 1425 mm.
 - 11.2. Material: As colour.
 - 11.3. Colour: TBC by Client - Supplier to provide options.
12. Electrical supply: 230 V, 50/ 60 Hz single-phase supply 2.2 kW rated power, 8.5 A rated running current.
13. Control device type: TBC by Client - Supplier to provide options.

14. **Control features:** Audible and visual overload device with acoustic alarm, emergency stop button and emergency lowering device.
15. **Third party certification::** UKCA mark, 2006/42/EC Machinery Directive.
16. **Aperture dimensions (w x d):** 1490 x 1545 mm.
17. **Headroom:** 2200 mm (for 2 metre full-height door).
18. **Pit depth:** 50 mm.
19. **Height:** Door: 2000 mm.
20. **Design:** Design based on Stannah Lifts Products - Lifts to be reviewed prior to order. Site conditions to be verified with chosen lift manufacturer.
21. **Doors**
 - 21.1. **Arrangement:** Through.

Pr_65_80_47_95 Vertical lifting platforms Type B

1. **Description:** Back of House Lift
2. **Manufacturer:** [Stannah Lifts](#)
3. **Contact details**
 - 3.1. **Address:** Watt Close
Andover
Hampshire
United Kingdom
SP10 3SD
 - 3.2. **Telephone:** [+44 \(0\)1264 343777](tel:+441264343777)
 - 3.3. **Web:** www.stannahlifts.co.uk
 - 3.4. **Email:** contact@stannah.co.uk
4. **Product reference:** [Stannah Lowriser 2 open platform lift 2m \(900 x 1460 mm\)](#)
5. **Standard:** To BS 6440:2011, BS 8300-1:2018 and BS 8300-2:2018.
6. **Rated load (minimum):** 300 kg.
7. **Drive type:** Hydraulic.
8. **Enclosure**
 - 8.1. **Frame material:** Steel and aluminium.
 - 8.2. **Frame finish:** Powder-coated.
 - 8.3. **Frame colour:** BS22B15 Grey White. TBC by Client on frame finish.
 - 8.4. **Infill material:** TBC by supplier.
 - 8.5. **Infill finish:** Powder-coated, to match frame. TBC by Client on frame finish.
 - 8.6. **Infill colour:** BS22B15 Grey White. TBC by Client.
 - 8.7. **Gate leaves**
 - 8.7.1. **Operation:** Manual interlocked upper landing and travelling lower gate.
 - 8.7.2. **Clear opening width (minimum):** 800 mm.
 - 8.7.3. **Frame material:** Steel and aluminium.
 - 8.7.4. **Frame finish:** TBC by Client on frame finish.
 - 8.7.5. **Frame colour:** TBC by Client on colour preference.
 - 8.7.6. **Infill material:** TBC
 - 8.7.7. **Infill finish:** TBC
 - 8.7.8. **Infill colour:** TBC
9. **Carrier floor**
 - 9.1. **Dimensions**

- 9.1.1. Width (minimum): 900 mm.
- 9.1.2. Depth (minimum): 1460 mm.
- 9.2. Material: Aluminium floor with painted finish complete with anti-slip coating.
- 9.3. Colour: RAL 7015 Slate Grey - TBC by Client on colour preference.
- 10. Electrical supply: 230 V a.c. 50 Hz. 24v in-car controls
- 11. Control device type:
- 12. Control features: Emergency battery back up in-car lowering, manual lowering and stop button.
- 13. Accessories: Key switch to isolate the lift and prevent unauthorised use. Special colours and finishes to Client preference.
- 14. Speed: 0.08 m/s.
- 15. Footprint: 1350 x 1520 mm.
- 16. Design: Design based on Stannah Lifts Products - Lifts to be reviewed prior to order. Site conditions to be verified with chosen lift manufacturer.
- 17. Doors
 - 17.1. Arrangement: Through.

Ω End of Product



Specification created using NBS Chorus