

Museum of Oxford

NBS Architectural Specification
Purcell

OXF-PUR-MOO-XX-AR-SP_NBS Specification_D2_P1

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10-70-15/150 Masonry cleaning system - type Cleaning to Steps

System outline

10-70-15/150 Masonry cleaning system type Cleaning to Steps

- **Current reports:**
 - **Precontract cleaning trials:** Cleaning trials for approval with Conservation Officer
- **Preparation:**
 - **Main contract cleaning trials:** Required, as clause 110.
- **Cleaning operations:**
 - **Cleaning:** Allow for cleaning and removal of paint to steps. Cleaning and paint removal of steps to be carried out with the ThermoTech system.

Any remaining paint residue to be softened with Restorative Polyurethane Paint Softener or alternative recommended by the manufacturer. Application rate normally equivalent to 0.75-1kg per m², per application.
- **Execution:**
- **System completion:** 10-70-15/820 Record of main contract cleaning works and .

System completion

10-70-15/820 Record of main contract cleaning works

Shared by: 10-70-15/150 Masonry cleaning system type Cleaning to Steps and type Cleaning to Wall around Handrail - Blue Boar Entrance.

- **Requirement:** Create and maintain a record of cleaning works from the initial state of the fabric through to completion of the cleaning works.
- **Standard:** In accordance with relevant parts of BS 8221-1, clause 4.
- **Content:**
- **Submission:** At completion of cleaning works.

☐ End of system

10-70-15/150 Masonry cleaning system - type Cleaning to Wall around Handrail - Blue Boar Entrance

System outline

10-70-15/150 Masonry cleaning system type Cleaning to Wall around Handrail - Blue Boar Entrance

- **Preparation:**
 - **Main contract cleaning trials:** Required, as clause 110.
- **Cleaning operations:**
 - **Cleaning:** Copper Verdigris staining on stonework to be removed with Restorative Copper Stain Poultice. Bronze fittings must first be protected with tape and polythene. Allow for 2-3 applications and removal. The poultice requires an application thickness of approximately 5mm (equivalent to 6kg per m², per application).

The wall area as shown (refer to drawing 0305) is to be cleaned with the ThermaTech system to remove any remaining poultice residue and organic soiling. Care must be taken not to extend the area of cleaning (unless otherwise instructed) or to striate adjacent areas of soiling. This is to maintain a neat boundary to the work undertaken.

- **System completion:** 10-70-15/820 Record of main contract cleaning works and .

System completion

10-70-15/820 Record of main contract cleaning works

Shared by: 10-70-15/150 Masonry cleaning system type Cleaning to Steps and type Cleaning to Wall around Handrail - Blue Boar Entrance.

- **Requirement:** Create and maintain a record of cleaning works from the initial state of the fabric through to completion of the cleaning works.
- **Standard:** In accordance with relevant parts of BS 8221-1, clause 4.
- **Content:**
- **Submission:** At completion of cleaning works.

☐ End of system

10-70-55/155 Masonry repair system

System outline

10-70-55/155 Masonry repair system

- **Contract survey:** Required. Like for like. - York Stone
All steps to be surveyed refer to drawing 0305
3no. Steps to be cut out and replaced - Allow for replacing upper slab. Full scope of works to be confirmed following opening up works.
- **Conservation, repair or restoration technique:** Replacement masonry.
- **Replacement materials:**
 - **Materials:** 45-80-50/324 Natural dimensioned stones - York Stone Steps
 - **Attachment:** 10-70-55/753 Site mixed hydraulic lime mortar for masonry repair.
 - **Grouted joints:**
Grouting material: Submit proposals.
- **Samples required:** 10-70-55/305 Product samples. Allow for 3no. samples. Representative samples of designated materials: Submit before placing orders.
- **Execution: ;**
 - 10-70-55/606 Site inspection for masonry repair;
 - 10-70-55/610 Advance registration of stone or brick for masonry repair;
 - 10-70-55/619 Use of putlog scaffolding for masonry repair;
 - 10-70-55/620 Handling of masonry units and protection of retained and new masonry;
 - 10-70-55/626 Disturbance to retained masonry during masonry repair;
 - 10-70-55/629 Operative competence for masonry repair;
 - 10-70-55/630 Removal of fittings for masonry repair;
 - 10-70-55/639 Type and location of control samples for masonry repair;
 - 10-70-55/642 Preparation for replacement masonry;
 - 10-70-55/650 Laying replacement masonry units;
 - 10-70-55/653 Rebuilding during masonry repair;
 - 10-70-55/656 Laying bed joint reinforcement in masonry repairs;
 - 10-70-55/662 Pointing during masonry repair;
 - and 10-70-55/680 Orientation of natural stone units for masonry repair. 10-70-55/601 Possible Masons
- **System completion:**

Execution

10-70-55/601 Possible Masons

- **Approved Stone Masons:** Approved Stone Masons:

Wells Cathedral Masons - (peter@stone-mason.co.uk)
Cliveden Conservation - (benroberts@clivedenconservation.com)
Bespoke Masons - Brian Green (Brian@bespokestonemasonryservices.co.uk)

Alternative masons by approval only.

10-70-55/620 Handling of masonry units and protection of retained and new masonry

- **Masonry units:** Do not damage; prevent oversteering. Keep clean, dry and frost free.

- **Masonry:** Prevent damage, particularly to arrises, projecting features and delicate, friable surfaces. Prevent mortar/ grout splashes and other staining and marking on facework.

I 0-70-55/626 Disturbance to retained masonry during masonry repair

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

I 0-70-55/642 Preparation for replacement masonry

- **Defective material:** Carefully remove. Do not disturb, damage or mark adjacent retained masonry.
- **Existing metal fixings, frame members or components:**
 - **Exposed metal:** Submit report.
 - **Redundant metal:** Remove.
- **Recesses:** Remove projections and loose material. Leave joint surfaces in a suitable condition to receive replacement units. Protect from adverse weather if units are not to be placed immediately.

I 0-70-55/680 Orientation of natural stone units for masonry repair

- **Natural bed orientation:**
 - **Plain walling:** Horizontal.
 - **Projecting stones and copings:** Vertical and perpendicular to wall face.
 - **In arches:** Perpendicular to line of thrust.

□End of system

20-10-10/110 Board suspended ceiling system

System outline

20-10-10/110 Board suspended ceiling system

- **System performance:** 20-10-10/207 Gypsum board ceiling systems design requirements.
- **System manufacturer:** British Gypsum
- **System reference:** CasoLine MF suspended ceiling system
- **Suspension system:**
 - **Hanger type:** Gypframe MF8 strap hangers.
 - **Top fixings:** Gypframe GA1 steel angles, cut and bent, for direct fixing to the soffit using self tapping screws.
 - **Primary grid centres:** 900 mm.
 - **Hanger centres:** 900 mm.
 - **Secondary grid centres:** 450 mm.
- **Linings:** 1 x 12.5 mm Gyproc Moisture Resistant Plasterboard
- **Access Units:** Gyproc Profilex access panels - Metal door - Beaded frame - 3 Point lock
Size as shown on drawing 0204.
- **Finishing:** Skim coat plaster and paint finish.
- **Accessories:** Stop and Edge beads - Contractor's Choice
- **Finish:** 45-55-60/370 Finish plaster to Plasterboard Partitions and Linings.
- **Execution:** 20-10-10/605 Preliminary installation;
20-10-10/610 Installing suspension grids for boarded ceilings;
20-10-10/640 Installing boarded ceilings and soffits;
20-10-10/645 Installing plasterboard to metal framing;
and 20-10-10/675 Installing integrated services in suspended ceilings.
- **System completion:** 20-10-10/830 Operation and maintenance manual.

System performance

20-10-10/207 Gypsum board ceiling systems design requirements

- **Standards:** To BS 8000-0, BS 8212 and BS EN 13964.
- **Materials, components and details:** Use only the same as those tested and identified in assessment reports.
- **Integrated services fittings:** Supported independently of ceiling grid.

Products

45-45-00/310 Access panels

- **Manufacturer:** British Gypsum
- **Product reference:** Metal door - Beaded frame - 3 point lock
- **Fire resistance:** To match adjacent construction.

- **Position:** Ceiling mounted.
- **Size:** As shown on drawings
- **Frame:** Manufacturer's standard.
- **Panel:**
 - **Material:** Aluminium.
 - **Integral finish:** Powder coated.
- **Latch or lock type:** 3 Point Lock
- **Operation:** Concealed steel hinges, downward opening.

45-55-60/370 Finish plaster to Plasterboard Partitions and Linings

Shared by: 20-10-10/110 Board suspended ceiling system; 25-15-25/135 Gypsum board partition system type Arched Opening - Gallery 01; and 25-85-45/140 Gypsum board wall lining system PUR_Int_02.

- **Manufacturer:** British Gypsum
- **Product reference:** Thistle Multi Finish
- **Execution:** 45-55-60/620 Preparation for thin coat plaster;
45-55-60/685 Plaster thickness to Plasterboard Partitions and Lining;
and 45-55-60/715 Finish to plaster.

Execution

20-10-10/605 Preliminary installation

- **Installation requirements:** Complete an area of suspended ceiling in an agreed location.
- **Purpose:** For use as an installation reference sample.
- **Position:** Submit proposals.
- **Extent of area:** Submit proposals.
- **Features to be included:** Submit proposals.
- **Timing:** Construct and obtain approval of appearance before proceeding with general installation. Retain undisturbed until completion of demountable suspended ceiling installation.

20-10-10/610 Installing suspension grids for boarded ceilings

- **Standard:** To BS EN 13964.
- **Alignment:** Grid components to be accurately aligned and levelled.
- **Stability:** Suspension grid to be secured and braced to give a stable ceiling system resistant to design loads and pressures.
- **Hangers:** Install vertical or near vertical, without bends or kinks. Do not allow hangers to press against fittings, services, or insulation covering ducts/ pipes. Provide additional hangers as necessary to carry specified additional loads.
- **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.
- **Setting out:**
 - **Height above finished floor level:** Refer to drawings.
 - **Ceiling voids:** Refer to drawings.
 - **Bracing:** Provide bracing and stiffening at upstands, partition heads, access hatches, etc.
 - **Bulkheads:** Support and brace to provide alignment and stability. Provide additional support at base of high upstands.

- **Fixing hanger tops:**
 - **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.
 - **Concrete:** Drill and insert suitable expanding anchors. Do not use cast-in or shot-fired fixings.
 - **Aerated concrete:** Fix through from the top of concrete units and provide a system of primary support channels.
 - **Structural steel:** Drill to receive self-tapping screws or bolt fixings, or use proprietary flange clips. Clips should only be used with wire hangers.
 - **Metal roof decking:** Fix to sides of liner tray corrugations using self-tapping stainless steel screws.
 - **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.
 - **Hollow structural members:** Submit fixing proposals.

20-10-10/640 Installing boarded ceilings and soffits

- **Standard:** To BS EN 13964.
- **Sequence:** Fix boards to dry-lined walls and partitions before installing ceilings.
- **Orientation of boards:** Fix with long edges at right angles to supports. Stagger ends in adjacent rows.
- **Two layer boarding:** Stagger joints between layers.
- **Cut boards:** Cuts to be neat and accurate.
- **Fixings:** Dry wall screws at 230 mm. Reduce to 150 mm at board ends and around room perimeter.
- **Board edges:** All edges to be fully supported. Set heads of screws [fasteners] below board surface and fill flush with surface prior to decoration.
- **Movement joints:** Provide as appropriate for the area of ceiling system and/ or to coincide with movement joints in surrounding structure.
- **Openings:** Cuts to be neat and accurate, to suit sizes and edge details of fittings. Do not distort ceiling system.

20-10-10/645 Installing plasterboard to metal framing

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

20-10-10/675 Installing integrated services in suspended ceilings

- **Criteria:** Position services accurately, support adequately. Align and level in relation to the ceiling and suspension system. Do not diminish performance of ceiling system.
- **Small fittings:** Support with rigid backing boards or other suitable means. Do not damage or distort the ceiling.
- **Surface spread of flame rating of additional supporting material:** Not less than ceiling material.
- **Services outlets:**
 - **Supported by ceiling system:** Provide additional hangers.
 - **Independently supported:** Provide flanges to support ceiling system.
- **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.

45-55-60/620 Preparation for thin coat plaster

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

45-55-60/685 Plaster thickness to Plasterboard Partitions and Lining

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

45-55-60/715 Finish to plaster

- **Finish:** Smooth.
- **Appearance:**
 - **Smooth finish:**

Generally: A tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks. No crazing.

Standard of finish: To BS EN 13914-2, level 4.

System completion

20-10-10/830 Operation and maintenance manual

- **Contents:**
 - **Cleaning:** Cleaning methods and materials.
 - **Decoration:** Recommendations for redecoration.
 - **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.
 - **Point loads:** Maximum number, position and value of point loads that can be applied to ceiling system after installation.

☐ End of system

20-25-75/170 Rooflight system

System outline

20-25-75/170 Rooflight system

- **Operation:** Existing.
- **System accessories:** Window film to be applied to glazing. Ref. 25-90-35/130 Glazing film system
- **Execution:** 20-25-75/615 Workmanship for rooflights, roof windows and roof ventilators generally.

Execution

20-25-75/615 Workmanship for rooflights, roof windows and roof ventilators generally

- **Standard:** In accordance with BS 8000-7 generally.
- **Integrity:** Roof window system installations must be wind and watertight under all conditions with full allowance made for deflections and other movements.
- **Materials:**
 - **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.
 - **Protection:** Keep materials dry until fixed. Protect insulating glass units and plastics glazing units from the sun and other heat sources.

☐ End of system

20-55-75/165 Resilient sheet flooring system PUR_FL_03 - type A

System outline

20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A

- **Type:** PUR_FL_03
- **System manufacturer:** Altro
- **System reference:** Altro Orchestra™
- **Colour:** TBC - Standard colour palette.
- **Preparation:**
 - **Base:** 20-55-75/630 Assessing suitability of bases type All Vinyl;
20-55-75/635 Remove existing floorings;
and .
 - **Prior to flooring:** 20-55-75/615 Conditioning of flooring prior to laying.
- **Smoothing and levelling underlayment compound:** 45-55-10/320 Smoothing or levelling underlayment compound type A
- **Sheet:**
 - **Type:** 45-20-70/355 PVC sheet on PVC foam backing.
- **System accessories:** 45-20-35/355 Threshold strips type B - Vinyl to vinyl.
- **Execution:** ;
20-55-75/630 Assessing suitability of bases type All Vinyl;
;
20-55-75/680 Layout – setting out seams;
20-55-75/725 Welded or sealed seams;
20-55-75/745 Joints at doorways;
20-55-75/755 Fixing stair nosings and trims;
20-55-75/760 Fixing skirtings;
and .
- **System completion:** 20-55-75/800 Trafficking after laying type A.

Products

45-20-35/355 Threshold strips type B - Vinyl to vinyl

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; and 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04.

- **Manufacturer:** Gradus
- **Profile:** JT365F3
- **Material:** Aluminium.
- **Finish:** Polished.
- **Colour:** Manufacturer's standard.
- **Width:** Manufacturer's standard.
- **Thickness:** Manufacturer's standard.
- **Matching fasteners:** Manufacturer's standard.

45-20-70/355 PVC sheet on PVC foam backing type A

- **Manufacturer:** Altro
- **Product reference:** Altro Orchestra™
- **Colour:** TBC
- **Standard:** To BS EN 650.

45-55-10/320 Smoothing or levelling underlayment compound type A

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05; and 20-55-90/195 Wood block flooring system.

- **Type:** All
- **Manufacturer:** Larsen Lartex Flo Self Levelling Compound or Similar and Approved.
- **Material:** Latex cement.

Execution

20-55-75/615 Conditioning of flooring prior to laying

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Standards:** To BS 8203 and BS 5325.
- **General:**
 - **Before laying:** Condition materials by unpacking and separating in spaces where they are to be laid.
 - **Resilient flooring rolls:** Maintain in an upright position.
 - **Carpet:** Unroll and keep flat on a supporting surface.
- **Conditioning time and temperature (minimum):**
 - **Generally:** As recommended by manufacturer.
 - **Materials stored or transported at a temperature below 10°C immediately before laying:** Extend time by a factor of two.

20-55-75/630 Assessing suitability of bases type All Vinyl

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Existing bases:**
 - **Notification:** Before commencing work, confirm that existing bases will, be suitable to receive coverings.
 - **Suitability of bases and conditions within any area:** Do not lay coverings on unsuitable bases and in unsuitable conditions.
- **New wet-laid bases:**
 - **Base drying aids:** Do not use for at least four days before moisture content testing.
 - **Base moisture content:** Test in accordance with BS 5325, Annexe A or BS 8203, Annexe A.
 - **Locations for readings:** In all corners, along edges, and at regular centres over general areas being tested.
 - **Laying coverings:** Do not start until all readings show 75% relative humidity or less.

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

20-55-75/635 Remove existing floorings

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

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

20-55-75/680 Layout – setting out seams

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Setting out of seams:** Submit proposals - To be agreed with Architect on site.

20-55-75/725 Welded or sealed seams

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Materials:** Submit proposals.
- **Commencement (minimum):** 24 hours after laying, or after adhesive has set.
- **Joints:** Neat, smooth. Strongly bond. Flush with finished surface.

20-55-75/745 Joints at doorways

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

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

20-55-75/755 Fixing stair nosings and trims

- **Fixing:** Secure, level. Mitre joints. Adjust to suit thickness of covering, with continuous packing strips of hardboard or plywood.
- **Nosings and packing strips:** Bed in gap filling adhesive.

20-55-75/760 Fixing skirtings

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Fixing:** Secure with top edge straight and parallel with floor.
- **Corners:** Mitre joints.

System completion

20-55-75/800 Trafficking after laying type A

- **Covering:** Contractor's choice.
- **Traffic free period (minimum):** Until adhesive is set.

20-55-75/165 Resilient sheet flooring system PUR_FL_04 - type PUR_FL_04

System outline

20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04

- **Preparation:**
 - **Base:** 20-55-75/630 Assessing suitability of bases type All Vinyl and 20-55-75/635 Remove existing floorings.
 - **Prior to flooring:** 20-55-75/615 Conditioning of flooring prior to laying.
- **Smoothing and levelling underlayment compound:** 45-55-10/320 Smoothing or levelling underlayment compound type A
- **Sheet:**
 - **Type:** 45-20-70/360 PVC sheet with particle based enhanced slip resistance.
- **Seams:** Welded or sealed.
- **Site finish:** Submit proposals.
- **System accessories:** 45-20-35/355 Threshold strips type B - Vinyl to vinyl.
- **Execution:** 20-55-75/615 Conditioning of flooring prior to laying;
20-55-75/620 Environmental conditions before, during and after laying;
20-55-75/635 Remove existing floorings;
20-55-75/680 Layout – setting out seams;
20-55-75/725 Welded or sealed seams;
20-55-75/745 Joints at doorways;
and 20-55-75/760 Fixing skirtings.
- **System completion:** 20-55-75/800 Trafficking after laying type All.

Products

45-20-35/355 Threshold strips type B - Vinyl to vinyl

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; and 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04.

- **Manufacturer:** Gradus
- **Profile:** JT365F3
- **Material:** Aluminium.
- **Finish:** Polished.
- **Colour:** Manufacturer's standard.
- **Width:** Manufacturer's standard.
- **Thickness:** Manufacturer's standard.
- **Matching fasteners:** Manufacturer's standard.

45-20-70/360 PVC sheet with particle based enhanced slip resistance

- **Manufacturer:** Altro
- **Product reference:** Altro Suprema

- **Colour:** TBC - Standard colour pallette

45-55-10/320 Smoothing or levelling underlayment compound type A

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05; and 20-55-90/195 Wood block flooring system.

- **Type:** All
- **Manufacturer:** Larsen Lartex Flo Self Levelling Compound or Similar and Approved.
- **Material:** Latex cement.

Execution

20-55-75/615 Conditioning of flooring prior to laying

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Standards:** To BS 8203 and BS 5325.
- **General:**
 - **Before laying:** Condition materials by unpacking and separating in spaces where they are to be laid.
 - **Resilient flooring rolls:** Maintain in an upright position.
 - **Carpet:** Unroll and keep flat on a supporting surface.
- **Conditioning time and temperature (minimum):**
 - **Generally:** As recommended by manufacturer.
 - **Materials stored or transported at a temperature below 10°C immediately before laying:** Extend time by a factor of two.

20-55-75/620 Environmental conditions before, during and after laying

- **Temperature and humidity:** Maintain approximately at levels which will prevail after building is occupied.
- **Ventilation:** Adequate.
- **Underfloor heating before laying:** Turn off at least 48 hours before start of laying.

20-55-75/630 Assessing suitability of bases type All Vinyl

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Existing bases:**
 - **Notification:** Before commencing work, confirm that existing bases will, be suitable to receive coverings.
 - **Suitability of bases and conditions within any area:** Do not lay coverings on unsuitable bases and in unsuitable conditions.
- **New wet-laid bases:**
 - **Base drying aids:** Do not use for at least four days before moisture content testing.
 - **Base moisture content:** Test in accordance with BS 5325, Annexe A or BS 8203, Annexe A.
 - **Locations for readings:** In all corners, along edges, and at regular centres over general areas being tested.

- **Laying coverings:** Do not start until all readings show 75% relative humidity or less.
- **Trowelled finishes:** Uniform, smooth surface free from trowel marks and other blemishes. Abrade suitably to receive floor covering material.

20-55-75/635 Remove existing floorings

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

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

20-55-75/680 Layout – setting out seams

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Setting out of seams:** Submit proposals - To be agreed with Architect on site.

20-55-75/725 Welded or sealed seams

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Materials:** Submit proposals.
- **Commencement (minimum):** 24 hours after laying, or after adhesive has set.
- **Joints:** Neat, smooth. Strongly bond. Flush with finished surface.

20-55-75/745 Joints at doorways

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

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

20-55-75/760 Fixing skirtings

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Fixing:** Secure with top edge straight and parallel with floor.
- **Corners:** Mitre joints.

System completion

20-55-75/800 Trafficking after laying type All

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Covering:** Contractor's choice.
- **Traffic free period (minimum):** Until adhesive is set.

□ End of system

20-55-75/165 Resilient sheet flooring system PUR_FL_05 - type PUR_FL_05

System outline

20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05

- **System performance:** 20-55-75/220 Antistatic performance.
- **System manufacturer:** Altro
- **Preparation:**
 - **Base:** 20-55-75/630 Assessing suitability of bases type All Vinyl;
20-55-75/635 Remove existing floorings;
and .
 - **Prior to flooring:** 20-55-75/615 Conditioning of flooring prior to laying.
- **Smoothing and levelling underlayment compound:** 45-55-10/320 Smoothing or levelling underlayment compound type A
- **Sheet:**
 - **Type:** 45-20-70/335 PVC sheet.
- **Seams:** Welded or sealed.
- **Site finish:** Submit proposals.
- **System accessories:** 45-20-35/355 Threshold strips type .
- **Execution:** 20-55-75/615 Conditioning of flooring prior to laying;
20-55-75/630 Assessing suitability of bases type All Vinyl;
20-55-75/635 Remove existing floorings;
20-55-75/680 Layout – setting out seams;
20-55-75/725 Welded or sealed seams;
20-55-75/745 Joints at doorways;
and 20-55-75/760 Fixing skirtings.
- **System completion:** 20-55-75/800 Trafficking after laying type All.

System performance

20-55-75/220 Antistatic performance

- **Standard:** To BS 2050.

Products

45-20-70/335 PVC sheet

- **Manufacturer:** Altro
- **Product reference:** Altro Walkway 20SD - Colour TBC

45-55-10/320 Smoothing or levelling underlayment compound type A

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet

flooring system PUR_FL_04 type PUR_FL_04; 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05; and 20-55-90/195 Wood block flooring system.

- **Type:** All
- **Manufacturer:** Larsen Lartex Flo Self Levelling Compound or Similar and Approved.
- **Material:** Latex cement.

Execution

20-55-75/615 Conditioning of flooring prior to laying

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Standards:** To BS 8203 and BS 5325.
- **General:**
 - **Before laying:** Condition materials by unpacking and separating in spaces where they are to be laid.
 - **Resilient flooring rolls:** Maintain in an upright position.
 - **Carpet:** Unroll and keep flat on a supporting surface.
- **Conditioning time and temperature (minimum):**
 - **Generally:** As recommended by manufacturer.
 - **Materials stored or transported at a temperature below 10°C immediately before laying:** Extend time by a factor of two.

20-55-75/630 Assessing suitability of bases type All Vinyl

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Existing bases:**
 - **Notification:** Before commencing work, confirm that existing bases will, be suitable to receive coverings.
 - **Suitability of bases and conditions within any area:** Do not lay coverings on unsuitable bases and in unsuitable conditions.
- **New wet-laid bases:**
 - **Base drying aids:** Do not use for at least four days before moisture content testing.
 - **Base moisture content:** Test in accordance with BS 5325, Annexe A or BS 8203, Annexe A.
 - **Locations for readings:** In all corners, along edges, and at regular centres over general areas being tested.
 - **Laying coverings:** Do not start until all readings show 75% relative humidity or less.
- **Trowelled finishes:** Uniform, smooth surface free from trowel marks and other blemishes. Abrade suitably to receive floor covering material.

20-55-75/635 Remove existing floorings

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

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

20-55-75/680 Layout – setting out seams

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Setting out of seams:** Submit proposals - To be agreed with Architect on site.

20-55-75/725 Welded or sealed seams

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Materials:** Submit proposals.
- **Commencement (minimum):** 24 hours after laying, or after adhesive has set.
- **Joints:** Neat, smooth. Strongly bond. Flush with finished surface.

20-55-75/745 Joints at doorways

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

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

20-55-75/760 Fixing skirtings

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Fixing:** Secure with top edge straight and parallel with floor.
- **Corners:** Mitre joints.

System completion

20-55-75/800 Trafficking after laying type All

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; and 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05.

- **Covering:** Contractor's choice.
- **Traffic free period (minimum):** Until adhesive is set.

☐ End of system

20-55-90/195 Wood block flooring system

System outline

20-55-90/195 Wood block flooring system

- **System performance:** and 20-55-90/290 Compliance with performance requirements.
- **System manufacturer:** Submit proposals.
- **Substrate preparation:** 45-55-10/320 Smoothing or levelling underlayment compound type A.
- **Flooring:** 45-80-98/305 Wood blocks
- **Adhesive:** Submit proposals.
- **System accessories:** 45-20-35/355 Threshold strips type Wood to Wood or Vinyl.
- **Samples required:** 20-55-90/305 Product samples.
- **Execution:** 20-55-90/610 Laying wood and composite unit flooring systems generally;
20-55-90/650 Preparing substrates for wood and composite unit flooring systems;
;
20-55-90/680 Allowance for movement of wood and composite unit flooring systems;
and 20-55-90/690 Sanding and filling of wood and composite unit flooring systems.
- **System completion:** 20-55-90/850 Temporary protection of wood and composite unit flooring systems
20-55-90/801 Finishing Existing and New Wood Block Flooring

System performance

20-55-90/290 Compliance with performance requirements

- **Purpose:** Proof of compliance with specified performance.
- **General requirements:** Include details of performance related to the particular elements of construction.

Products

20-55-90/305 Product samples

- **Manufacturer:** Submit proposals.
- **Submittals:** Wood block.
- **Purpose:** For use as a reference sample.
- **Labelling:** Clearly label all submitted samples.
- **Timing:** Min. 10 working days prior to placing order.

45-20-35/355 Threshold strips type Wood to Wood or Vinyl

Shared by: 20-55-90/195 Wood block flooring system; and 20-55-95/195 Wood floating floor system.

- **Manufacturer:** Stairrods (UK) Ltd, Unit 6 Park Road North Ind Est, Blackhill, Consett, County Durham, DH8 5UN, England Tel: +44 (0) 1207 591176
- **Profile:** Posh 55
- **Material:** Polished Brass
- **Finish:** Polished Brass

- **Colour:** Polished Brass
- **Width:** To be measured on site
- **Thickness:** Manufacturer's standard.
- **Predrilled:** Mechanical (screw) and adhesive fix - as per manufacturers instructions
- **Matching fasteners:** Manufacturer's standard.

45-55-10/320 Smoothing or levelling underlayment compound type A

Shared by: 20-55-75/165 Resilient sheet flooring system PUR_FL_03 type A; 20-55-75/165 Resilient sheet flooring system PUR_FL_04 type PUR_FL_04; 20-55-75/165 Resilient sheet flooring system PUR_FL_05 type PUR_FL_05; and 20-55-90/195 Wood block flooring system.

- **Type:** All
- **Manufacturer:** Larsen Lartex Flo Self Levelling Compound or Similar and Approved.
- **Material:** Latex cement.

45-60-90/340 Timber procurement

Shared by: 45-45-95/370 Engineered wood (wood veneer) boards; 45-60-90/360 Softwood sections; 45-75-95/340 Wood architraves; and 45-80-98/305 Wood blocks.

- **Timber source:**
 - **General requirements:** Obtain from well managed forests and/ or plantations.
 - **Legality and sustainability:** Sustainability requirements set in UK Government timber procurement policy (UKTPP) and as outlined in the supporting Timber Procurement Advice Note (TPAN).
 - **Documentation to be submitted:** Documentary evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-derived products.
- **Certification scheme:** Forest Stewardship Council (FSC) and In accordance with UK Government timber procurement policy (UKTPP).
- **Timing of submissions:** Prior to supplier order acceptance.

45-80-98/305 Wood blocks

- **General requirements:** 45-60-90/340 Timber procurement.
- **Manufacturer:** Submit proposals.
- **VOC emissions:** Submit proposals.
- **Requirements:** Free from decay, through splits and insect attack (including ambrosia beetle damage, unless permitted in the class or grade specified).
- **Species:** Assume existing floor is Oak. Contractor to establish species and obtain samples to ensure proposed blocks match existing in both colour and grade.
- **Appearance:**
 - **Standard:** To BS EN 942.
 - **Class:** Submit proposals. Quality of material to match existing.
 - **Grade:** Submit proposals.
- **Block size:** To match existing
- **Edges:** Square.
- **Bottom of long edges:** Chamfered or grooved to take up surplus adhesive.
- **Finish as delivered:** Planed.

Execution

20-55-90/610 Laying wood and composite unit flooring systems generally

- **Setting out:** Lay blocks to a symmetrical pattern. Keep small cut blocks to a minimum. Even out minor vertical gaps between blocks.
- **Bedding:** Fully bond blocks or panels to substrate.
- **Floor trims:**
 - **Positions:** At junctions with other materials.
- **Additional requirements:**
 - **Laying pattern:**
Composition and wood block: Herringbone to match existing.

20-55-90/650 Preparing substrates for wood and composite unit flooring systems

- **Concrete or screed substrates:**
 - **General criteria:** Smooth, even, and free from abrupt changes in level. Apply suitable levelling compound, as necessary.
 - **Surface regularity:** In accordance with BS 8201.
 - **Condition before laying flooring:** Dry and free from dust, debris, grease and other deleterious matter.
- **Timber substrates:**
 - **Finished surface:** In accordance with BS 8201.
 - **Protruding fasteners:** Punch in or countersink.
 - **Smoothing:** Plane, sand or apply suitable smoothing compound, as necessary.
 - **Defective boards:** Submit report.

20-55-90/680 Allowance for movement of wood and composite unit flooring systems

- **Expansion gap around perimeter of flooring (minimum):** Submit proposals.
- **Spacer blocks and debris:** Remove before fixing skirtings and cover fillets.
- **Intermediate movement joints:** Form as recommended by flooring manufacturer or supplier.
- **Position:** Submit proposals.
- **Additional requirements:** Fill perimeter and intermediate joints.

20-55-90/690 Sanding and filling of wood and composite unit flooring systems

- **Finished surfaces:** Smooth and even, free from drum marks and with a minimum of crossgrain scoring.
- **Minor cracks and gaps:** Fill, colour to match flooring.
- **Dust and debris:** Remove from flooring and adjacent surfaces.

System completion

20-55-90/801 Finishing Existing and New Wood Block Flooring

- **Finish:** On completion of installation of new wood block flooring, all existing and new flooring to be lightly sanded to provide a consistent colour and texture to base. Floor to be coated with Fiddes Hardwax Oil - Clear Satin.

- **Product:** Floor to be coated in min. 2 coats of Fiddes Hardwax Oil – Clear Satin. To be completed in accordance with manufacturers instructions.
Sample to be agreed on site prior to placing order for coating and agreed with Architect.

20-55-90/850 Temporary protection of wood and composite unit flooring systems

- **Protective covering:** 3 mm hardboard with taped joints.
- **Removal:** At project completion.

☐ End of system

20-55-95/195 Wood floating floor system

System outline

20-55-95/195 Wood floating floor system

- **System manufacturer:** Havwoods
- **Subfloor preparation layer:** 45-55-10/320 Smoothing or levelling underlayment compound
- **Flooring:**
 - **Board type:** 45-45-95/370 Engineered wood (wood veneer) boards
 - **Jointing:** To be fully bonded to the sub-floor using Marldon MXA200 adhesive.
 - **Layout:** Floor laid in Herringbone format as per manufacturers instructions. Stair risers and treads to Gallery 01 to be laid in brick format.
Perimeter of each room to have 240mm wide border of flooring laid in continuous brick format.
 - **Exhibition Installation:** Where exhibition pieces are to be fixed through the floor, a hole of sufficient size must be cut to allow for expansion / contraction. A spacer at least 2mm thicker than the wood should be placed in the hole (also allow for expansion around the spacer) so that when the structure is fixed down it does not trap the wood flooring.
- **System accessories:** 45-20-35/355 Threshold strips type Wood to Wood or Vinyl.
- **Execution:** 20-55-95/625 Installing fixtures;
20-55-95/630 Moisture content of concrete or screed subfloors for floating floors;
20-55-95/635 Substrate preparation;
20-55-95/665 Installing trims;
and .

Products

45-20-35/355 Threshold strips type Wood to Wood or Vinyl

Shared by: 20-55-90/195 Wood block flooring system; and 20-55-95/195 Wood floating floor system.

- **Manufacturer:** Stairrods (UK) Ltd, Unit 6 Park Road North Ind Est, Blackhill, Consett, County Durham, DH8 5UN, England Tel: +44 (0) 1207 591176
- **Profile:** Posh 55
- **Material:** Polished Brass
- **Finish:** Polished Brass
- **Colour:** Polished Brass
- **Width:** To be measured on site
- **Thickness:** Manufacturer's standard.
- **Predrilled:** Mechanical (screw) and adhesive fix - as per manufacturers instructions
- **Matching fasteners:** Manufacturer's standard.

45-60-90/340 Timber procurement

Shared by: 45-45-95/370 Engineered wood (wood veneer) boards; 45-60-90/360 Softwood sections; 45-75-95/340 Wood architraves; and 45-80-98/305 Wood blocks.

- **Timber source:**
 - **General requirements:** Obtain from well managed forests and/ or plantations.

- **Legality and sustainability:** Sustainability requirements set in UK Government timber procurement policy (UKTPP) and as outlined in the supporting Timber Procurement Advice Note (TPAN).
- **Documentation to be submitted:** Documentary evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-derived products.
- **Certification scheme:** Forest Stewardship Council (FSC) and In accordance with UK Government timber procurement policy (UKTPP).
- **Timing of submissions:** Prior to supplier order acceptance.

Execution

20-55-95/625 Installing fixtures

- **Fixtures around which strip flooring is to be fixed:** Install before starting flooring.

20-55-95/630 Moisture content of concrete or screed subfloors for floating floors

- **Relative humidity (maximum) above subfloor:** Typically 10% +/- 2% moisture.
- **Hygrometer:** In accordance with BS 8201, Annex A.
- **Test points:** Corners, around perimeter, and random points over area being tested.
- **Drying aids:** Turn off at least four days before testing.

20-55-95/635 Substrate preparation

- **General:** Levelling screed.
- **Existing timber floors:** In accordance with BS 8201.

20-55-95/665 Installing trims

- **Position:** Submit proposals.
- **Installation:** As flooring and trim manufacturers' instructions.
- **Joints:** Trim, abut or join as manufacturer's instructions.
- **Excess material:** Trim off neatly. Recycle, or return for reprocessing where take back scheme is available.

☐ End of system

25-05-65/110 Panel partition system

System outline

25-05-65/110 Panel partition system

- **System performance:** FD30s
- **System manufacturer:** Planet FireTec Ei30(Ei30 Doorsets) Fire Rated Glazed ScreenSystem - Planet Partitioning
- **Panel partitioning:** 45-35-80/420 Panel partitions
- **Fasteners:**
- **Joint treatment:**
- **Joint finish:**
- **System accessories:**
- **Samples required:**
- **Execution:**
- **System completion:**

Products

45-35-80/420 Panel partitions

- **Manufacturer:** Western Unit 6LansdowneCourt Bumpers Way Chippenham SN14 6RZTel : 01249 448920 Andy Padfield –andy.padfield@planetwest.co.uk07966 148627
- **Third party accreditation:**
- **Wood in joinery standard:** Generally to BS EN 942 for wood components.
- **Unit size:**
 - **Thickness:**
 - **Partition height (nominal):**
 - **Width (nominal):**
- **Deflection allowance (maximum):**
 - **Head:** Manufacturer's standard.
 - **Floor:** Manufacturer's standard.
 - **Verticals:** Manufacturer's standard.
- **Panel partition type:** Planet FireTec Ei30(Ei30 Doorsets) Fire Rated Glazed ScreenSystem

Product Reference:

- Planet FireTec Ei30 (Ei30 Doorsets) Fire Rated Glazed Screen System

Strength Guide:

- To BS 5234-2

Heavy (HD)

Fire Resistance of complete system conforming to BS 476-22:

- Ei30 (30/30 minutes - integrity / insulation)

Sound Insulation to BS EN ISO 140-3:

- 39dB (Rw) - note - this rating is indicative for sidelight glass only

Screen Height:

- As drawings (not to exceed 2900mm)

Screen Width:

- As drawings

Screen Head Condition:

- 30-minute fire rated arched Bulkhead / beam

Partition Abutments:

- Head detail :

- Ei30 shuffle glazed, multi module - 50mm x 70mm Stainless Steel Channel

- Floor detail:

- Ei30 shuffle glazed, multi module - 50mm x 70mm Stainless Steel Channel

- Wall Abutments:

- Ei30 shuffle glazed, multi module - 50mm x 70mm Stainless Steel Channel

Framing:

Stainless Steel track sections

Glazing Junctions / Corners:

- FireTec Silicone joint

Skirting / Sills:

- Refer to floor detail options detailed above

Fixing at Abutments:

- Refer to abutment detail options detailed above

Glazing Type:

- Single central glazed, with;

- Ei30 - 17mm Planet Multi-Layer FireGlass

Manifestation:

- To architects choice and in accordance with the requirements of Approved Document K:

- Artwork and custom manifestation to client design

Door sets type:

- Planet FireTec Ei30 30/30 double doorset.

- Ironmongery:

- Planet range SSS finish

- Handles:

- full height Pull Handles

- Closure Options:

- Floor spring

" Accessories:

- TBC

Special Requirements:

- Intermediate transom above doorset supported with full height mullions

Finishes / Colour:

To architects choice from Planet Partitioning standard RAL range or Brushed Stainless Steel finish.

- **Framing, junctions, corners:**

- **Solid panels:**
 - **Type:**
 - **Finish and colour:**
- **Joint treatment:**
 - **Type:**
 - **Finish and colour:**
- **Glazed panels:**
 - **Type:**
 - **Integral blinds:**
 - **Additional features:**
- **Door arrangement:**
 - **Type:**
 - **Door frames:**
 - **Door leafs:**
 - Type:**
 - Vision panels:**
- **Additional apertures:**
- **Ceiling:**
 - **Type:**
 - **Panels:**
 - **Method of support:**
 - **Joint treatment:**
- **Perimeters, skirtings, sills:**
- **Trims:**
- **Hardware:**
- **Seals:**
- **Cable management and outlets:**
- **Other features:**

☐ End of system

25-10-55/165 Masonry internal partition system PUR_Int_03

System outline

25-10-55/165 Masonry internal partition system PUR_Int_03

- **System performance:** 25-10-55/252 Design for fire performance of masonry structures.
- **Mortar:** 25-10-55/710 Site mixed cement gauged mortar.
- **Lime Plaster Finish:** Plaster finish to masonry walls to match existing plaster and to be blended in seamlessly.

Plaster Analysis:

- Carry out material analysis of existing plaster layers to determine aggregate mode and mortar formulation.
- Allow for three different sample locations covering each layer.
- When the mixes are established, provide replication mixes in biscuit form for approval.

Completion:

- Apply sufficient lime based plaster coats (up to 3 no.) to the blockwork wall . In accordance with the mortar analysis add animal hair in the correct proportion and gypsum if detected in analysis.
- Finish to be smooth and match existing.
- **Masonry units:** 45-80-50/300 Aggregate concrete blocks.
- **Movement joint components:** 45-75-90/345 Expanded polyethylene foam strip.
- **Dpc:** Existing.
- **Lintels:**
 - **Primary:** Refer to Structural Engineers Specification
- **System accessories:** Wall starters - Refer to Structural Engineers Specification
- **Execution:** 25-10-55/601 Cleanliness;
25-10-55/605 Execution Standards for masonry structures;
and 25-10-55/674 Masonry movement joints.

System performance

25-10-55/252 Design for fire performance of masonry structures

- **Standard:** In accordance with BS 476-21 and In accordance with BS EN 1365-1.
- **Criteria:** Refer to proposed fire strategy.

Products

45-75-90/345 Expanded polyethylene foam strip

- **Manufacturer:** Contractor's choice.
- **Fire rating:** 60 Mins Fire Rating
- **Material:** Contractor's choice.
- **Density:** 33 kg/m³.
- **Compression in joint (minimum):** 25%.

- **Colour:** Black.
- **Execution:** 45-75-90/620 Installing movement joint fillers in masonry.

45-80-50/300 Aggregate concrete blocks

- **Manufacturer:** Submit proposals.
- **Standard:** To BS EN 771-3.
- **Block description:** Common block.
- **Appearance:** Submit proposals.
- **Configuration:** Manufacturer's standard.
- **Compressive strength:**
 - **Mean value:** 7.3 N/mm².
 - **Category:** Manufacturer's standard.
- **Recycled content:** 50% (minimum) to BS EN ISO 14021.
- **Work sizes (length x width x height):** Contractor's choice. - To be cut to suit existing wall thicknesses including allowance for 3no. layers of lime plaster.
- **Tolerance category:** Manufacturer's standard.
- **Reaction to fire:** Class A1.
- **Water absorption by capillarity:** Contractor's choice.
- **Water vapour permeability:** Contractor's choice.
- **Execution:** and 45-80-50/690 Laying brick and block masonry units generally.

Execution

25-10-55/601 Cleanliness

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

25-10-55/605 Execution Standards for masonry structures

- **Standard:** To BS EN 1996-2.

25-10-55/674 Masonry movement joints

- **Joint frequency:** Submit proposals.
- **Joint width:** Submit proposals.
- **Joint location:** Submit proposals.

25-10-55/710 Site mixed cement gauged mortar

- **Mortar type:** Site batched and mixed cement:lime:sand.
- **Components:**
- **Mix:**
- **Colour:**
- **Admixture:**

45-75-90/620 Installing movement joint fillers in masonry

- **Application:** Fire resisting movement joints that do not use sealant.
- **Filler placement:** Contractor's choice.

45-80-50/690 Laying brick and block masonry units generally

- **Mortar joints:** Lay units on a full bed. Fill vertical joints and voids.
- **Thin mortar and adhesive joints:**
 - **Generally:** Lay blocks on a full bed. Fill vertical joints.
- **Joint appearance:** Neat and consistent.
- **Bond where not specified:** Half lap stretcher.
- **Vertical joints in brick and concrete block facework:** Plumb at every fifth cross joint.
- **Cleanliness:**
 - **Facework:** Keep clean.
 - **Mortar on facework:** Allow to dry before removing with stiff bristled brush.
 - **Removal of marks and stains:** Rubbing and other abrasive or chemical cleaning methods not permitted.

□ End of system

25-15-25/135 Gypsum board partition system PUR_Int_01 - type A

System outline

25-15-25/135 Gypsum board partition system PUR_Int_01 type A

- **Type:** A
- **System performance:** 25-15-25/207 Framed partition system design requirements.
- **System manufacturer:** British Gypsum
- **System reference:** GypWall Classic
- **Studs:**
 - **Type:** 70 mm Gypframe 70 S 50 'C' studs.
 - **Centres:** 600 mm.
- **Head condition:**
 - **Type:** Gypframe Deep Flange Floor & Ceiling Channe. Refer to Gypwall Standard Details - Deflection head for 15mm downward movement.
- **Insulation:**
- **Linings:**
 - **Type:** 2 x 12.5 mm Gyproc WallBoard to each side.
Moisture resistant board to be used in WCs and Kitchens.
 - **Edge:** Square edged.
- **Finishing:**
 - **Type:** Skim coat plaster finish.
- **Accessories:** Rigid beads/ stops.
- **Other requirements:** Moisture resistant boards to be used within WC's
- **System completion:** 25-15-25/895 Verification of performance.

System performance

25-15-25/207 Framed partition system design requirements

- **Standard:** To BS 8000-0 and BS 8212.
- **Materials, components and details:** Use only the same as those tested and identified in assessment reports.

Execution

25-15-25/610 Installing framed partitions generally

Shared by: 25-15-25/135 Gypsum board partition system PUR_Int_01 type A; and 25-15-25/135 Gypsum board partition system type Arched Opening - Gallery 01.

- **Standard:** To BS 8000-0 and BS 8212.
- **Deviations and tolerances:**

- **Vertical deviation (maximum):** ± 5 mm measured above or below the setting out position, in accordance with BS 8212 clause 3.3.2.
- **Horizontal deviation (maximum):** ± 3 mm measured at the setting out level (ceiling or floor), in accordance with BS 8212 clause 3.3.2.
- **Finished surfaces:** Maximum deviation band of 10 mm in accordance with BS 8212 clause 3.3.3.

25-15-25/620 Installing partitions onto new concrete and screeds

- **Dpcs:**
 - **General:** Lay loose onto concrete or screed under full width and length of partition sole plates.
 - **Laps (minimum):** 150 mm and bonded.
 - **Abutments:** Turn up a minimum of 150 mm where partition frames abut perimeter walls.
- **Wall linings:** Keep short of floor level with a minimum gap of 20 mm.

25-15-25/630 Installing framing for partitions

Shared by: 25-15-25/135 Gypsum board partition system PUR_Int_01 type A; and 25-15-25/135 Gypsum board partition system type Arched Opening - Gallery 01.

- **Partition height:** Room height.
- **Layout:** Manufacturer Specification
- **Stud centres (nominal):** Manufacturer Specification
- **Setting out:**
 - **General:** Accurately align and plumb.
 - **Frame and stud positions:** Equal centres, to suit linings. Maintain sequence across openings.
- **Fixing perimeter framing to supporting structures:** Manufacturer Specification
- **Head deflection allowance (maximum):** 15mm
- **Openings:**
 - **General:** Form accurately.
 - **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.
 - **Services penetrations:** Allow for associated fire stopping.

25-15-25/650 Installing deflection heads

Shared by: 25-15-25/135 Gypsum board partition system PUR_Int_01 type A; and 25-15-25/135 Gypsum board partition system type Arched Opening - Gallery 01.

- **Deflection head detail:** Concealed deflection head. Gypframe Deep Flange Floor & Ceiling Channel. Refer to Gypwall Standard Details - Deflection head for 15mm downward movement + 60 mins fire resistance where required.
- **Fixing:** Do not fix boards to head framing channels. Do not fix head framing directly to soffit linings or metal decking.

25-15-25/660 Installing plasterboard to metal framing

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

25-15-25/690 Sealing gaps and air paths around partitions

Shared by: 25-15-25/135 Gypsum board partition system PUR_Int_01 type A; and 25-15-25/135 Gypsum board partition system type Arched Opening - Gallery 01.

- **Location of sealant:** To perimeter abutments and around openings. At board-to-board and board-to-metal frame junctions in pressurized shafts and ducts.
- **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.

25-15-25/695 Installing insulation and cavity barriers in framed partitions

- **Insulation:**
 - **Fitting:** Secure with closely butted joints and no gaps.
 - **Rigid insulation:** Fit tightly between studs.
 - **Non rigid insulation:** Fix at head of frame using timber battens or metal clips.
- **Cavity barriers:**
 - **Generally:** Form accurately with no gaps at joints and perimeters. Mechanically fix securely across full width of cavity.
 - **Fire rated partitions:** Include cavity barriers to ceiling or floor void above, below or between partitions. Provide same rating for barrier as partition.
 - **Junctions:** Seal perimeter abutments, service penetrations, etc. Prevent penetration of smoke and flame.

System completion

25-15-25/895 Verification of performance

- **Requirements:** Check completed system and provide assurance of compliance with specified performance.
- **Submissions:**
 - **Format:** Description of inspections, remedial works carried out and certification of compliance.

☐ End of system

25-15-25/135 Gypsum board partition system - type Arched Opening - Gallery 01

System outline

25-15-25/135 Gypsum board partition system type Arched Opening - Gallery 01

- **Joint treatment:** Timber bead cover strip to cover joint between new plaster and existing. - Refer to drawing 0400

Painted timber moulding to face of arch. Moulding to match existing. Allow for surveying of decorative mouldings to existing arch- Refer to drawing 0400

- **Finish:** 45-55-60/370 Finish plaster to Plasterboard Partitions and Linings.
- **Execution:** 25-15-25/610 Installing framed partitions generally;
25-15-25/630 Installing framing for partitions;
25-15-25/650 Installing deflection heads;
and 25-15-25/690 Sealing gaps and air paths around partitions.

Products

45-55-60/370 Finish plaster to Plasterboard Partitions and Linings

Shared by: 20-10-10/110 Board suspended ceiling system; 25-15-25/135 Gypsum board partition system type Arched Opening - Gallery 01; and 25-85-45/140 Gypsum board wall lining system PUR_Int_02.

- **Manufacturer:** British Gypsum
- **Product reference:** Thistle Multi Finish
- **Execution:** 45-55-60/620 Preparation for thin coat plaster;
45-55-60/685 Plaster thickness to Plasterboard Partitions and Lining;
and 45-55-60/715 Finish to plaster.

Execution

25-15-25/610 Installing framed partitions generally

Shared by: 25-15-25/135 Gypsum board partition system PUR_Int_01 type A; and 25-15-25/135 Gypsum board partition system type Arched Opening - Gallery 01.

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

25-15-25/630 Installing framing for partitions

Shared by: 25-15-25/135 Gypsum board partition system PUR_Int_01 type A; and 25-15-25/135 Gypsum board partition system type Arched Opening - Gallery 01.

- **Partition height:** Room height.
- **Layout:** Manufacturer Specification
- **Stud centres (nominal):** Manufacturer Specification
- **Setting out:**
 - **General:** Accurately align and plumb.
 - **Frame and stud positions:** Equal centres, to suit linings. Maintain sequence across openings.
- **Fixing perimeter framing to supporting structures:** Manufacturer Specification
- **Head deflection allowance (maximum):** 15mm
- **Openings:**
 - **General:** Form accurately.
 - **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.
 - **Services penetrations:** Allow for associated fire stopping.

25-15-25/650 Installing deflection heads

Shared by: 25-15-25/135 Gypsum board partition system PUR_Int_01 type A; and 25-15-25/135 Gypsum board partition system type Arched Opening - Gallery 01.

- **Deflection head detail:** Concealed deflection head. Gypframe Deep Flange Floor & Ceiling Channel. Refer to Gypwall Standard Details - Deflection head for 15mm downward movement + 60 mins fire resistance where required.
- **Fixing:** Do not fix boards to head framing channels. Do not fix head framing directly to soffit linings or metal decking.

25-15-25/690 Sealing gaps and air paths around partitions

Shared by: 25-15-25/135 Gypsum board partition system PUR_Int_01 type A; and 25-15-25/135 Gypsum board partition system type Arched Opening - Gallery 01.

- **Location of sealant:** To perimeter abutments and around openings. At board-to-board and board-to-metal frame junctions in pressurized shafts and ducts.
- **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.

45-55-60/620 Preparation for thin coat plaster

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

45-55-60/685 Plaster thickness to Plasterboard Partitions and Lining

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

45-55-60/715 Finish to plaster

- **Finish:** Smooth.
- **Appearance:**
 - **Smooth finish:**

Generally: A tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks. No crazing.

Standard of finish: To BS EN 13914-2, level 4.

25-25-10/110 Balustrade and guarding system

System outline

25-25-10/110 Balustrade and guarding system

- **System performance:** 25-25-10/205 Design submittals;
25-25-10/210 Design of balustrade and handrail systems generally;
and 25-25-10/220 Structural performance of handrails, balustrade and guarding systems.

- **System manufacturer:** Q-railing

Website address: www.q-railing.com

Telephone: 01782 740410

Fax: 0800 781 4246

Email: ukconsultant@q-railing.com

Address: Q-railing UK

Unit 707, Centre 500, Low field Drive

Wolstanton, Newcastle-under-Lyme

Staffordshire, ST5 0UU

- **System reference:** Easy Glass Slim
- **Base channel:**
 - **Top-mount channel:** - 16.6906.500.09 - Stainless Steel effect

Installed in accordance manufacturers guidance.

- **Glazing infill:** Type: 19mm toughened glass.

Installed in accordance manufacturers guidance.

- **Rubber seals:** - 19.6901.919.00 for 19mm toughened glass

Installed in accordance manufacturers guidance.

- **Capping rail:** - 14.6940.030.12

Installed in accordance manufacturers guidance.

All Cap rails to have rubber gaskets to suit extrusion width which varies in accordance with the thickness of the glass.

All cap rails to have pre-made accessories including 90 degree corner, adjustable angles, in-line connectors, which are compatible with Q-railing fittings.

- **Handrail:**
 - **Internal:** 25-25-10/135 Handrail system - Timber
- **Execution:** 25-25-10/610 Preconstruction survey;
25-25-10/640 Installation of handrail, balustrade and guarding systems generally;
and 25-25-10/650 Corrosion protection of dissimilar materials in handrail, balustrade and guarding systems.
- **System completion:** 25-25-10/810 Inspection of handrail, balustrade and guarding systems and 25-25-10/820 Documentation for handrail, balustrade and guarding systems.

System performance

25-25-10/205 Design submittals

Shared by: 25-25-10/110 Balustrade and guarding system; and 25-25-10/135 Handrail system - Brass type A.

- **Purpose:** Completion of handrail design
- **Submittals:** Fully dimensioned general arrangement drawings, plans, elevations and sections. Mounting and fixing details. Details of brass finish including samples. Technical information, calculations and manufacturers' literature.
- **Timing:** Min. 28 working days prior to commencement of fabrication.
- **Format:** PDF and DWG format drawings issued via A360.

25-25-10/210 Design of balustrade and handrail systems generally

Shared by: 25-25-10/110 Balustrade and guarding system; 25-25-10/135 Handrail system - Brass type A; and 25-10/135 Handrail system - Timber type B.

- **Detailed design:** Complete the design to meet structural and safety requirements of BS 6180 and in accordance with BS 8300.

25-25-10/220 Structural performance of handrails, balustrade and guarding systems

Shared by: 25-25-10/110 Balustrade and guarding system; 25-25-10/135 Handrail system - Brass type A; and 25-10/135 Handrail system - Timber type B.

- **Structure and associated features:** Complete the detailed design in accordance with BS 8300.
- **Horizontal uniformly distributed line loads on balustrade or handrail (maximum):** 1.5 kN/m.

Execution

25-25-10/610 Preconstruction survey

Shared by: 25-25-10/110 Balustrade and guarding system; and 25-25-10/135 Handrail system - Timber type B.

- **Procedure:** Before starting work on designated items take site dimensions, record on shop drawings and use to ensure accurate fabrication.
- **Designated items:** Staircases in B.07, B.22 and G.12
- **Primary support structure:** Carry out survey sufficient to verify that required accuracy and security of erection can be achieved.

It is understood that the texture of the existing concrete is more open than a conventional contemporary concrete but we do not have any information on its strength or how this would impact on bolt capacity.

It is the responsibility of the contractor to ensure that some pull out tests are undertaken on the bolts to verify their actual as-installed capacity. This is to be undertaken for typical instances where the following fixings will be required:

- Handrail brackets
- Metal balustrades
- Glass balustrades

In addition to the imposed line load that has been specified, it is imperative that PD 6688-1-1:2011 Recommendations for the design of structures to BS EN 1991-1-1 is followed for loads on infill panels.

- **Timing:** Before fabrication.

25-25-10/640 Installation of handrail, balustrade and guarding systems generally

Shared by: 25-25-10/110 Balustrade and guarding system; 25-25-10/135 Handrail system - Brass type A; and 25-25-10/135 Handrail system - Timber type B.

- **Standard:** In accordance with BS 6180

25-25-10/650 Corrosion protection of dissimilar materials in handrail, balustrade and guarding systems

Shared by: 25-25-10/110 Balustrade and guarding system; and 25-25-10/135 Handrail system - Timber type B.

- **Components:** Isolate using washers, sleeves or other suitable means to separate materials to avoid corrosion and or staining.

System completion

25-25-10/810 Inspection of handrail, balustrade and guarding systems

Shared by: 25-25-10/110 Balustrade and guarding system; 25-25-10/135 Handrail system - Brass type A; and 25-25-10/135 Handrail system - Timber type B.

- **Timing:** Two weeks prior to date when principal contractor expects work to be practically complete.
- **Period of notice (minimum):** Three working days.

25-25-10/820 Documentation for handrail, balustrade and guarding systems

Shared by: 25-25-10/110 Balustrade and guarding system; 25-25-10/135 Handrail system - Brass type A; and 25-25-10/135 Handrail system - Timber type B.

- **Contents:** Copies of structural design calculations and test reports. General product information. Installation information. Inspection and maintenance reports.
- **Number of copies:** 2
- **Submission:** Two weeks before date when principal contractor expects work to be practically complete.

☐ End of system

25-25-10/135 Handrail system - Brass - type A

System outline

25-25-10/135 Handrail system - Brass type A

- **System performance:** 25-25-10/205 Design submittals;
25-25-10/210 Design of balustrade and handrail systems generally;
and 25-25-10/220 Structural performance of handrails, balustrade and guarding systems.
- **System manufacturer:** Submit proposals.
- **Handrails:** 40mm dia. solid brass round tube handrail. Tube to be min 1.5mm thick.
- **Fixing to parent structure:** 10x40mm flat plate brass vertical support with max. 10x20mm return centrally, as shown on proposed detail drawings. Detail for fixings into existing clinker floor to be completed by Contractor/Fabricator.
- **Site finish:** Polished brass.
- **Samples required:** 25-25-10/305 Product samples.
- **Execution:** 25-25-10/640 Installation of handrail, balustrade and guarding systems generally.
- **System completion:** 25-25-10/810 Inspection of handrail, balustrade and guarding systems and 25-25-10/820 Documentation for handrail, balustrade and guarding systems.

System performance

25-25-10/205 Design submittals

Shared by: 25-25-10/110 Balustrade and guarding system; and 25-25-10/135 Handrail system - Brass type A.

- **Purpose:** Completion of handrail design
- **Submittals:** Fully dimensioned general arrangement drawings, plans, elevations and sections. Mounting and fixing details. Details of brass finish including samples. Technical information, calculations and manufacturers' literature.
- **Timing:** Min. 28 working days prior to commencement of fabrication.
- **Format:** PDF and DWG format drawings issued via A360.

25-25-10/210 Design of balustrade and handrail systems generally

Shared by: 25-25-10/110 Balustrade and guarding system; 25-25-10/135 Handrail system - Brass type A; and 25-25-10/135 Handrail system - Timber type B.

- **Detailed design:** Complete the design to meet structural and safety requirements of BS 6180 and in accordance with BS 8300.

25-25-10/220 Structural performance of handrails, balustrade and guarding systems

Shared by: 25-25-10/110 Balustrade and guarding system; 25-25-10/135 Handrail system - Brass type A; and 25-25-10/135 Handrail system - Timber type B.

- **Structure and associated features:** Complete the detailed design in accordance with BS 8300.
- **Horizontal uniformly distributed line loads on balustrade or handrail (maximum):** 1.5 kN/m.

Products

25-25-10/305 Product samples

- **Manufacturer:** Submit proposals.
- **Submittals:** Sample of tube and upright profiles.
- **Purpose:** For use as a reference sample.
- **Labelling:** Clearly label all submitted samples.
- **Timing:** Min. 28 working days prior to commencement of fabrication.

Execution

25-25-10/640 Installation of handrail, balustrade and guarding systems generally

Shared by: 25-25-10/110 Balustrade and guarding system; 25-25-10/135 Handrail system - Brass type A; and 25-10/135 Handrail system - Timber type B.

- **Standard:** In accordance with BS 6180

System completion

25-25-10/810 Inspection of handrail, balustrade and guarding systems

Shared by: 25-25-10/110 Balustrade and guarding system; 25-25-10/135 Handrail system - Brass type A; and 25-10/135 Handrail system - Timber type B.

- **Timing:** Two weeks prior to date when principal contractor expects work to be practically complete.
- **Period of notice (minimum):** Three working days.

25-25-10/820 Documentation for handrail, balustrade and guarding systems

Shared by: 25-25-10/110 Balustrade and guarding system; 25-25-10/135 Handrail system - Brass type A; and 25-10/135 Handrail system - Timber type B.

- **Contents:** Copies of structural design calculations and test reports. General product information. Installation information. Inspection and maintenance reports.
- **Number of copies:** 2
- **Submission:** Two weeks before date when principal contractor expects work to be practically complete.

☐ End of system

25-25-10/135 Handrail system - Timber - type B

System outline

25-25-10/135 Handrail system - Timber type B

- **System performance:** 25-25-10/210 Design of balustrade and handrail systems generally;
25-25-10/220 Structural performance of handrails, balustrade and guarding systems;
and .
- **System manufacturer:** Q-railing

Our website address: www.q-railing.com
Name: Q-railing
Telephone: 01782 740410
Fax: 0800 781 4246
Email: ukconsultant@q-railing.com
Address: Q-railing UK
Unit 707, Centre 500, Low field Drive
Wolstanton, Newcastle-under-Lyme
Staffordshire, ST5 0UU
- **System reference:** Naturail® & Bendywood®, modular Wooden balustrade system
- **Handrails:** 45-70-70/470 Wood handrails.
- **Fixing to parent structure:** Submit proposals.
- **Execution:** 25-25-10/610 Preconstruction survey;
25-25-10/630 Fabrication of balustrade and handrail systems generally;
25-25-10/640 Installation of handrail, balustrade and guarding systems generally;
and 25-25-10/650 Corrosion protection of dissimilar materials in handrail, balustrade and guarding systems.
- **System completion:** 25-25-10/820 Documentation for handrail, balustrade and guarding systems and
25-25-10/810 Inspection of handrail, balustrade and guarding systems.

System performance

25-25-10/210 Design of balustrade and handrail systems generally

Shared by: 25-25-10/110 Balustrade and guarding system; 25-25-10/135 Handrail system - Brass type A; and 25-25-10/135 Handrail system - Timber type B.

- **Detailed design:** Complete the design to meet structural and safety requirements of BS 6180 and in accordance with BS 8300.

25-25-10/220 Structural performance of handrails, balustrade and guarding systems

Shared by: 25-25-10/110 Balustrade and guarding system; 25-25-10/135 Handrail system - Brass type A; and 25-25-10/135 Handrail system - Timber type B.

- **Structure and associated features:** Complete the detailed design in accordance with BS 8300.
- **Horizontal uniformly distributed line loads on balustrade or handrail (maximum):** 1.5 kN/m.

Products

45-70-70/470 Wood handrails

- **Manufacturer:** Q-railing
- **Quality:** Free from decay, through splits and insect attack (including ambrosia beetle damage, unless permitted in the class/ grade specified). Planed all round.
- **Species:** - Beech, untreated wood (Indoor Use)
- **Appearance class:** Manufacturer's standard.
- **Size:** 42mm
- **Profile:** Circular.
- **Finish:** UV Oiled Finish to match flooring. Although different species to flooring, it is the intention to match the finish.

Contractor to provide 3no. options of test samples to agree final finish.

- **Accessories:**
 - **General:** - Handrail support for mounting to wall
- Handrail support for fastening on tube
- Handrail support for mounting on glass
- Adhesives (Special stainless-steel glue/Wood Glue)
 - **Brackets:** - I3.0111.042.12 - wall mounted hand rail bracket - product diameter 14mm, 304 satin, Handrail support for mounting to wall.
- I3011704212 - glass mounted hand rail bracket - product diameter 14mm, 304 satin, Handrail support for mounting to glass. Bespoke extended brackets required where fixed to glass.
 - **Angles and tees:** Bespoke connectors, elbows and end handrails to be bent in Beech with minimal visible joints.

Execution

25-25-10/610 Preconstruction survey

Shared by: 25-25-10/110 Balustrade and guarding system; and 25-25-10/135 Handrail system - Timber type B.

- **Procedure:** Before starting work on designated items take site dimensions, record on shop drawings and use to ensure accurate fabrication.
- **Designated items:** Staircases in B.07, B.22 and G.12
- **Primary support structure:** Carry out survey sufficient to verify that required accuracy and security of erection can be achieved.

It is understood that the texture of the existing concrete is more open than a conventional contemporary concrete but we do not have any information on its strength or how this would impact on bolt capacity.

It is the responsibility of the contractor to ensure that some pull out tests are undertaken on the bolts to verify their actual as-installed capacity. This is to be undertaken for typical instances where the following fixings will be required:

- Handrail brackets
- Metal balustrades
- Glass balustrades

In addition to the imposed line load that has been specified, it is imperative that PD 6688-1-1:2011 Recommendations for the design of structures to BS EN 1991-1-1 is followed for loads on infill panels.

- **Timing:** Before fabrication.

25-25-10/630 Fabrication of balustrade and handrail systems generally

- **Design:** Complete the detailed design and obtain approval before fabrication.
- **Frameworks:** Assemble and brace, including temporary members required for installation.
- **Contact between dissimilar metals:** Avoid.
- **Fixings:** Fully bolt together. Tighten bolts.
- **Temporary support:** Do not subject members to non-design loadings.

25-25-10/640 Installation of handrail, balustrade and guarding systems generally

Shared by: 25-25-10/110 Balustrade and guarding system; 25-25-10/135 Handrail system - Brass type A; and 25-25-10/135 Handrail system - Timber type B.

- **Standard:** In accordance with BS 6180

25-25-10/650 Corrosion protection of dissimilar materials in handrail, balustrade and guarding systems

Shared by: 25-25-10/110 Balustrade and guarding system; and 25-25-10/135 Handrail system - Timber type B.

- **Components:** Isolate using washers, sleeves or other suitable means to separate materials to avoid corrosion and or staining.

System completion

25-25-10/810 Inspection of handrail, balustrade and guarding systems

Shared by: 25-25-10/110 Balustrade and guarding system; 25-25-10/135 Handrail system - Brass type A; and 25-25-10/135 Handrail system - Timber type B.

- **Timing:** Two weeks prior to date when principal contractor expects work to be practically complete.
- **Period of notice (minimum):** Three working days.

25-25-10/820 Documentation for handrail, balustrade and guarding systems

Shared by: 25-25-10/110 Balustrade and guarding system; 25-25-10/135 Handrail system - Brass type A; and 25-25-10/135 Handrail system - Timber type B.

- **Contents:** Copies of structural design calculations and test reports. General product information. Installation information. Inspection and maintenance reports.
- **Number of copies:** 2
- **Submission:** Two weeks before date when principal contractor expects work to be practically complete.

□ End of system

25-50-20/I22 Refurbishment and upgrading of existing doors

System outline

25-50-20/I22 Refurbishment and upgrading of existing doors

- **System performance:** 25-50-20/220 Fire performance requirements to BS 476 and 25-50-20/218 Fire performance requirements to BS EN 13501.

- **Outline:**

The upgrade of an existing door's fire resistance to FD30s by the application of intumescent coating systems on both sides is to be undertaken by specialist and is to be certified by the manufacturer.

Glazing to be upgraded to Vetrotech Pyroswiss Glass for 30 mins Integrity.

Beading is to be decorative hardwood mouldings allow for minimum thickness to comply with Vetrotech standard details.

Refer to section 35-85-60/I80 Special coating system type A, B and C.

Doors to be Upgraded - to be read in conjunction with drawings 0620-0622.

Note: Special coatings only if door panels are more than 9mm.

For panels minimum thickness 6mm, intumescent paper faced with a veneer is to be adhered to the panels with an intumescent adhesive.

The beads/mouldings around the perimeter of the panels are to be treated with the intumescent coating as above. The veneer facing can be stained and finished to match existing.

- **System manufacturer:**

Envirograf

Intumescent Systems Ltd, Envirograf House, Barfreestone, Dover, Kent, CT15 7JG, United Kingdom

Email: sales@envirograf.com

Tel: +44 (0) 1304 842 555

Fax: +44 (0)1304 842 666

Vetrotech Saint-Gobain UK

Herald Way

Binley Industrial Estate

Coventry

CV3 2ZG

United Kingdom

+44 24 7654 7620

- **Ironmongery:**

The provision of new door furniture and ironmongery for the purpose of upgrading existing door's fire resistance is to include new hinges and new overhead or floor closer. Refer to Ironmongery schedule for products.

- **Piece in repair damaged or missing element:**

Scope:

- Letting in new timber to repair damage or missing elements.

Activities:

- Prepare by cutting back damaged timber to neat sound straight edges on all sides and at back to provide smooth clean surfaces for new timber to adhere to.
- Repairs are to be let into the surface to match existing profiles and should be carefully spliced-on so as

to retain as much original material as possible. This principle applies to piece in repairs to plain and carved elements.

- Repairs are to be finished by hand.
- Grain should be matched for direction and moisture content.
- Repairs are to be made from reclaimed material.
- Piece in sections are to be glued on using hot animal glue or p.v.a.

- **Secure fixing of loose element:**

Scope:

- The reattachment of dislodged or partially dislodged components.
- The refixing of elements whose screw fixings have loosened such as architraves and plinth blocks.
- The strengthening of background supports to loose and/or damaged elements.

Activities:

- Where components are loose due to screw threads having become stripped or the surrounding timber is split, the splits should be re-glued, the holes drilled to an appropriate diameter and dowels glued in. When dry, they should be drilled for pilot holes to suit the screw thread and clearance holes for the screw shanks to avoid further spitting, and slotted screws of appropriate gauge used to re-attach the components.

screws of appropriate gauge used to re-attach the components.

- The rectification of any deflection or sideways movement in panels is to be undertaken, where specified, in combination with other joinery repair operations.
- Fastenings and fixings should be non-ferrous, of brass or stainless steel. Screws should be counterbored and pelleted (finished flush) with appropriate clearance holes for the shank and tapping or pilot holes to suit the threads. Nails, panel pins and moulding pins must be of stainless steel with precise clearance holes, pre-drilled to avoid splitting, but to grip the heads, which must be carefully punched below the timber surface and filled.

- **Door leaf:**

- **Type:** Existing.
- **Glazing:** 45-25-28/445 Vision panels.
- **Perimeter seals or inserts:**

Envirograf - 10mm wide x 4mm deep intumescent seal is installed into the edge of the door. The Envirograf seal is the ISI4/s (product 100). Other size seals are available if replacing existing seals.

- System manufacturer:

Envirograf

14- 18 Heralds Way, South Woodham Ferrers, Chelmsford, Essex, CM3 5TQ, United Kingdom

Email: sales@envirograf.com

Tel: +44 (0) 1 304 842 555

Fax: +44 (0) 1304 842 666

- Door frame:

- Material: Existing.
- Fasteners: Existing.
- Seals or inserts: Intumescent Fire & Smoke Seals - Product Number: 100

- Filler between frame and reveal: Intumescent seal. Contractor to ensure all voids surrounding doors are fully sealed.

- Execution: To be installed by Envirograf Specialist

- System completion: 25-50-20/810 Documentation relating to doors, door assemblies and doorsets and 25-50-20/895 Verification of performance.

- Fire safety information and Fire performance evidence: to be submitted following installation.
- 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.

- Requirements: Certification and warranty for FD30s doors to ensure compliance with: Classification B/SI/d0 of European Standard EN13823, single burn test (SBI) and EN11925-2 (ignitability).

- **Repair or clean existing ironmongery:**

Scope:

- Works will cover the following ironmongery: Bolts, rim locks, mortice locks, knob sets, pull handles, escutcheons and miscellaneous door furniture.
- Paint stripping and cleaning. General overhaul and lubrication of moving parts, refixing loose parts, replacement of worn, missing or damaged parts and other specified repairs shown on the Door Schedules and drawings 0620-0622.
- Removal of old redundant ironmongery.

Clean :

- Means removal by chemical stripper and light wire brush.
- General Repair
- Take off part. Label and keep together with fixings and screws.
- Dismantle. Carefully record matched screws and threads. Thoroughly clean inside and out, including, where applicable, the removal of surface paint. Renew worn, broken or missing parts. Oil moving parts and reassemble.
- Clean bare metalwork and polish with 2 coats Beeswax polish. Polish should leave a thin film of wax to prevent oxidation.
- Refix part. Make screw holes hold where necessary.
- Repairs to ironmongery to be carried out by specialist approved by Project Architect.

- **Ease and operation, and reinstate operation:**

These operations require that ironmongery elements are restored to good working order to facilitate the opening, closing and locking of doors.

- **Supply and fit new ironmongery:**

Scope:

- The provision of new door furniture and ironmongery as described in the Door Schedule where previously there were none or existing elements have been damaged.
- Works will cover new hinges, door closers, bolts, rim locks, mortice locks, knob sets, pull handles, escutcheons and miscellaneous door furniture.

- **New Ironmongery:**

- The manufacture and supply of new ironmongery elements are to be undertaken by a specialist company approved by the Project Architect.
- Where stated, new replacement ironmongery will be required to match the appearance, finish and working characteristics of the original element or design pattern.

Installation:

- Generally: Assemble and fix carefully and accurately using fastenings and matching finish supplied by the ironmongery supplier.
- Prevent damage to ironmongery and adjacent surface.

- **Refurbishment of Brass Hinges:**

Scope:

- Works to be undertaken by specialist company or casting company.
- Subject to feasibility, worn bearing surfaces are to be made good by insertion of new cast brass elements.
- If found to be beyond repair, hinge is to be renewed to historic pattern with inclusion of hard washers on bearing surfaces.

- **Execution: 25-50-20/610 Preconstruction survey;**

25-50-20/620 Priming and sealing;

;

25-50-20/645 Installing fire resisting and smoke control doorsets, door assemblies or doors;

25-50-20/675 Installation of emergency and panic exit devices;
and .

- **System completion:** 25-50-20/810 Documentation relating to doors, door assemblies and doorsets
and 25-50-20/895 Verification of performance.
- **System facility management:** .

System performance

25-50-20/218 Fire performance requirements to BS EN 13501

- **Fire resistance:**
 - **Standard:** To BS EN 1634-1; classification to BS EN 13501-2 and To BS EN 1634-3.
 - **Integrity:** FD30s
- **Smoke leakage:**
 - **Ambient temperature smoke:** To BS EN 13501-2, Class S_a.

25-50-20/220 Fire performance requirements to BS 476

- **Standards:** To BS 476-22.
- **Fire resistance:**
 - **Integrity:** FD30s
- **Smoke control:**
 - **Ambient temperature smoke:** To BS 476-31-1.
- **Surface spread of flame:** As given in Building Regulations Eng Approved Document B2, Class 0.

Products

45-25-28/445 Vision panels

- **Manufacturer:** Vetrotech Saint-Gobain International
- **Third party certification:** Manufacturer's standard.
- **Resistance to fire:** FD30s
- **Frame:**
 - **Material:** To match existing
- **Glazing:** Vetrotech Saint-Gobain International
 - **Type:** Pyroswiss Glass - 30 mins Integrity
 - **Shape:** Glazing to match existing - Survey to be undertaken
- **Beading:**
 - **Type:**
Allow for decorative hardwood mouldings with a minimum thinness to comply with Vetrotech standard details. Exact mouldings to be agreed with architects - allow for 3no. samples.
 - **Material:**
Hardwood.
 - **Fixing:**
As per Vetrotech details and refer to drawings 0620-0622.

- **Finish:**
To match existing
- **Accessories:**
Timber glazing bars:
Allow for fixing surface mounted timber profiles to new glass - profiles to match existing.

Decorative lead overlay:
Allow for lead decorative overlay to both sides of glazing for doors: DG.04, DG.05, DG.07 and DG.06.
Decorative overlay to be fitted by specialist approved by Project Architect.

Full details of proposed sub-contractors including examples of relevant experience. Allow for 1 no. 200x200mm sample of glass with lead detailing for approval by architect prior to commencement of works.

Execution

25-50-20/610 Preconstruction survey

- **Procedure:**
Before starting work on designated items, take the site dimensions, record them on shop drawings and use them to ensure accurate fabrication.
- **Designated items:**
Refer to GA plans and door schedule
- **Primary support structure:**
Survey sufficiently to verify that the required accuracy and security of erection can be achieved.
- **Timing:**
Before fabrication.

25-50-20/620 Priming and sealing

- **Application:**
In accordance with Envirograf sec.
- **Wood surfaces inaccessible after installation:**
Prime or seal before fixing components.

25-50-20/645 Installing fire resisting and smoke control doorsets, door assemblies or doors

- **Standard:** In accordance with BS 8214 and In accordance with BS EN 16034.
- **Installer:**
A firm currently registered under a third party accredited fire door installer scheme.
- **Installation:**
In accordance with instructions supplied with the product conformity certificate, test report or engineering assessment.

25-50-20/675 Installation of emergency and panic exit devices

- **Installation:** Emergency exit devices in accordance with BS EN 179 and Panic exit devices in accordance with BS EN 1125.

System completion

25-50-20/810 Documentation relating to doors, door assemblies and doorsets

Shared by: 25-50-20/122 Refurbishment and upgrading of existing doors; and 25-50-20/125 Frame and door leaf system.

- **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.
- **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 and Test evidence must be in the name of the door or doorset manufacturer.
- **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.
- **Acoustic performance evidence:** Provide third party certification of product conformity for specified acoustic performance for sound attenuating door or doorset supplied.
- **Submittals:**
 - **Manufacturer's operation and maintenance instructions for the following products:**
Submit proposals.
 - **Record layout drawings indicating:** General arrangement drawings showing the location of doors, shutters or hatches. Drawings may be cross-referenced to schedule.
 - **Drawing and schedule format:** Electronic.
 - **Number of copies:** Two.

25-50-20/895 Verification of performance

Shared by: 25-50-20/122 Refurbishment and upgrading of existing doors; and 25-50-20/125 Frame and door leaf system.

- **Requirements:** Certification and warranty for FD30s doors
- **Submissions:**
 - **Format:** Electronic.
 - **Timing:** At completion of installation.

□ End of system

25-50-20/125 Frame and door leaf system

System outline

25-50-20/125 Frame and door leaf system

- **System performance:**
- **System manufacturer:** Envirograf:
14-18 Heralds Way, South Woodham Ferrers, Chelmsford, Essex, CM3 5TQ, United Kingdom
Email: sales@envirograf.com
Tel: +44 (0) 1 304 842 555
Fax: +44 (0) 1304 842 666
- **Door frame:**
 - **Material:** Existing.
 - **Fasteners:** Existing.
 - **Seals or inserts:** Intumescent Fire & Smoke Seals - Product Number: 100
- **Filler between frame and reveal:** Intumescent seal
- **Execution:** To be installed by Envirograf Specialist
- **System completion:** 25-50-20/810 Documentation relating to doors, door assemblies and doorsets and 25-50-20/895 Verification of performance.
- **System facility management:**

System completion

25-50-20/810 Documentation relating to doors, door assemblies and doorsets

Shared by: 25-50-20/122 Refurbishment and upgrading of existing doors; and 25-50-20/125 Frame and door leaf system.

- **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.
- **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 and Test evidence must be in the name of the door or doorset manufacturer.
- **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.
- **Acoustic performance evidence:** Provide third party certification of product conformity for specified acoustic performance for sound attenuating door or doorset supplied.
- **Submittals:**
 - **Manufacturer's operation and maintenance instructions for the following products:**
Submit proposals.
 - **Record layout drawings indicating:** General arrangement drawings showing the location of doors, shutters or hatches. Drawings may be cross-referenced to schedule.
 - **Drawing and schedule format:** Electronic.
 - **Number of copies:** Two.

25-50-20/895 Verification of performance

Shared by: 25-50-20/122 Refurbishment and upgrading of existing doors; and 25-50-20/125 Frame and door leaf system.

- **Requirements:** Certification and warranty for FD30s doors
- **Submissions:**
 - **Format:** Electronic.
 - **Timing:** At completion of installation.

☐ End of system

25-80-72/I50 Removal of existing plaster

System outline

25-80-72/I50 Removal of existing plaster

- **Substrate preparation:** 25-80-72/620 Removing defective existing render

Execution

25-80-72/620 Removing defective existing render

- **Render to be removed:** As shown in Drawing 4010
- **Removing defective render:**
 - **Finish:** Cut out to regular rectangular areas with straight edges.
 - **Horizontal and vertical edges:** Square cut or slightly undercut.
 - **Bottom edges to external render:** Do not undercut.
 - **Render with imitation joints:** Cut back to joint lines.
 - **Loose and friable material:** Cut out back to sound masonry.
 - **Broken and decayed brickwork:** Cut out and replace.
- **Cracks:**
 - **Fine hairline cracking and crazing:** Leave.
 - **Other cracks:** Cut out to a width of 75 mm (minimum).
- **Dust and loose material:** Remove from exposed substrates and edges.

□ End of system

25-85-45/140 Gypsum board wall lining system PUR_Int_02

System outline

25-85-45/140 Gypsum board wall lining system PUR_Int_02

- **System performance:** 25-85-45/207 Gypsum board linings system design requirements;
25-85-45/210 Structural performance of wall lining system;
and 25-85-45/290 Compliance with performance requirements.
- **System manufacturer:** British Gypsum
- **System reference:** Submit proposals.
- **Support:** 45-70-30/390 Steel frames for dry linings.
- **Linings:**
 - **Inner layers:** 12mm WBP Plywood
 - **Face layer:** 12.5mm Gyproc Wallboard
Moisture Resistant board to WCs and Kitchens.
 - **Fasteners:** Submit proposals.
- **Joint treatment:** Submit proposals.
- **Finish:** 45-55-60/370 Finish plaster to Plasterboard Partitions and Linings.
- **System accessories:** Contractor's design.
- **Execution:** 25-85-45/607 Installing gypsum board linings generally;
25-85-45/610 Preparation of substrates to receive wall linings;
;
25-85-45/630 Installing plasterboard to metal framing;
and 25-85-45/640 Installing plasterboard to timber.

System performance

25-85-45/207 Gypsum board linings system design requirements

- **Standard:** To BS 8000-8 and BS 8212.
- **Materials, components and details:** Use only the same as those tested and identified in assessment reports.

25-85-45/210 Structural performance of wall lining system

- **Strength grade:** To BS 5234-2, heavy duty.
- **Additional tests:** Wall cupboard (Annex L).
- **Other requirements:** Allow for weight of ceramic tiles (to WCs and Kitchens)
- **Wall lining height (maximum):** 3000 mm.

25-85-45/290 Compliance with performance requirements

- **Purpose:** Proof of compliance with specified performance
- **General requirements:** Include details of performance related to the particular elements of construction.

Products

45-55-60/370 Finish plaster to Plasterboard Partitions and Linings

Shared by: 20-10-10/110 Board suspended ceiling system; 25-15-25/135 Gypsum board partition system type Arched Opening - Gallery 01; and 25-85-45/140 Gypsum board wall lining system PUR_Int_02.

- **Manufacturer:** British Gypsum
- **Product reference:** Thistle Multi Finish
- **Execution:** 45-55-60/620 Preparation for thin coat plaster; 45-55-60/685 Plaster thickness to Plasterboard Partitions and Lining; and 45-55-60/715 Finish to plaster.

45-70-30/390 Steel frames for dry linings

- **Manufacturer:** British Gypsum
- **Standard:** To BS EN 14195.
- **Material:** Galvanized lightweight cold rolled steel.
- **Component types:**
 - **Wall linings:** Gypframe 60 I 70 'I' Stud
- **Execution:** 45-70-30/610 Installing steel frames for linings.

Execution

25-85-45/607 Installing gypsum board linings generally

- **Standard:** To BS 8000-8 and BS 8212.
- **Deviations and tolerances:**
 - **Vertical deviation (maximum):** ± 5 mm measured above or below the setting out position, in accordance with BS 8212 clause 3.3.2.
 - **Horizontal deviation (maximum):** ± 3 mm measured at the setting out level (ceiling or floor), in accordance with BS 8212 clause 3.3.2.
 - **Finished surfaces:** Maximum deviation band of 10 mm in accordance with BS 8212 clause 3.3.3.

25-85-45/610 Preparation of substrates to receive wall linings

- **Suitability of substrates:** Suitable to receive lining system. Remove redundant fixtures and services. Complete cutting, chasing and making good.
- **Sealing:** Seal all holes, gaps, service penetrations, perimeter junctions and around openings.
- **Adhesive fixings:** Prepare substrate to achieve effective bonding.
- **Contaminants:** Remove loose material, dirt, grease, oil, paper, etc.
- **Absorption:** Control by dampening, priming or applying bonding agents as necessary.

25-85-45/630 Installing plasterboard to metal framing

- **Wall linings:** Fix securely. Allow
- **Fixing centres (maximum):**
 - **Single layer boarding:** 300 mm centres generally and 200 mm centres at external angles.
 - **Multi-layer boarding:** Inner layers at 300 mm centres round perimeters; face layer at 300 mm centres.

- **Distance of screws from edges of boards (minimum):** 10 mm.
- **Screw heads:** Set in a depression. Do not break paper or gypsum core.

45-55-60/620 Preparation for thin coat plaster

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

45-55-60/685 Plaster thickness to Plasterboard Partitions and Lining

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

45-55-60/715 Finish to plaster

- **Finish:** Smooth.
- **Appearance:**
 - **Smooth finish:**

Generally: A tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks. No crazing.

Standard of finish: To BS EN 13914-2, level 4.

45-70-30/610 Installing steel frames for linings

- **Setting out:**
 - **General:** Accurately align framing, setting studs vertically.
 - **Frame centres (maximum):** Submit proposals.
 - **At openings:** Maintain sequence.
 - **Additional frames:** At corners and board edges.
- **Openings:**
 - **General:** Form accurately.
 - **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.
 - **Services penetrations:** Allow for associated fire stopping.
- **Studs:**
 - **Cavity between wall and studs (minimum):** 10mm - No greater than 15mm.
 - **Bracket centres (maximum):** Submit proposals.
 - **Perimeter framing:** Fix securely to supporting structures at maximum 600 mm centres.
 - **Intermediate bracing:** Permitted at mid height.

25-85-60/150 Multicoat plaster system - type A

System outline

25-85-60/150 Multicoat plaster system type A

- **Type:** A - Traditional lime plaster repair - Reinststate missing or damaged plain surface to masonry walls.
- **System performance:** 25-85-60/212 Smoothness and 25-85-60/220 Continuity of coats.
- **Substrate preparation:** 25-85-60/614 Special protection of historic plasterwork
- **Scope:** • The repair of unstable or missing areas of lime plaster that have resulted from structural movement or impact damage.
 - Plain surface damage generated by, and integral to, cracks and fractures.
 - Damage is typically confined to losses or defects in float and setting coats ranging from 20mm dia holes , small areas up to 500 x 500 mm and the reinstatement of whole wall areas / large sections of wall which require the full application of plaster coatings.
- **Activities:** • Test for stability of render coat on masonry backing. Cut back to masonry substrate where material is friable or unstable. Allow for repairs or replacement of damaged masonry background.
 - Apply sufficient lime based plaster coats (up to 3 no.) to the damaged zone. In accordance with the mortar analysis add animal hair in the correct proportion and gypsum if detected in analysis.
- **Plaster Analysis:** • Carry out material analysis of existing plaster layers to determine aggregate mode and mortar formulation.
 - Allow for three different sample locations covering each layer.
 - When the mixes are established, provide replication mixes in biscuit form for approval.
- **Beads:** Do not use plastering bead on corners as this will give a modern appearance.
- **Samples:** 25-85-60/610 Purpose made sample panels.
- **Execution:** 25-85-60/614 Special protection of historic plasterwork;
25-85-60/628 Reproduction of existing plaster mouldings;
25-85-60/746 Repairing cracks and steps in existing plaster mouldings;
and 25-85-60/748 Repairing hand-modelled plasterwork.

System performance

25-85-60/212 Smoothness

Shared by: 25-85-60/150 Multicoat plaster system type A and type B - Traditional lime plaster repair - Cracks to wall and ceiling surfaces including plain architectural features:.

- **Requirement:**
 - **Standard:** To BS EN 13914-2.
 - **Level of smoothness:** To match existing.

25-85-60/220 Continuity of coats

Shared by: 25-85-60/150 Multicoat plaster system type A and type B - Traditional lime plaster repair - Cracks to wall and ceiling surfaces including plain architectural features:.

- **All coats:** Continuous, without putlog holes and other breaks.

Execution

25-85-60/614 Special protection of historic plasterwork

Shared by: 25-85-60/150 Multicoat plaster system type A and type B - Traditional lime plaster repair - Cracks to wall and ceiling surfaces including plain architectural features:

- **General:** Do not damage or disturb retained plasterwork.
- **Protection methods:** Submit proposals.

25-85-60/628 Reproduction of existing plaster mouldings

Shared by: 25-85-60/150 Multicoat plaster system type A and type B - Traditional lime plaster repair - Cracks to wall and ceiling surfaces including plain architectural features:

- **Moulds and casts generally:** Prepare moulds from original plaster face. Reproduce profiles and details accurately.
- **Quantity of moulds:** Sufficient to complete the required number of casts and maintain a consistent appearance.
- **Casting material:** Plaster of Paris.
- **Inserts:** As necessary to give strength and rigidity to the mouldings and provide secure fixings.

25-85-60/746 Repairing cracks and steps in existing plaster mouldings

Shared by: 25-85-60/150 Multicoat plaster system type A and type B - Traditional lime plaster repair - Cracks to wall and ceiling surfaces including plain architectural features:

- **Preparation:** Remove applied ornament and keep for reuse. Cut back plasterwork each side of cracks. Replace defective timber laths. Remove dust.
- **Suction control:** Dampen repair area or apply suitable sealer.
- **Plaster:** Follow, and finish flush with, existing moulding profile.
- **Undercoat:** Key to receive final coat.
- **Applied ornaments:** Fix accurately with gypsum-based adhesive.

25-85-60/748 Repairing hand-modelled plasterwork

Shared by: 25-85-60/150 Multicoat plaster system type A and type B - Traditional lime plaster repair - Cracks to wall and ceiling surfaces including plain architectural features:

- **Armatures:** Configure to suit the relief and profile of the modelling.
- **New modelling:** Lime:marble dust:plaster of Paris plaster.

□ End of system

25-85-60/150 Multicoat plaster system - type B - Traditional lime plaster repair - Cracks to wall and ceiling surfaces including plain architectural features:

System outline

25-85-60/150 Multicoat plaster system type B - Traditional lime plaster repair - Cracks to wall and ceiling surfaces including plain architectural features:

- **System performance:** [25-85-60/212 Smoothness](#) and [25-85-60/220 Continuity of coats](#).
- **Substrate preparation:** [25-85-60/614 Special protection of historic plasterwork](#)
- **Scope:**
 - The repair of cracks in surfaces that have arisen from structural, impact or thermal movement.
 - The repair of cracks in soffit surfaces that have arisen from structural or thermal movement.
- **Activities:**
 - Carry out initial inspection to test stability of substrate.
 - Where the ceiling may have sagged or needs pinning, areas can be secured with screws, using flat washers to bear directly on to sound plaster base coats:
 - Cut plaster away from fixing site by carefully drilling with a drill connection with a diameter slightly larger than that of the washer. Avoid drilling too deeply. A second washer of brass gauze or perforated zinc or fine stainless steel mesh can also be used to afford a key for plastering over the stainless steel washer. Alternatively, a key can be created by coating with a suitable adhesive and sand. Make good areas using casting plaster to the level of the existing plaster.
 - Significant and moderate cracks 2-4mm, 4mm >.-
Significant and moderate cracks are to be cut out carefully using a fine blade and then blown out using a compressed air unit and fine nozzle attachment. Treat all exposed edges with a dilute solution of Plextol to prevent over suction and fill cracks in layers not exceeding 9mm using lime putty, aggregate (fine BS I 199), casting plaster 30% by volume.
 - Gauge the solution of fine plaster (Grade A) into the lime putty and aggregate just before application. Allow each coat to sufficiently dry before repeated applications keying the subsequent coat. The top coat is to be reduced in aggregate to produce a smoother, fine top coat.
 - Fine cracks, 1-2mm-
Fine cracks are to be filled with 'Toupret' Filler
 - NB: Hairline cracks will be filled under redecoration activities.
 - All cracks are to be worked back using a busk to be flush with the original plaster and residues sponge cleaned.
- **Beads:** Do not use plastering bead on corners as this will give a modern appearance.
- **Samples:** [25-85-60/610 Purpose made sample panels](#).
- **Execution:** [25-85-60/628 Reproduction of existing plaster mouldings](#); [25-85-60/746 Repairing cracks and steps in existing plaster mouldings](#); and [25-85-60/748 Repairing hand-modelled plasterwork](#).

System performance

25-85-60/212 Smoothness

Shared by: 25-85-60/150 Multicoat plaster system [type A](#) and [type B - Traditional lime plaster repair - Cracks to wall and ceiling surfaces including plain architectural features](#):

- **Requirement:**
 - **Standard:** To BS EN 13914-2.
 - **Level of smoothness:** To match existing.

25-85-60/220 Continuity of coats

Shared by: 25-85-60/150 Multicoat plaster system type A and type B - Traditional lime plaster repair - Cracks to wall and ceiling surfaces including plain architectural features:.

- **All coats:** Continuous, without putlog holes and other breaks.

Execution

25-85-60/614 Special protection of historic plasterwork

Shared by: 25-85-60/150 Multicoat plaster system type A and type B - Traditional lime plaster repair - Cracks to wall and ceiling surfaces including plain architectural features:.

- **General:** Do not damage or disturb retained plasterwork.
- **Protection methods:** Submit proposals.

25-85-60/628 Reproduction of existing plaster mouldings

Shared by: 25-85-60/150 Multicoat plaster system type A and type B - Traditional lime plaster repair - Cracks to wall and ceiling surfaces including plain architectural features:.

- **Moulds and casts generally:** Prepare moulds from original plaster face. Reproduce profiles and details accurately.
- **Quantity of moulds:** Sufficient to complete the required number of casts and maintain a consistent appearance.
- **Casting material:** Plaster of Paris.
- **Inserts:** As necessary to give strength and rigidity to the mouldings and provide secure fixings.

25-85-60/746 Repairing cracks and steps in existing plaster mouldings

Shared by: 25-85-60/150 Multicoat plaster system type A and type B - Traditional lime plaster repair - Cracks to wall and ceiling surfaces including plain architectural features:.

- **Preparation:** Remove applied ornament and keep for reuse. Cut back plasterwork each side of cracks. Replace defective timber laths. Remove dust.
- **Suction control:** Dampen repair area or apply suitable sealer.
- **Plaster:** Follow, and finish flush with, existing moulding profile.
- **Undercoat:** Key to receive final coat.
- **Applied ornaments:** Fix accurately with gypsum-based adhesive.

25-85-60/748 Repairing hand-modelled plasterwork

Shared by: 25-85-60/150 Multicoat plaster system type A and type B - Traditional lime plaster repair - Cracks to wall and ceiling surfaces including plain architectural features:.

- **Armatures:** Configure to suit the relief and profile of the modelling.
- **New modelling:** Lime:marble dust:plaster of Paris plaster.

□ End of system

25-85-97/140 Internal wall tiling system

System outline

25-85-97/140 Internal wall tiling system

- **System performance:** 25-85-97/220 Suitability of backgrounds for wall tiling systems;
25-85-97/230 Structural performance of wall tiling systems;
;
and 25-85-97/250 Aesthetic performance of wall tiling systems.
- **System manufacturer:** British Ceramic Tile
Head Office
Heathfield Industrial Estate
Newton Abbot
Devon
TQ12 6RF
- **Substrate preparation:** New plasterboard backgrounds and 45-35-64/340 Primers for plaster.
- **Tiles:**
 - **Types:** 45-80-95/310 Ceramic tiles
 - **Adhesives:** Contractor's design.
 - **Application:** Contractor's design.
- **Grout:** Contractor's design. To be light grey in colour - to match silicone used.
- **System accessories:** Straight edge brushed stainless steel trims to be used at any corners or exposed edges. To be Genesis Stainless Straight Edge (ESS) [Grade 316] or similar and approved.
- **Samples required:** 25-85-97/305 Product samples.
- **Execution:** 25-85-97/620 Suitability of backgrounds (minimum drying times);
25-85-97/625 Making good existing backgrounds generally;
25-85-97/635 Fixing and preparing board backgrounds;
25-85-97/797 Grouting;
and 25-85-97/799 Coloured grout.
- **System completion:** 25-85-97/805 Cleaning and maintenance of wall tiling systems and 25-85-97/810 Spares for wall tiling systems.

System performance

25-85-97/220 Suitability of backgrounds for wall tiling systems

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

25-85-97/230 Structural performance of wall tiling systems

- **Standard:** In accordance with BS 5385-4.
- **Requirement:** Adequately resist predicted level of abrasion and predicted impact loads.

25-85-97/250 Aesthetic performance of wall tiling systems

- **Colour and shade:** Unintended variations within tiles for use in each area/ room are not permitted.
- **Variegated tiles:** Mix thoroughly.

- **Visually defective tiles:** Do not use.
- **Final appearance:** Tiles and joints to have true, regular appearance when viewed under final lighting conditions.

Products

25-85-97/305 Product samples

- **Submittals:** Tile sample
- **Purpose:** For use as a reference sample - to be agreed with client.
- **Labelling:** Clearly label all submitted samples.
- **Timing:** At least two weeks prior to placing order.

45-35-64/340 Primers for plaster

- **Manufacturer:** Contractor's choice.
- **Composition:** Contractor's choice.

45-80-95/310 Ceramic tiles

- **Manufacturer:** British Ceramic Tile Ltd
- **Product reference:** BCT 43065
- **Standard:** Manufacturer's standard.
 - **Group:** Manufacturer's standard.
- **Colour:** White gloss
- **Finish:** Manufacturer's standard.
- **Size:** 200 x 100
- **Thickness:** 9mm
- **Surface:** Manufacturer's standard.
- **Recycled content:** Manufacturer's standard.
- **Execution:** 45-80-95/610 Fixing tiles.

Execution

25-85-97/620 Suitability of backgrounds (minimum drying times)

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

25-85-97/625 Making good existing backgrounds generally

- **Defective areas of existing substrates:**
 - **Loose or hollow areas of concrete:** Cut out.
 - **Loose, soft, friable or badly cracked areas of plaster:** Remove. Cut back to straight horizontal and vertical edges.

- **Defective areas of glazed brick:** Cut out.
- **Loose or hollow-sounding areas of tiling:** Remove.
- **Paint with unsatisfactory adhesion:** Remove so as not to impair bedding adhesion.
- **Brick walls:** Flush point joints.
- **Efflorescence, laitance, dirt and other loose material:** Remove.
- **Organic growth:** Remove.
- **Deposits of oil, grease, formwork release agents and other surface residues:** Remove.
- **Soft or unsound adhesive residues:** Remove without damaging backgrounds.
- **Tile, paint and other non-porous surfaces:** Clean.
- **Wet backgrounds:** Dry before tiling.

25-85-97/635 Fixing and preparing board backgrounds

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

25-85-97/797 Grouting

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

25-85-97/799 Coloured grout

- **Staining of tiles:** Not permitted.
- **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.

45-80-95/610 Fixing tiles

- **Setting out:** Minimize number of cut tiles, maximize size and locate unobtrusively. To be laid in a brick stretcher bond.
- **Tile cutting:** Neat and accurate.
- **Fixing:** Fully adhere to substrate.
- **Surplus bedding material in joints and on tile faces:** None permitted.
- **Joints in tiling:**
 - **General:** True to line, continuous and without steps. Horizontal, vertical and aligned round corners.
 - **Joints in adjoining floors, walls and skirtings:** Align.
 - **Joint width:** 3 mm.
 - **Joint depth:** Full thickness of tile.
- **Flatness and regularity of tiling:**
 - **Sudden irregularities:** Not permitted.
 - **Deviation of surface:**
 - Measurement:** From underside of a 2 m straightedge placed anywhere on surface.
 - Obstruction by tiles:** None.
 - Gap (maximum):** 3 mm.
 - **Deviation between tile surfaces either side of any joint (maximum):**

Joints less than 6 mm wide: 1 mm.

- **Movement joints:** Do not tile over structural movement joints.

System completion

25-85-97/805 Cleaning and maintenance of wall tiling systems

- **Standards:** In accordance with the recommendations of BS 5385-1, BS 5385-2, BS 5385-4 and The Tile Association publication The cleaning of ceramic tiles.
- **Cleaning materials and methods:**
 - **Generally:** Avoid the use of chemicals which may attack or damage tiles, grouts, adhesives or bedding.
 - **Glazed tiles:** Use pH neutral, non-abrasive detergents.

25-85-97/810 Spares for wall tiling systems

- **Spares to be supplied:** 10no. tiles to be provided as spares to replace any damaged tiles in the future.
- **Timing:** On completion of system.

☐ End of system

25-90-35/130 Glazing film system

System outline

25-90-35/130 Glazing film system

- **Film:** 45-65-50/332 Plastics window films.
- **System completion:** 25-90-35/820 Documentation.

Products

45-65-50/332 Plastics window films

- **Manufacturer:** The Window Film Company UK Ltd
- **Product reference:** Frostbrite® Window Film
- **Size:** To suit window sizes. No joints permitted.
- **Material:** Manufacturer's standard.

System completion

25-90-35/820 Documentation

- **Maintenance and replacement instructions:**
 - **Product information:** Include product description, date of purchase, performance characteristics, application (suitability for use), method of replacement, and cleaning and maintenance requirements.
 - **Format:** To be included within O+M Manual

☐ End of system

25-90-85/160 Plastics studded membrane internal wall damp-proofing system

System outline

25-90-85/160 Plastics studded membrane internal wall damp-proofing system

- **System performance:** [25-90-85/210 Design of wall damp-proofing systems](#) and [25-90-85/240 Condition on completion of plastics studded membrane damp-proofing](#), [25-90-85/201 Requirements](#)
- **System manufacturer:** Newton Waterproofing Systems.

Address:
Newton House,
17-20 Sovereign Way,
Tonbridge,
Kent,
TN9 1RH

To be installed by a Newton approved installer.

- **Survey and Completion of design:** Approved installer to undertake survey following completion of strip-out and to complete design based upon findings.

Specification requirements have been developed on the assumption that 2no. sump/pump systems will be required however approved installer to confirm on site and provide cost saving if not required.

- **Damp proof membranes:** Newton 508 and 508 mesh, to the walls and a drainage channel, Newton Basedrain, at the vulnerable wall/floor junction with Newton 701 Epoxy Resin to the disturbed floor perimeter.

Design to be completed by Newton approved installer

- **System accessories:** Submit proposals.
- **Execution:** [25-90-85/630 Preparation of substrates for studded sheet damp-proofing to walls](#); [25-90-85/632 Installing studded sheets for damp-proofing to walls](#); and .
- **System completion:** [25-90-85/810 Inspection of damp-proof coatings and membranes](#).

System performance

25-90-85/201 Requirements

- **System:** In order that the waterproofing system meets the requirements of Grade 3 of BS8102, we propose that the basement be waterproofed with a drained system, categorised as a Type 'C' installation in BS8102.
- **Scope of Works:** I. WORK TO BE COMPLETED BY MAIN CONTRACTOR:
 - Provide mains electricity (240v) and clean water.
 - Remove any internal stud partition walls, shelving, services, machinery and stock.
 - Remove any existing wall plaster if required.
 - Remove all fixtures and fittings preventing full unimpeded access to the walls and floor surface, including radiators, pipe work etc.
 - Form two sump holes to accept the Titan Pro pump system and cast the Titan Pro Green sump

chamber (with Newton 303 Polyproof hydrophilic water bar) into the level slab at the correct height. (Sump chamber to be delivered to site by Stonehouse Basements with bespoke lid)

- Form a rebate in the floor perimeter to receive the Basedrain. (100mm wide X 100mm deep) - Refer to drawing 0408. Allow for Screed to cover modified with Newton 908 Liquabond to form non-shrink repair. Allow for Newton 700 Floor System.

NOTE: The above item assumes that the existing concrete floor is in a sound and stable condition and has sufficient thickness to be able to accept the above work. (The slab should be a minimum of 150mm thick). If during the course of the work it is found that the existing floor is not in a suitable condition to accept the specified works, work should stop and the client informed immediately. Any necessary strengthening works can be specified at this time. These works however may require the involvement of a structural engineer.

2. WORK TO BE COMPLETED BY APPROVED NEWTON INSTALLER:

- Conduct flood test to ensure the floor slab is level, builder to level if necessary. When a channel has been broken in the existing slab, any punctures of the slab must be repaired with Premix No. 5 or Waterplug. Line channel with Vandex BB75.
- Install a studded high density polyethylene membrane Newton 508 /503 Mesh waterproofing system to the manufacturers specification to the walls as shown on enclosed plan.
- Lay Basedrain in 20mm river washed stone set in place and make good.
- Tape joints and link to Chamber with Basedrain Channel connectors.
- Fit two NP400 sump pumps in each chamber and connect each to fused spurs.
- Fill levels around chamber with river washed stone.
- Run exhaust pipework and link to appropriate drainage.
- Apply Newton 701 Epoxy Resin over the disturbed floor area only.
- Supply and fit The Newton Control Panel, 1200 Converter and Battery Back Up System.
- Fully commission the pumping system.
- LEAVE SITE CLEAN AND TIDY

3. WORK TO BE COMPLETED BY MAIN CONTRACTOR

- If required, reinstate services taking great care not to damage the membrane.
 - Reinstall fixtures and fittings as required.
 - Lay floor coverings as required.
 - Form lining system to provide painted plaster finish.
 - Electrician to provide two separately supplied radial circuits in close proximity to the sump chamber, each controlling a 13 amp switched fused spur with neon indicator for connection of sump pumps. MCB to be 'C type' to allow for initial start-up surge.
- Please read the important notes attached to this specification.

IMPORTANT NOTES:

It is important that the waterproof system is not punctured in any way. If a fixing to the wall is required, advice should be sought from approved installer .

Always inform approved installer if the system is damaged or disturbed after completion, because repair will be necessary.

- **Guarantee:** The Waterproofing works are to be Guaranteed for minimum of 10 years.

25-90-85/210 Design of wall damp-proofing systems

- **Design:** Complete the design of the above ground wall damp-proofing system.
- **Standard:** In accordance with relevant parts of CP 102, section 3.
- **Proposals:** Submit drawings, technical information, and manufacturers' literature.

25-90-85/240 Condition on completion of plastics studded membrane damp-proofing

- **Appearance:** Neat, smooth and fully supported, dressed well into abutments, window reveals and around intrusions.
- **Condition:** Undamaged.
- **Required condition:** Impervious to passage of water not under pressure.

Execution

25-90-85/630 Preparation of substrates for studded sheet damp-proofing to walls

- **Organic materials:** Remove organic materials built in or fixed to walls.
- **Previous coatings and contaminants:** Remove, including dirt, dust, efflorescence, mould, oil, paint and plaster.
- **Evidence of cracking or loose or weak areas of substrate:** Notify.
- **Filling cavities:**
 - **Preparation:** Remove loose material.
 - **Finished level:** Flush with existing surface.
- **Repointing joints:**
 - **Preparation:** Rake out to a depth of 12 mm (minimum). Remove loose material.
 - **Finished level:** Flush with existing surface.

25-90-85/632 Installing studded sheets for damp-proofing to walls

- **Installation in accordance with third party certification:** As product Agrément certificate for proposed application.
- **Fixing:**
 - **Method:** Mechanically fix.
 - **Fixing centres:** Submit proposals.
- **Joints:**
 - **Laps (minimum):** Submit proposals.
 - **Jointing:** Submit proposals.

System completion

25-90-85/810 Inspection of damp-proof coatings and membranes

- **Give notice:** Before covering any part of damp-proof coatings or membranes with overlying construction.

☐ End of system

30-05-40/140 Internal ramp system

System outline

30-05-40/140 Internal ramp system

- **System manufacturer:** Contractor's choice.
Ramp to Platform Lift in Gallery 01 (G.05)
Ramp to have 1 in 12 slope giving access to Platform Lift.
Finish to be continuation of timber floor, laid in brick format horizontally across ramp on 24mm WBP plywood deck laid on softwood firrings.
Allow for solid oak nosing to edge of ramp to match floor finish.
Vertical sides to ramp to have oak finish to match flooring.
- **Flooring:**
 - **Material:** To match floor finish of Gallery 01 (G.05). Ref. 20-55-95/195
 - **Applied anti-slip treatment:** Brass recessed strips at approx. 100mm centres to match stair nosing.
- **Ramp support:** 45-60-90/360 Softwood sections.
- **Balustrade guarding:** Extension of Staircase brass handrails to either side of ramp at 900mm height. Refer to drawing for further details.
- **Adhesive:** Refer to floor finish specification. Ref. 20-55-95/195
- **Assembly fasteners:** Contractor's design.
- **Samples required:** .
- **Execution:** 30-05-40/640 Moisture content of architectural ramp and stair system;
;
and .
- **System completion:** .

Products

45-60-90/340 Timber procurement

Shared by: 45-45-95/370 Engineered wood (wood veneer) boards; 45-60-90/360 Softwood sections; 45-75-95/340 Wood architraves; and 45-80-98/305 Wood blocks.

- **Timber source:**
 - **General requirements:** Obtain from well managed forests and/ or plantations.
 - **Legality and sustainability:** Sustainability requirements set in UK Government timber procurement policy (UKTPP) and as outlined in the supporting Timber Procurement Advice Note (TPAN).
 - **Documentation to be submitted:** Documentary evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-derived products.
- **Certification scheme:** Forest Stewardship Council (FSC) and In accordance with UK Government timber procurement policy (UKTPP).
- **Timing of submissions:** Prior to supplier order acceptance.

45-60-90/360 Softwood sections

- **General requirements:** 45-60-90/340 Timber procurement.

- **Supplied by:** Contractor's choice.
- **Timber:**
 - **Species:** Softwood to BS EN 942, Table NA. I.
 - **Quality:** Free from decay, through splits and insect attack (including ambrosia beetle damage, unless permitted in the class or grade specified).
 - **Appearance class:** Contractor's choice.
 - **Strength class:** Contractor's choice.
 - **Moisture content on delivery:** 9–13%.
 - **Warping (maximum):** To BS EN 14081-1 and BS 4978.
- **Treatment:**
 - **Preservative:** To Wood Protection Association Commodity Specification C8.
 - **Fire retardant:** To Wood Protection Association Commodity Specification FR2, Type D1.
- **Finish:** Planed all round.

Execution

30-05-40/640 Moisture content of architectural ramp and stair system

Shared by: 30-05-40/140 Internal ramp system; and 30-05-40/145 Internal stair system type Gallery 01 Stairs.

- **Temperature and humidity:** Monitor and control internal conditions to achieve specified moisture content in wood components at time of installation.
- **Moisture content at time of installation:** Typically 10% +/- 2% moisture.

☐ End of system

30-05-40/145 Internal stair system - type Gallery 01 Stairs

System outline

30-05-40/145 Internal stair system type Gallery 01 Stairs

- **System performance:** 30-05-40/210 Design of internal stair systems generally;
30-05-40/220 Design of straight internal stair systems;
and .
- **System manufacturer:** Contractor's choice.
- **Treads:**
 - **Material:** 30-05-40/515 Custom made dressed timber stair treads and risers.
 - **Applied stair nosings:** 45-20-35/301 Engineered timber nosing to match flooring - Including 3 brass anti-slip insets
 - **Applied anti-slip treatment:** 3no. brass strip inserts in hardwood nosing.
 - **Tread supports:** Timber support structure to Structural Engineers Specification.
- **Risers:** Custom made dressed timber stair treads and risers.
- **Stair support:** Refer to Structural Engineers Specification.
- **Adhesive:** To be fully bonded to the sub-floor using Marldon MXA200 adhesive
- **Assembly fasteners:** Refer to Structural Engineers Specification.
- **Execution:** 30-05-40/620 Installation of stair systems generally;
30-05-40/640 Moisture content of architectural ramp and stair system;
30-05-40/670 Applying anti-slip treatments;
and .

System performance

30-05-40/210 Design of internal stair systems generally

- **Design standard:** Complete the design to meet structural and safety requirements in accordance with BS 5395-1.
- **Category of loaded area:** To BS EN 1991-1-1, category C.

30-05-40/220 Design of straight internal stair systems

- **Format:** Straight with closed riser.
- **Total rise:** Refer to drawing 0401.
- **Total going:** Refer to drawing 0401.
- **Tread width (minimum):** Refer to drawing 0401.
- **Riser height (maximum):** Refer to drawing 0401.

Products

45-20-35/301 Engineered timber nosing to match flooring - Including 3 brass anti-slip insets

- **Manufacturer:** Havwoods - www.havwoodsaccessories.com

- **Material:** Bespoke Solid European Oak grooved nosing with 3no. brass strips inserted. Refer to Drawing 0401 for details. To be securely fixed with secret fixings. Smoked, Distressed & White UV Oiled finish to match floor.

Custom made products

30-05-40/515 Custom made dressed timber stair treads and risers

- **Manufacturer:** Havwoods Limited
- **Quality:** Free from decay, through splits and insect attack (including ambrosia beetle damage, unless permitted in the class/ grade specified). Planed all round.
- **Species:** European Oak
- **Appearance class:** Grade: Rustic
- **Size (l x w x d):** 600mm x 120mm 13mm
- **Tread surface:** 4-sided bevelled edge with tongue & groove. Boards laid in brick bond layout along length of stairs.
- **Riser surface:** 4-sided bevelled edge with tongue & groove. Boards laid in brick bond layout along length of stairs.
- **Finish:** Smoked, Distressed & White UV Oiled - Boards are prefinished prior to site delivery. Please refer to manufacturers' installation and maintenance guidelines for recognised good practice.

Execution

30-05-40/620 Installation of stair systems generally

- **Standard:** In accordance with BS 5395-1

30-05-40/640 Moisture content of architectural ramp and stair system

Shared by: 30-05-40/140 Internal ramp system; and 30-05-40/145 Internal stair system type Gallery 01 Stairs.

- **Temperature and humidity:** Monitor and control internal conditions to achieve specified moisture content in wood components at time of installation.
- **Moisture content at time of installation:** Typically 10% +/- 2% moisture.

30-05-40/670 Applying anti-slip treatments

- **Treads:** Engineered timber nosing to match flooring - Including 3 brass anti-slip insets

☐ End of system

30-05-40/145 Internal stair system - type Refurbishment of existing stairs

System outline

30-05-40/145 Internal stair system type Refurbishment of existing stairs

- **Outline scope:** Refurbishment of existing Stairs to B.02, B.07 and B.23.

Works to include new floor finish, new handrails and nosings.

For details of handrails, refer to Spec Ref. 25-25-10/135 - Timber

- **Treads:**
 - **Material:** Tread finish as per floor finish Drawing 0500.
Upon removal of existing floor covering, tread to have a 6mm layer of latex levelling screed + floor covering installed as per floor finish specification 20-55-75/165 Type PUR_FL_03.
 - **Applied stair nosings:** 45-20-35/390 Rigid stair nosings
- **Risers:** To match floor finish as per Drawing 0500.
Specification Ref. 20-55-75/165 Type PUR_FL_03.

Products

45-20-35/390 Rigid stair nosings

- **Manufacturer:** Quantum Flooring Solutions, a trading name of Quantum Profile Systems Ltd
- **Product reference:** QR-SFI 53 Flat Front Stair Nosing
- **Base section:**
 - **Material:** Aluminium.
 - **Finish:** Manufacturer's standard.
- **Size:**
 - **Rise x going:** 55 x 55 mm.
 - **Gauge:** 2mm
- **Inserts:**
 - **Material:** Manufacturer's standard.
 - **Colour:** Colour TBC
- **Installation:** Nosing to be installed as per manufacturers instructions.

□ End of system

35-05-35/I35 General fittings, furnishings and equipment system - type Entrance Barrier Matting

System outline

35-05-35/I35 General fittings, furnishings and equipment system type Entrance Barrier Matting

- **Furnishings:** 45-35-35/420 Entrance matting
- **Samples required:** Sample of product required prior to placing of order for agreement with Architect.

Products

45-35-35/420 Entrance matting

- **Manufacturer:** COBA Flooring or similar and approved.
- **Product reference:** CM050003C
- **Arrangement:** Inset internally within existing metal frame.
- **Dimensions:** 23mm thick.
Dimensions as shown on 0500.
- **Material:** Coconut husk fibres (3Kg yarn per m2) with anti-slip PVC backing.
- **Pattern:** Manufacturer's standard.
- **Colour:** Natural
- **Integral accessories:** As existing.

☐ End of system

35-05-35/135 General fittings, furnishings and equipment system - type Refreshments Kitchen Units - Room B.14

System outline

35-05-35/135 General fittings, furnishings and equipment system type Refreshments Kitchen Units - Room B.14

- **System performance:** .
- **System manufacturer:** Premier Kitchens and Bathrooms
- **Fittings:** 45-35-80/340 Kitchen storage units and 45-35-95/315 Worktops.
- **Warranty:** 15 Year Cabinet Guarantee
- **Execution:** 35-05-35/610 Applying sealant bedding and pointing.

Products

45-35-80/340 Kitchen storage units

Shared by: 35-05-35/135 General fittings, furnishings and equipment system type Staff Kitchen (Accessible) and type Refreshments Kitchen Units - Room B.14.

- **Manufacturer:** Premier Kitchens and Bathrooms
- **Form:** Refer to dimensions on 1:20 scale plan.

Appliance housings;
Perimeter base units;
and Perimeter wall units.
- **Dimensions:** To BS EN 1116.
- **Surface finishes:** Durability to BS 6222-3.
- **Doors:**
 - **Material:** 22mm thick MDF gloss lacquered flat slab door with integrated handle
 - **Finish and colour:** White W980 cabinet for the White Gloss door
 - **Edges:** Gloss lacquered - White
 - **Hardware:** Manufacturer's standard with soft door closers.
- **Side panels, plinths and pelmets:**
 - **Material:** Manufacturer's standard.
 - **Finish and colour:** Gloss lacquered - White
 - **Edges:** Gloss lacquered - White
- **Integral accessories:** Legs and plinths;
Sinks;
and Worktops.
- **Execution:** 45-35-80/620 Installing storage units.

45-35-95/315 Worktops

Shared by: 35-05-35/135 General fittings, furnishings and equipment system type Staff Kitchen (Accessible) and type Refreshments Kitchen Units - Room B.14.

- **Manufacturer:** Premier Kitchens and Bathrooms

- **Standard:** Durability to BS 6222-3.
- **Material:** Laminate.
- **Finish:** Axiom Paloma Dark Grey - TBC and agreed with client.
- **Dimensions:**
 - **Plan size:** Refer to dimensions on 1:20 scale plan.
 - **Thickness:** 38mm
- **Exposed edges:**
 - **Profile:** Exposed edges to be finished with edging strip to match colour.
 - **Material:** Laminate.
- **Integral accessories:** Exposed edges to be finished with edging strip to match colour.
- **Execution:** 45-35-95/610 Installing worktops and counter tops.

Execution

35-05-35/610 Applying sealant bedding and pointing

Shared by: 35-05-35/135 General fittings, furnishings and equipment system type Staff Kitchen (Accessible) and type Refreshments Kitchen Units - Room B.14.

- **Application:** One part silicone sealant.
- **Bedding:** Bed sinks to top of worktops.
- **Pointing:** Joints between worktop and splash backs.
Joints between units and floor finish.

45-35-80/620 Installing storage units

- **General criteria:** Fitted to be stable, secure and level, with no unplanned gaps between adjacent units and between units and building fabric.

45-35-95/610 Installing worktops and counter tops

- **General criteria:** Fitted to be stable, secure and level, with no unplanned gaps between adjacent units and between units and building fabric.
- **Supports:** Contractor's choice.

☐ End of system

35-05-35/135 General fittings, furnishings and equipment system - type Shelving

System outline

35-05-35/135 General fittings, furnishings and equipment system type Shelving

- **System performance:** .
- **Fittings:** 45-35-80/320 Shelves

Products

45-35-80/320 Shelves

- **Manufacturer:** Spur Shelving
Storage Solutions Ltd.
Linden Close,
School Lane,
Great Torrington,
Devon
EX38 7AL
- **Dimensions:**
 - **Depth:** 370mm
 - **Width:** 1000mm
 - **Height:** 1980mm
- **Integral accessories:** Shelving to Cupboards accessed from B.08 and B.14

Allow for 6no. shelves to each cupboard.

Shelves to consist of:

- Spur® Steel-Lok Two section 1980mm Uprights
- Spur® Steel-Lok 370mm Cantilever Heavy Duty Brackets.
- Spur ® Steel-Lok Steel Shelf 1000x370mm

Installation to manufacturers instructions. Colour white.

- **Execution:** 45-35-80/610 Installing shelves and shelf units.

Execution

45-35-80/610 Installing shelves and shelf units

- **General criteria:** Fitted to be stable, secure and level, with no unplanned gaps between adjacent units and between units and building fabric.

□ End of system

35-05-35/135 General fittings, furnishings and equipment system - type Staff Kitchen (Accessible)

System outline

35-05-35/135 General fittings, furnishings and equipment system type Staff Kitchen (Accessible)

- **System performance:** .
- **System manufacturer:** Premier Kitchens and Bathrooms
- **Fittings:** 45-35-80/340 Kitchen storage units and 45-35-95/315 Worktops.
- **Warranty:** 15 Year Cabinet Guarantee
- **Execution:** 35-05-35/610 Applying sealant bedding and pointing.

Products

45-35-80/340 Kitchen storage units

Shared by: 35-05-35/135 General fittings, furnishings and equipment system type Staff Kitchen (Accessible) and type Refreshments Kitchen Units - Room B.14.

- **Manufacturer:** Premier Kitchens and Bathrooms
- **Form:** Refer to dimensions on 1:20 scale plan.

Appliance housings;
Perimeter base units;
and Perimeter wall units.
- **Dimensions:** To BS EN 1116.
- **Surface finishes:** Durability to BS 6222-3.
- **Doors:**
 - **Material:** 22mm thick MDF gloss lacquered flat slab door with integrated handle
 - **Finish and colour:** White W980 cabinet for the White Gloss door
 - **Edges:** Gloss lacquered - White
 - **Hardware:** Manufacturer's standard with soft door closers.
- **Side panels, plinths and pelmets:**
 - **Material:** Manufacturer's standard.
 - **Finish and colour:** Gloss lacquered - White
 - **Edges:** Gloss lacquered - White
- **Integral accessories:** Legs and plinths;
Sinks;
and Worktops.
- **Execution:** 45-35-80/620 Installing storage units.

45-35-95/315 Worktops

Shared by: 35-05-35/135 General fittings, furnishings and equipment system type Staff Kitchen (Accessible) and type Refreshments Kitchen Units - Room B.14.

- **Manufacturer:** Premier Kitchens and Bathrooms

- **Standard:** Durability to BS 6222-3.
- **Material:** Laminate.
- **Finish:** Axiom Paloma Dark Grey - TBC and agreed with client.
- **Dimensions:**
 - **Plan size:** Refer to dimensions on 1:20 scale plan.
 - **Thickness:** 38mm
- **Exposed edges:**
 - **Profile:** Exposed edges to be finished with edging strip to match colour.
 - **Material:** Laminate.
- **Integral accessories:** Exposed edges to be finished with edging strip to match colour.
- **Execution:** 45-35-95/610 Installing worktops and counter tops.

Execution

35-05-35/610 Applying sealant bedding and pointing

Shared by: 35-05-35/135 General fittings, furnishings and equipment system type Staff Kitchen (Accessible) and type Refreshments Kitchen Units - Room B.14.

- **Application:** One part silicone sealant.
- **Bedding:** Bed sinks to top of worktops.
- **Pointing:** Joints between worktop and splash backs.
Joints between units and floor finish.

45-35-80/620 Installing storage units

- **General criteria:** Fitted to be stable, secure and level, with no unplanned gaps between adjacent units and between units and building fabric.

45-35-95/610 Installing worktops and counter tops

- **General criteria:** Fitted to be stable, secure and level, with no unplanned gaps between adjacent units and between units and building fabric.
- **Supports:** Contractor's choice.

☐ End of system

35-05-50/150 Minor joinery system repairs

System outline

35-05-50/150 Minor joinery system repairs

- **Type:** Joinery Repairs
- **Skirtings:** 45-75-95/345 Wood skirtings.
- **Decorative trims:** 45-75-95/340 Wood architraves.
- **Fasteners:** 45-50-60/440 Wood screws.
- **Execution:** 35-05-50/601 Remove and reconsolidate cracked filler and flaking paint joinery. 35-05-50/602 Gluing unstable split element. 35-05-50/603 Detach element, carry out designated repair and reinstate. 35-05-50/604 Secure fixing of loose element. 35-05-50/606 Piece in repair damaged element. 35-05-50/607 Provide and fix replacement element. 35-05-50/608 Fill holes - timber pellet method. 35-05-50/609 Removal of doors for remedial works and rehanging to ensure correct operation. 35-05-50/611 Treatment for woodworm and rot

Products

45-50-60/440 Wood screws

Shared by: 35-05-50/150 Minor joinery system type Timber Skirting and Architrave; and 35-05-50/150 Minor joinery system repairs.

- **Manufacturer:** Contractor's choice.
- **Standard:** To BS 1210.
- **Material:** Stainless steel.
- **Finish:** Galvanized.
- **Screw details:**
 - **Head option:** Contractor's choice.
 - **Screw pattern:** Contractor's choice.
 - **Size:**
 - Diameter:** Contractor's choice.
 - Length:** Contractor's choice.
- **Screw cups:** Pelleted.
- **Screw head protection:**
 - **Types:** Contractor's choice.
 - **Colour:** Manufacturer's standard.

45-60-90/340 Timber procurement

Shared by: 45-45-95/370 Engineered wood (wood veneer) boards; 45-60-90/360 Softwood sections; 45-75-95/340 Wood architraves; and 45-80-98/305 Wood blocks.

- **Timber source:**
 - **General requirements:** Obtain from well managed forests and/ or plantations.
 - **Legality and sustainability:** Sustainability requirements set in UK Government timber procurement policy (UKTPP) and as outlined in the supporting Timber Procurement Advice Note (TPAN).

- **Documentation to be submitted:** Documentary evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-derived products.
- **Certification scheme:** Forest Stewardship Council (FSC) and In accordance with UK Government timber procurement policy (UKTPP).
- **Timing of submissions:** Prior to supplier order acceptance.

45-75-95/340 Wood architraves

Shared by: 35-05-50/150 Minor joinery system type Timber Skirting and Architrave; and 35-05-50/150 Minor joinery system repairs.

- **General requirements:** 45-60-90/340 Timber procurement.
- **Manufacturer:** Contractor's choice.
- **Standard:** To BS 1186-3.
- **Species:** New - European redwood.
Repairs - To match existing.
- **Appearance class:** To BS 1186-3, class CSH.
- **Moisture content at time of fixing:** 9–13%.
- **Profile:** New painted flush finish doors - Pencil round.
Existing doors or re-used doors - To match existing.
- **Finished size:** New - 71 x 18 mm.
Repairs - To be measured on site.
- **Finish as delivered:** Prepared and primed.
- **Execution:** 45-75-95/605 Installing wood architraves, skirtings, mouldings and trims and 45-75-95/610 Finished wall and ceiling trim.

45-75-95/345 Wood skirtings

Shared by: 35-05-50/150 Minor joinery system type Timber Skirting and Architrave; and 35-05-50/150 Minor joinery system repairs.

- **General requirements:** .
- **Manufacturer:** Contractor's choice.
- **Standard:** To BS 1186-3.
- **Species:** New - European redwood.
Repairs - To match existing.
- **Appearance class:** To BS 1186-3, class CSH.
- **Moisture content at time of fixing:** 9–13%.
- **Fire rating:** To class 0 as defined in Building Regulations (England and Wales) Approved Document B.
- **Profile:** New - Chamfered. Sample to be agreed on site prior to placing of order.
Where repairs are required - Profile to match existing.
- **Finished size:** New - 15 x 180mm
To match existing - To be measured on site.
- **Finish as delivered:** Prepared and primed.
- **Execution:** 45-75-95/605 Installing wood architraves, skirtings, mouldings and trims and 45-75-95/610 Finished wall and ceiling trim.

Execution

35-05-50/601 Remove and reconsolidate cracked filler and flaking paint joinery

- **Scope:** • The removal and consolidation of cracked and loose filler together with paint ridges resulting from shrinkage and movement gaps between panel fields and framing or mouldings.
 - The activity applies also to movement gaps that have occurred at joints between different joinery elements and those within a single component such as butt joints in skirting or cornice runs.
 - The requirement relates to all panelled wall elements, window reveals, shutters and door leaves.
- **Activities:** • The removal of old filler and ridges of paint from shrinkage and movement gaps is to be undertaken prior to redecoration.
 - Carefully extract any loose material from joints.
 - Remove ridges using sharp chisels by carefully cutting the paint or filler flush with the level of the main paint surface. Care should be taken not to dig-in and damage the surface.
 - Consolidate movement cracks in panels and other components using a p.v.a. adhesive.

35-05-50/602 Gluing unstable split element

- **Scope:** • The reconsolidation of irregular and loose split runs and fractures, within elements, that are likely to separate if untreated.
 - The repair of fine cracks in architrave, skirting or other fine joinery where earlier repair joints have become exposed.
- **Activities:** • Apply hot animal glue or p.v.a. to the accessible internal surfaces of the split fracture.
 - Sprung elements are to be reset to original profiles and held in position until adhesive dries.
 - Avoid overrun smearing of adjacent joinery surfaces and clean off any residual glue in preparation for decoration works.

35-05-50/603 Detach element, carry out designated repair and reinstate

- **Scope:** • The careful removal of joinery mouldings, architraves, skirtings, cornices and panel components and door pediments which need to be detached for repair or to allow access for the treatment of other integral elements.
 - The reinstatement of the detached element subsequent to designated repairs.
- **Activities - Removal method:** • Check surface finish and in cases where elements are painted over, any paint junctions with the panelling should be carefully cut with a fine knife to release the bond cleanly and prevent a ragged separation.
 - Subject to condition use a range of thin tapering softwood wedges tapering from a fine point to 10 or 20mm thick to give a very shallow taper. These should be inserted and gently tapped in with a hammer into the joints between mouldings and panelling. Use thin card in between protecting the paint face. Utilise plenty of wedges. Mouldings will usually pull away from the panelling fairly readily and often with the original nails still attached. Cut through any stubborn nails to release them, using a pad hacksaw. Protect adjoining finishes.
 - Take note of cases (particularly where panelling or mouldings have previously been detached) in which elements may be fixed using screws, concealed under filler or pellets and over-painted. The latter must be removed prior to wedging.
 - Where nails and staples need to be removed from joinery, this should be undertaken using pincers or fine wire cutters. The surface of the adjacent joinery must be protected with a thin steel cabinet scraper to prevent denting whilst levering.
- **Activities - Reinstatement:** • Components should be reattached accurately to an original or correct alignment as indicated on the drawings.
 - Fixing and spacer blocks are to be pretreated hardwood made to suit and bored to take reattachment screws. Allow for purpose made shaped brackets/blocks to hold component in position in cases where, for example, cornice mouldings or skirtings are being refixed.
 - Fastenings and fixings should be non-ferrous, of brass or stainless steel. Screws should be counterbored

and pelleted (finished flush) with appropriate clearance holes for the shank and tapping or pilot holes to suit the threads. Nails, panel pins and moulding pins must be of stainless steel with precise clearance holes pre-drilled to avoid splitting, but to grip the heads, which must be carefully punched below the timber surface and filled.

35-05-50/604 Secure fixing of loose element

- **Scope:** • The reattachment of dislodged or partially dislodged components.
 - The refixing of elements whose screw fixings have loosened such as architraves.
 - The strengthening of background supports to loose and/or damaged skirting boards in combination with other repair activities.
- **Activities:** • Where components are loose due to screw threads having become stripped or the surrounding timber is split, the splits should be reglued, the holes drilled to an appropriate diameter and dowels glued in. When dry, they should be drilled for pilot holes to suit the screw thread and clearance holes for the screw shanks to avoid further splitting, and slotted screws of appropriate gauge used to re-attach the components.
 - After removing damaged or loose skirting boards and mouldings allow for provision of hardwood fixing grounds screwed back to existing framing or masonry to hold boards in position. Re-attach skirting to correct alignment or as noted on drawings.
 - Fastenings and fixings should be non-ferrous, of brass or stainless steel. Screws should be counterbored and pelleted (finished flush) with appropriate clearance holes for the shank and tapping or pilot holes to suit the threads. Nails, panel pins and moulding pins must be of stainless steel with precise clearance holes, pre-drilled to avoid splitting, but to grip the heads, which must be carefully punched below the timber surface and filled.

35-05-50/606 Piece in repair damaged element

- **Scope:** • Letting in new timber to repair damage or decay.
 - Filling and patching larger holes where cables and ironmongery have been removed.
- **Activities:** • Prepare by cutting back damaged timber to neat sound straight edges on all sides and at back to provide smooth clean surfaces for new timber to adhere to.
 - Repairs are to be let into the surface to match existing profiles and should be carefully spliced-on so as to retain as much original material as possible. This principle applies to piece in repairs to plain and carved elements.
 - Repairs are to be finished by hand.
 - Grain should be matched for direction and moisture content.
 - Repairs are to be made from reclaimed material, ideally salvaged Baltic Pine and European Oak of similar age.
 - Piece in sections are to be glued on using hot animal glue or p.v.a. Care must be taken to ensure that no adhesives used where none would have been originally.

35-05-50/607 Provide and fix replacement element

- **Scope:** The replacement of missing elements of historic joinery either as a part, or whole of a component, e.g. moulding, skirting board.
- **Activities:** • Clean out area of replacement repair with brushes and scrapers.
 - New items are to be re-made to match the original in all particulars and carving work must be identical in all aspects.
 - New items are to be finished by hand.
 - Grain should be matched for direction and moisture content and replacement sections should be carefully fitted in correct alignment.
 - Replacement elements should be made from reclaimed material, ideally salvaged Baltic Pine and European Oak of similar age.
 - New sections are to be glued on using hot animal glue or p.v.a. Care must be taken to ensure that no adhesive is used where none was originally, e.g. between mouldings and panels.

35-05-50/608 Fill holes - timber pellet method

- **Scope:** • The filling of holes 3mm to 15mm diameter caused by damage for where screw fixings are utilised.
 - The filling of small diameter (max 15mm) redundant cable holes.
- **Activities:** • Prepare holes to final trim and fill with cross-grained tapered pellets fitted so that the grain runs with the filled timber.
 - Select pellets from identical timber matched for grain and colour.
 - Glue pellets to finish flush with the original surface.

35-05-50/609 Removal of doors for remedial works and rehanging to ensure correct operation.

- **Scope:** • The careful removal of door leaves from their frames to temporary secure storage prior to carrying out specified repairs.
 - The rectification of door leaves that are out of alignment to door frames including those that are hinge bound.
- **Activities:** • Check any settlement/alignment problems that are related to poor hinge fixing or placement.
 - Carry out any element removal activities identified under repair operation 606 and as identified on individual door elevation drawings.
 - Adjust hinge housings as required. Old screw holes may need to be plugged with appropriate dowels glued in and re-drilled for screw clearance and thread holes. Screws should be of an appropriate gauge and length to suit the purpose and to fit the hinge countersink.
 - For minor distortions allow for realigning doors by taking off built up paint, or, subject to approval, altering position of door stops.
 - Allow for careful light planing of edges to ease the fit of components into rebates followed by sanding and easing sharp corners to original profiles.
 - Reinstall door leaf to correct alignment and operation sufficient to allow the reinstatement of door furniture.

35-05-50/611 Treatment for woodworm and rot

- **Scope:** • The preventative treatment of original joinery.
 - The consolidation of damaged sections of joinery.
- **Activities:** • The application of preservative treatments based on permethrin conforming to BRE Digest 201, Table 1.
 - Plan and execute treatments in a manner that avoids excess fluid on painted surfaces. The Project Architect is to be consulted where affected elements may need to be dismantled to gain access to rear faces.
 - NB: All joinery repair operations described in the specification that require new material and/or components should have the timber pressure impregnated against beetle and fungal attack.

45-75-95/605 Installing wood architraves, skirtings, mouldings and trims

Shared by: 45-75-95/340 Wood architraves; and 45-75-95/345 Wood skirtings.

- **Lengths:** Unjointed between angles or ends of runs.
- **Running joints:** Submit proposals for location and method of jointing where unavoidable.
- **Angle joints:** Mitred.
- **Conditioning regime:** During delivery, storage, fixing and to handover maintain conditions to suit specified moisture contents of timber components.
- **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.
- **Fixing:**
 - **General:** Fix securely.

- **Secret fixing:** Secret nailed, first and last rows surface nailed.
- **Surface fixing:** Face nailed.
- **Exposed nail heads:** Neatly punch below surface.

45-75-95/610 Finished wall and ceiling trim

Shared by: 45-75-95/340 Wood architraves; and 45-75-95/345 Wood skirtings.

- **Exposed fastener heads:** Punch or set below surface. Fill with stopping to match wood.
- **Finish prior to decoration:** Sand to give a clean, smooth and flush surface free from score marks.
- **Finished work:** Free of dirt, stains and damage.

☐ End of system

35-05-50/150 Minor joinery system - type Timber Skirting and Architrave

System outline

35-05-50/150 Minor joinery system type Timber Skirting and Architrave

- **Skirtings:** 45-75-95/345 Wood skirtings.
- **Decorative trims:** 45-75-95/340 Wood architraves.
- **Fasteners:** 45-50-60/440 Wood screws.
- **Execution:** 35-05-50/620 Fixing wood.

Products

45-50-60/440 Wood screws

Shared by: 35-05-50/150 Minor joinery system type Timber Skirting and Architrave; and 35-05-50/150 Minor joinery system repairs.

- **Manufacturer:** Contractor's choice.
- **Standard:** To BS 1210.
- **Material:** Stainless steel.
- **Finish:** Galvanized.
- **Screw details:**
 - **Head option:** Contractor's choice.
 - **Screw pattern:** Contractor's choice.
 - **Size:**
 - Diameter:** Contractor's choice.
 - Length:** Contractor's choice.
- **Screw cups:** Pelleted.
- **Screw head protection:**
 - **Types:** Contractor's choice.
 - **Colour:** Manufacturer's standard.

45-60-90/340 Timber procurement

Shared by: 45-45-95/370 Engineered wood (wood veneer) boards; 45-60-90/360 Softwood sections; 45-75-95/340 Wood architraves; and 45-80-98/305 Wood blocks.

- **Timber source:**
 - **General requirements:** Obtain from well managed forests and/ or plantations.
 - **Legality and sustainability:** Sustainability requirements set in UK Government timber procurement policy (UKTPP) and as outlined in the supporting Timber Procurement Advice Note (TPAN).
 - **Documentation to be submitted:** Documentary evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood-derived products.
- **Certification scheme:** Forest Stewardship Council (FSC) and In accordance with UK Government timber procurement policy (UKTPP).

- **Timing of submissions:** Prior to supplier order acceptance.

45-75-95/340 Wood architraves

Shared by: 35-05-50/150 Minor joinery system type Timber Skirting and Architrave; and 35-05-50/150 Minor joinery system repairs.

- **General requirements:** 45-60-90/340 Timber procurement.
- **Manufacturer:** Contractor's choice.
- **Standard:** To BS 1186-3.
- **Species:** New - European redwood.
Repairs - To match existing.
- **Appearance class:** To BS 1186-3, class CSH.
- **Moisture content at time of fixing:** 9–13%.
- **Profile:** New painted flush finish doors - Pencil round.
Existing doors or re-used doors - To match existing.
- **Finished size:** New - 71 x 18 mm.
Repairs - To be measured on site.
- **Finish as delivered:** Prepared and primed.
- **Execution:** 45-75-95/605 Installing wood architraves, skirtings, mouldings and trims and 45-75-95/610 Finished wall and ceiling trim.

45-75-95/345 Wood skirtings

Shared by: 35-05-50/150 Minor joinery system type Timber Skirting and Architrave; and 35-05-50/150 Minor joinery system repairs.

- **General requirements:** .
- **Manufacturer:** Contractor's choice.
- **Standard:** To BS 1186-3.
- **Species:** New - European redwood.
Repairs - To match existing.
- **Appearance class:** To BS 1186-3, class CSH.
- **Moisture content at time of fixing:** 9–13%.
- **Fire rating:** To class 0 as defined in Building Regulations (England and Wales) Approved Document B.
- **Profile:** New - Chamfered. Sample to be agreed on site prior to placing of order.
Where repairs are required - Profile to match existing.
- **Finished size:** New - 15 x 180mm
To match existing - To be measured on site.
- **Finish as delivered:** Prepared and primed.
- **Execution:** 45-75-95/605 Installing wood architraves, skirtings, mouldings and trims and 45-75-95/610 Finished wall and ceiling trim.

Execution

35-05-50/620 Fixing wood

- **General requirements:** .
- **Method:** Screw fix and apply pellet.
- **Centres:** 450 mm.

45-75-95/605 Installing wood architraves, skirtings, mouldings and trims

Shared by: 45-75-95/340 Wood architraves; and 45-75-95/345 Wood skirtings.

- **Lengths:** Unjointed between angles or ends of runs.
- **Running joints:** Submit proposals for location and method of jointing where unavoidable.
- **Angle joints:** Mitred.
- **Conditioning regime:** During delivery, storage, fixing and to handover maintain conditions to suit specified moisture contents of timber components.
- **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.
- **Fixing:**
 - **General:** Fix securely.
 - **Secret fixing:** Secret nailed, first and last rows surface nailed.
 - **Surface fixing:** Face nailed.
 - **Exposed nail heads:** Neatly punch below surface.

45-75-95/610 Finished wall and ceiling trim

Shared by: 45-75-95/340 Wood architraves; and 45-75-95/345 Wood skirtings.

- **Exposed fastener heads:** Punch or set below surface. Fill with stopping to match wood.
- **Finish prior to decoration:** Sand to give a clean, smooth and flush surface free from score marks.
- **Finished work:** Free of dirt, stains and damage.

□ End of system

35-05-50/I50 Minor joinery system - type UPVC Skirting

System outline

35-05-50/I50 Minor joinery system type UPVC Skirting

- **Skirtings:** 45-75-95/325 Plastics skirtings.
- **Samples required:** 35-05-50/305 Product samples.

Products

35-05-50/305 Product samples

- **Manufacturer:** Contractor's choice.
- **Submittals:** Sample of UPVC skirting for review.
- **Purpose:** For use as a reference sample.
- **Labelling:** Clearly label all submitted samples.
- **Timing of submission:** At same time as review of timber skirting sample.

45-75-95/325 Plastics skirtings

- **Manufacturer:** Deeplas, a brand of Eurocell Building Plastics or similar and approved.
- **Product reference:** 150mm Chamfered Skirting Board - White satin.
- **Material:** Manufacturer's standard.
- **Profile:** Manufacturer's standard.
- **Finish:** Manufacturer's standard.
To be fully sealed to the floor using Clear Silicone Sealant.
- **Colour:** White.
- **Accessories:** End caps;
External corner pieces;
and Internal corner pieces.

☐ End of system

35-70-70/118 Sink assembly

System outline

35-70-70/118 Sink assembly

- **Type:** Kitchen - Refreshments
- **Components:** 45-35-70/344 Sinks type Refreshments Kitchen and 45-35-70/345 Taps and water supply fittings for sinks type Staff Room + Refreshment Kitchen.

Products

45-35-70/344 Sinks type Refreshments Kitchen

- **Manufacturer:** Premier Kitchens and Bathrooms
- **Standard:** To BS EN 13310.
- **Form:** Inset.
- **Bowls:** Iris 1.5 Bowl Sink
Product Code: PKS1111
- **Drainers:** Manufacturer's standard.
- **Materials:**
 - **Body:** Manufacturer's standard.
 - **Finish and colour:** Manufacturer's standard.
- **Size:** Overall size: 1000mm x 500mm x 185mm
Bowl size: 340mm x 420mm x 185mm / 180mm x 340mm x 120mm
- **Water supply, overflow and waste holes:**
 - **Water supply:** Manufacturer's standard.
 - **Overflow:** Manufacturer's standard.
 - **Waste:** Manufacturer's standard.
- **Integral accessories:** Manufacturer's standard.
- **Execution:** 45-35-70/616 Installing worktop sink assemblies type B.

45-35-70/345 Taps and water supply fittings for sinks type Staff Room + Refreshment Kitchen

Shared by: 35-70-70/118 Sink assembly.

- **Manufacturer:** Premier Kitchens and Bathrooms
- **Product:** Alliance Single Lever Monobloc Tap
Product code: TP1008
Single Lever Monobloc Dimensions
Height: 320mm
Width: 191mm
Depth: 202mm
- **Standards:** Manufacturer's standard.
- **Third party certification:** Water Regulations Advisory Scheme (WRAS) approved.
- **Form:** Manufacturer's standard.
- **Materials:**
 - **Body:** Brass.

- **Finish and colour:** Chrome plated.
- **Flow rate (maximum):** 6 L/ min at 3 bar.
- **Water supply temperature (maximum):** User controlled.
- **Integral accessories:** Manufacturer's standard.

Execution

45-35-70/616 Installing worktop sink assemblies type B

- **Overflow connector pipe.:** Secure flexible overflow connector pipe to sink overflow grille. Use sealing washer to grille.
- **Sealing to worktop:** Clear silicone sealant.

☐ End of system

35-70-70/118 Sink assembly - type Baby Change Sink

System outline

35-70-70/118 Sink assembly type Baby Change Sink

- **System manufacturer:** Ideal Standard

<https://www.idealspec.co.uk/assets/datasheet/E784201>

- **Components:** Concept Cube 55cm Washbasin + Semi Pedestal with 1no. Taphole

E7842 Concept Cube 55cm washbasin, 1 taphole with overflow

E7839 Concept semi-pedestal

E0157 Wall fixing set

B9915 Concept Blue washbasin mixer 1 hole with pop-up waste

S8910 Trap 1 1/4" plastic bottle, 75mm seal, multi-purpose outlet

Washbasin wall mounted using E0157 wall fixing set, with semi-pedestal screwed to wall.

- **Execution:** 35-70-70/610 Installing sanitary assemblies generally.
- **System completion:**

Execution

35-70-70/610 Installing sanitary assemblies generally

Shared by: 35-70-70/118 Sink assembly type Baby Change Sink and type Museum Makers - Butler's Sink; and 35-70-70/140 Accessible WC package assembly.

- **Standards:**
 - **Installation:** Washbasin to BS EN 14688 & BS EN 31
- **Supply and discharge pipework:** Fix before appliances.
- **Appliances:**
 - **Surfaces designed to falls:** Install to drain as intended.
 - **Fasteners:** Use nonferrous or stainless steel fasteners.
 - **Fixing:** Fix appliances securely to structure or to appropriate brackets. Do not support on pipework.
 - **Unauthorized use:** Do not use appliances.
 - **Sealing to walls and floors:**
 - Sealants:** Silicone sealant.
 - Colours:** White.
- **Water supply fittings:**
 - **Positioning:** Hot tap to left of cold tap as viewed by user of appliance.
 - **Fixing:** Secure against twisting.
 - **Sealing to appliance:** Use supplied washers. Replace supplied lower washers with plastics top hat washers if required for secure fixing.
- **Wastes:** Secure in position on waterproof jointing compound.

35-70-70/118 Sink assembly - type Kitchen - Staff Room

System outline

35-70-70/118 Sink assembly type Kitchen - Staff Room

- **Components:** 45-35-70/344 Sinks type Staff Room Kitchen and 45-35-70/345 Taps and water supply fittings for sinks type Staff Room + Refreshment Kitchen.

Products

45-35-70/344 Sinks type Staff Room Kitchen

- **Manufacturer:** Premier Kitchens and Bathrooms
- **Standard:** To BS EN 13310.
- **Form:** Inset.
- **Bowls:** Iris 1.0 Bowl Sink
Product code: PKS1110
- **Drainers:** Manufacturer's standard.
- **Materials:**
 - **Body:** Manufacturer's standard.
 - **Finish and colour:** Manufacturer's standard.
- **Size:** Overall size: 1000mm x 500mm x 185mm
Bowl size: 458mm x 408mm x 185mm
- **Water supply, overflow and waste holes:**
 - **Water supply:** One tap hole, centre.
 - **Overflow:** Manufacturer's standard.
 - **Waste:** Manufacturer's standard.
- **Integral accessories:** Manufacturer's standard.
- **Execution:** 45-35-70/616 Installing worktop sink assemblies type A.

45-35-70/345 Taps and water supply fittings for sinks type Staff Room + Refreshment Kitchen

Shared by: 35-70-70/118 Sink assembly.

- **Manufacturer:** Premier Kitchens and Bathrooms
- **Product:** Alliance Single Lever Monobloc Tap
Product code: TP1008
Single Lever Monobloc Dimensions
Height: 320mm
Width: 191mm
Depth: 202mm
- **Standards:** Manufacturer's standard.
- **Third party certification:** Water Regulations Advisory Scheme (WRAS) approved.
- **Form:** Manufacturer's standard.
- **Materials:**
 - **Body:** Brass.
 - **Finish and colour:** Chrome plated.

- **Flow rate (maximum):** 6 L/ min at 3 bar.
- **Water supply temperature (maximum):** User controlled.
- **Integral accessories:** Manufacturer's standard.

Execution

45-35-70/616 Installing worktop sink assemblies type A

- **Overflow connector pipe.:** Secure flexible overflow connector pipe to sink overflow grille. Use sealing washer to grille.
- **Sealing to worktop:** Clear silicone sealant.

☐ End of system

35-70-70/118 Sink assembly - type Museum Makers - Butler's Sink

System outline

35-70-70/118 Sink assembly type Museum Makers - Butler's Sink

- **System manufacturer:** Hafele
- **Components:** 45-35-70/340 Ceramic sinks;
45-35-70/347 Supports for sinks;
45-35-70/345 Taps and water supply fittings for sinks type Museum Makers Sink;
and 45-35-70/346 Wastes for sinks.
- **Execution:** 35-70-70/610 Installing sanitary assemblies generally.
- **System completion:** 35-70-70/810 Water supply fittings.

Products

45-35-70/340 Ceramic sinks

- **Manufacturer:** Hafele - Sink, Double Bowl, Rangemaster Belfast CDB800WH
- **Standard:** To BS 1206.
- **Form:** Double Bowl, Rangemaster Belfast CDB800WH
- **Materials:**
 - **Body:** Fireclay.
 - **Finish and colour:** White, glazed.
- **Size:** Overall size: 800 x 490 mm ± 10 mm
Main bowl size: 445 x 360 mm
Second bowl size: 445 x 360 mm
- **Water supply, overflow and waste holes:**
 - **Water supply:** Manufacturer's standard.
 - **Overflow:** Manufacturer's standard.
 - **Waste:** WKIT03 565.64.993
- **Integral accessories:** Manufacturer's standard.

45-35-70/345 Taps and water supply fittings for sinks type Museum Makers Sink

- **Manufacturer:** Hafele - Tap, Rangemaster Belfast TBM1BF/CM
- **Standards:** Manufacturer's standard.
- **Third party certification:** Water Regulations Advisory Scheme (WRAS) approved.
- **Form:** Dual lever monobloc
- **Materials:**
 - **Body:** Brass.
 - **Finish and colour:** Stainless steel - finish tbc
- **Flow rate (maximum):** 6 L/ min at 3 bar.
- **Integral accessories:** Manufacturer's standard.

45-35-70/346 Wastes for sinks

- **Manufacturer:** Hafele - Waste Kit, Rangemaster WKIT03 565.64.993
- **Standard:** To BS EN 274-1.
- **Form:** Manufacturer's standard.
- **Tail pattern:** Manufacturer's standard.
- **Materials:**
 - **Body:** Manufacturer's standard.
 - **Finish and colour:** Polished chrome
- **Size:** Manufacturer's standard.

45-35-70/347 Supports for sinks

- **Manufacturer:** Contractor's choice.
- **Form:** Legs.
- **Materials:**
 - **Brackets:**
Body: Stainless steel.
Finish and colour: Chrome plated.
 - **Legs:**
Body: Stainless steel.
Finish and colour: Chrome plated.

Execution

35-70-70/610 Installing sanitary assemblies generally

Shared by: 35-70-70/118 Sink assembly type Baby Change Sink and type Museum Makers - Butler's Sink; and 35-70-70/140 Accessible WC package assembly.

- **Standards:**
 - **Installation:** Washbasin to BS EN 14688 & BS EN 31
- **Supply and discharge pipework:** Fix before appliances.
- **Appliances:**
 - **Surfaces designed to falls:** Install to drain as intended.
 - **Fasteners:** Use nonferrous or stainless steel fasteners.
 - **Fixing:** Fix appliances securely to structure or to appropriate brackets. Do not support on pipework.
 - **Unauthorized use:** Do not use appliances.
 - **Sealing to walls and floors:**
Sealants: Silicone sealant.
Colours: White.
- **Water supply fittings:**
 - **Positioning:** Hot tap to left of cold tap as viewed by user of appliance.
 - **Fixing:** Secure against twisting.
 - **Sealing to appliance:** Use supplied washers. Replace supplied lower washers with plastics top hat washers if required for secure fixing.
- **Wastes:** Secure in position on waterproof jointing compound.

45-35-70/614 Installing sink assemblies on brackets or leg frames

- **Brackets or leg frames:**
 - **Fixing:** Secure.
 - **Levels:** Top surfaces in a horizontal plane.
- **Overflow connector pipe.:** Secure flexible overflow connector pipes.
- **Sealing:** Seal to walls, splashbacks and cupboard side panels with clear silicone sealant.

System completion

35-70-70/810 Water supply fittings

Shared by: 35-70-70/118 Sink assembly type Museum Makers - Butler's Sink; and 35-70-70/140 Accessible WC package assembly.

- **Water flow rates:** Test and adjust flow rates to meet specified requirements.
- **Water temperature at outlets:** Test and adjust maximum temperatures to meet specified requirements.

☐ End of system

35-70-70/140 Accessible WC package assembly

System outline

35-70-70/140 Accessible WC package assembly

- **Components:** 45-35-70/407 Accessible WC Doc M equipment packages.
- **Execution:** 35-70-70/610 Installing sanitary assemblies generally and .35-70-70/601 Installing flushing WC assemblies
- **System completion:** 35-70-70/810 Water supply fittings.

Products

45-35-70/407 Accessible WC Doc M equipment packages

- **Manufacturer:** Armitage Shanks
- **Product reference:** Doc M Close Coupled Left Or Right Hand Packs
S0683 - Doc M Contour 21+ Close Coupled Pack LH
S0684 - Doc M Contour 21+ Close Coupled Pack RH
- **Standards:** In accordance with Approved Document M.
- **Finish:** Stainless Steel finish - (MY).
- **Type approval certificate:** Submit.
- **Form:** Complete accessible WC Doc M package and fittings.

Execution

35-70-70/601 Installing flushing WC assemblies

- **Pans:** - Floor mounted pans: Screw fix and fit cover caps over screw heads. Do not use mortar or other beddings.
- Seat and cover: Stable when raised.
- **Cisterns:** - Brackets:
Fixing: Secure.
Levels: Top surfaces of brackets in a horizontal
- Cistern operating components: Obtain from cistern manufacturer.
- Float operated valves: Matched to pressure of water supply.
- Overflow pipe fixing at cistern: With resilient washer between appliance and backnut

35-70-70/610 Installing sanitary assemblies generally

Shared by: 35-70-70/118 Sink assembly type Baby Change Sink and type Museum Makers - Butler's Sink; and 35-70-70/140 Accessible WC package assembly.

- **Standards:**
 - **Installation:** Washbasin to BS EN 14688 & BS EN 31
- **Supply and discharge pipework:** Fix before appliances.
- **Appliances:**
 - **Surfaces designed to falls:** Install to drain as intended.
 - **Fasteners:** Use nonferrous or stainless steel fasteners.

- **Fixing:** Fix appliances securely to structure or to appropriate brackets. Do not support on pipework.
- **Unauthorized use:** Do not use appliances.
- **Sealing to walls and floors:**
 - Sealants:** Silicone sealant.
 - Colours:** White.
- **Water supply fittings:**
 - **Positioning:** Hot tap to left of cold tap as viewed by user of appliance.
 - **Fixing:** Secure against twisting.
 - **Sealing to appliance:** Use supplied washers. Replace supplied lower washers with plastics top hat washers if required for secure fixing.
- **Wastes:** Secure in position on waterproof jointing compound.

System completion

35-70-70/810 Water supply fittings

Shared by: 35-70-70/118 Sink assembly type Museum Makers - Butler's Sink; and 35-70-70/140 Accessible WC package assembly.

- **Water flow rates:** Test and adjust flow rates to meet specified requirements.
- **Water temperature at outlets:** Test and adjust maximum temperatures to meet specified requirements.

☐ End of system

35-70-70/190 Sanitary accessories

System outline

35-70-70/190 Sanitary accessories

- **Sanitary fixtures fittings and equipment:** 45-35-72/316 Baby changing units;
45-35-72/322 Clothes hooks;
45-35-72/334 Hand dryers;
45-35-72/358 Soap dispensers;
and 45-35-55/310 Mirrors.
- **Fixings and fasteners:** Masonry plugs and wood screws.
- **Sealing:** Required.
- **Execution:** 35-70-70/611 Installing sanitary accessories generally.
- **System completion:** 35-70-70/820 Documentation.

Products

45-35-55/310 Mirrors

- **Manufacturer:** Contractor's choice.
- **Standards:** To BS EN 1036-2.
- **Materials and standards:**
 - **Safety requirements:** To BS 6262-4 and BS 6262-6.
- **Dimensions:** As shown on WC and Baby Change drawings.
- **Thickness:** 6 mm.
- **Finish:** Silvered to give maximum reflection, free from tarnishing, discoloration, scratches and other defects visible in the designed viewing conditions. Reflection undistorted.
- **Backing:** Manufacturer's standard.
- **Frame:**
 - **Material:** Frameless
- **Edges:**
 - **Treatment:** Smoothed.
 - **Profile:** Square.
- **Provision for fixing:** Secret fixings to manufacturers instructions.
- **Execution:** 45-35-55/610 Installing mirrors.

45-35-72/316 Baby changing units

- **Manufacturer:** Dolphin Solutions
- **Product reference:** BC 100-EH Dolphin Plastic Horizontal Baby Changing Table
- **Form:** Wall mounted, fold down.
- **Material:** Manufacturer's standard.
- **Finish and colour:** Manufacturer's standard.
- **Size (nominal):** 870 mm wide x 406 mm high.

Projection when closed - 102 mm.
Projection when open - 457 mm.

45-35-72/322 Clothes hooks

- **Manufacturer:** Dolphin Solutions
- **Product reference:** BC403 Dolphin Stainless Steel Combined Coat Hook
Installed to WCs and Baby Change in accordance with manufacturers instructions.

45-35-72/334 Hand dryers

- **Manufacturer:** Dolphin Solutions
- **Product reference:** BC200I Dolphin Velocity High Speed Hand Dryer
Installed to WCs and Baby Change in accordance with manufacturers instructions.
- **Standards:** To BS EN 60335-1 and BS EN 60335-2-23.
- **Body:**
 - **Material:** Stainless steel.
 - **Finish:** Satin Stainless Steel

45-35-72/358 Soap dispensers

- **Manufacturer:** Dolphin Solutions
- **Product reference:** BC613 Dolphin Stainless Steel Soap Dispenser
Installed to WCs and Baby Change in accordance with manufacturers instructions.

Execution

35-70-70/611 Installing sanitary accessories generally

- **Fixtures:**
 - **Positions:** Submit proposals.
 - **Fixing:** Secure. In accordance with manufacturers' recommendations.

45-35-55/610 Installing mirrors

- **Fixing:** 3 mm (minimum) gap between back of mirror and wall surface.
- **Alignment:** Accurately align to suit mirror shape and location.

System completion

35-70-70/820 Documentation

- **Operating and maintenance instructions:**
 - **Product information:** Product description.
Date of purchase.
Performance characteristics.
Application (suitability for use).
Method of operation and control.
Cleaning and maintenance requirements.
 - **Format:** To be included in O+M Manual
 - **Number of copies:** Two

- **Submittal date:** At handover.

☐ End of system

35-85-60/180 Special coating system

System outline

35-85-60/180 Special coating system

- **System performance:** 35-85-60/220 Fire performance of coating system.
- **System manufacturer:** Envirograf
Intumescent Systems Ltd, Envirograf House, Barfreestone, Dover, Kent, CT15 7JG, United Kingdom
- **Initial coats:** HWAP Primer can be applied by brush or roller. Coverage is 10-12m² per litre

It is important to ensure the moisture content of the wood substrate is below 12% / 14% before application.

- **Finishing coats:** 45-35-84/406 Flame-retardant finishes type C - HWExcel clear;
45-35-84/406 Flame-retardant finishes type A - HWAP - clear primer;
and 45-35-84/406 Flame-retardant finishes type B - HW02 Clear intumescent Coating.
- **Execution:** Preparation -
Any loose, flaking and unstable material must be identified and then thoroughly removed using stiff brushes.
- **System completion:** 35-85-60/800 Information to be provided on completion and 35-85-60/895 Verification of performance.

System performance

35-85-60/220 Fire performance of coating system

- **Design:**
 - **Standard:** Eng Approved Document B1 and Eng Approved Document B2.

Products

45-35-84/406 Flame-retardant finishes type A - HWAP - clear primer

- **Manufacturer:** Envirograf
Intumescent Systems Ltd, Envirograf House, Barfreestone, Dover, Kent, CT15 7JG, United Kingdom
- **Reaction to fire rating (indicative):** FD30s
- **Opacity:** Transparent.
- **Execution:** 45-35-84/703 Applying coating system.

45-35-84/406 Flame-retardant finishes type C - HWExcel clear

- **Manufacturer:** Envirograf
Intumescent Systems Ltd, Envirograf House, Barfreestone, Dover, Kent, CT15 7JG, United Kingdom
- **Reaction to fire rating (indicative):** FD30s
- **Opacity:** Transparent.
- **Execution:** 45-35-84/703 Applying coating system.

45-35-84/406 Flame-retardant finishes type B - HW02 Clear intumescent Coating

- **Manufacturer:** Envirograf
Intumescent Systems Ltd, Envirograf House, Barfreestone, Dover, Kent, CT15 7JG, United Kingdom
- **Reaction to fire rating (indicative):** FD30s
- **Opacity:** Transparent.
- **Execution:** 45-35-84/703 Applying coating system.

Execution

45-35-84/703 Applying coating system

Shared by: 45-35-84/406 Flame-retardant finishes type A - HWAP - clear primer; type B - HW02 Clear intumescent Coating and type C - HWExcel clear.

- **Initial coats:**
 - **Number of coats:** 1 x coat HWAP - clear primer @ 12m² per litre
2 x coats HW01 (white) or HW02 (clear) - intumescent @ 8m² per litre per coat
1 x coat HW04 (white) or HWExcel (clear - protective topcoat @ 12m² per litre The topcoats can be over treated as desired.

To be applied by Specialist.

- **Finishing coats:**
 - **Application:** As outlined by Envirograf spec.

System completion

35-85-60/800 Information to be provided on completion

- **Submittals:** Operation and maintenance information;
Product certification;
and Application documentation.

35-85-60/895 Verification of performance

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

☐ End of system

35-85-60/195 Water-borne paint system

System outline

35-85-60/195 Water-borne paint system

- **Finishing coats:** 45-35-84/318 Water-borne mid-sheen finishes type - Joinery - New;
45-35-84/318 Water-borne mid-sheen finishes type - Joinery - Existing (Previously painted);
45-35-84/362 Silicate-based masonry coatings type - Interior paint - unpainted lime plaster/porous surfaces;
45-35-84/362 Silicate-based masonry coatings type Interior Paint - Unpainted and Previously Painted surfaces;;
and 45-35-84/318 Water-borne mid-sheen finishes type Metalwork - Existing.

Products

45-35-84/318 Water-borne mid-sheen finishes type - Joinery - New

- **Manufacturer:** Dulux Trade, brand of AkzoNobel
- **Product reference:** Dulux Trade Diamond Eggshell
Data sheet no. 408
- **Surface substrate:** Wood - Internal Non Resinous Softwood / Hardwood
- **Previous Coating:** None/New
- **Surface Condition:** Good (New uncoated)
- **Durability Performance:** High
- **Finish Type:** Water based
- **Sheen:** Eggshell.
- **Colour:** TBC
- **No. of Finish System Coats:** 2
- **General Notes:** - Comply at all times with BS 6150: 2006 Code of Practice for Painting of Buildings (or as amended) and BS EN ISO 12944: 1998 Paints and Varnishes - Corrosion Protection of Steel Structures by Protective Paint Systems (or as amended).

- AkzoNobel Decorative Paints will not accept responsibility for any unauthorised amendments or usage of the wording contained in this System sheet and in Paint's Site Work Instructions v5.

- In order to achieve the optimum results, it is extremely important to adhere to the systems and AkzoNobel Decorative Paint's Site Work Instructions v5 quoted.

- Products supplied for the carrying out of this specification are compliant with Statutory Instrument 2005 No. 2773 (Environmental Protection) - The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2005

- When rubbing down dry and/or dusting off wear a suitable face mask to avoid the inhalation of dust. (See AkzoNobel Decorative Paints UK Site Work Instructions v5 Clause SW4.20 for further information.)

- **Execution:** Preparation

Woods with a knot content above that specified in BS EN 942 should not be used. New wood should

ideally be preservative impregnated. In some situations this may be mandatory.

Thoroughly clean down the surfaces to remove all dirt, grease and surface contaminants. Carefully remove any plaster or mortar deposits. Remove oils from surface by wiping with White Spirit. Abrade overall to remove any raised grain and round all sharp edges to a 3mm radius and *dust off. Apply two thin coats of an appropriate knotting solution to all knots and resinous areas and allow to harden. Ensure all surfaces are fully dry before proceeding.

Priming

Spot prime any bare metal, metal fixings nail heads etc with: 1 coat of Dulux Trade All Purpose Primer.

Prime overall with: 1 coat of Dulux Trade Quick Dry Wood Primer Undercoat thinned up to 1 part Water to 5 parts of product as appropriate.

Making Good

Make good all nail-holes, open joints and open grain etc. with a Polycell Trade filler appropriate to the surface and according to the manufacturer's instructions. Allow making good to dry before being rubbed down smooth and *dusted off.

Fillers

Use only good quality/compatible materials and follow the manufacturers' recommendations for use, even if at variance with this system.

Note * Linseed oil putty is not suitable for use under woodstains, varnishes or water based systems.

Finishing System

2 coats of Dulux Trade Diamond Eggshell of selected shade.

45-35-84/318 Water-borne mid-sheen finishes type - Joinery - Existing (Previously painted)

- **Manufacturer:** Dulux Trade, brand of AkzoNobel
- **Product reference:** Dulux Trade Diamond Eggshell
Data sheet no. 408
- **Surface substrate:** Wood - Internal Non Resinous Softwood / Hardwood
- **Previous Coating:** Paint (Solvent Based)
- **Surface Condition:** Good (Coating Sound but Untested)
Defective - Light Failure / Breakdown (<20%)
Defective - partial failure / breakdown (<50%)
- **Durability Performance:** High
- **Finish Type:** Water Based
- **Sheen:** Eggshell.
- **Colour:** TBC
- **General Notes:** - Comply at all times with BS 6150: 2006 Code of Practice for Painting of Buildings (or as amended) and BS EN ISO 12944: 1998 Paints and Varnishes - Corrosion Protection of Steel Structures by Protective Paint Systems (or as amended).

- AkzoNobel Decorative Paints will not accept responsibility for any unauthorised amendments or usage of the wording contained in this System sheet and in Paint's Site Work Instructions v5.

- In order to achieve the optimum results, it is extremely important to adhere to the systems and AkzoNobel Decorative Paint's Site Work Instructions v5 quoted.

- Products supplied for the carrying out of this specification are compliant with Statutory Instrument 2005 No. 2773 (Environmental Protection) - The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2005

- When rubbing down dry and/or dusting off wear a suitable face mask to avoid the inhalation of dust. (See AkzoNobel Decorative Paints UK Site Work Instructions v5 Clause SW4.20 for further information.)

- **Execution: Preparation**

The amount of preparatory work required on a Previously Coated Surface can vary considerably due to a variety of circumstances. This System is for Preparation up to and including partial failure/breakdown <50%. (See AkzoNobel Decorative Paints UK Site Work Instructions v5 Condition of Surface Tables for further information.)

Completely remove all blistered, poorly adhering or otherwise defective coatings. Open-up all joints which are not tight fitting and rake out thoroughly. Wash down remaining areas in good condition with soap and water, detergent solution or suitable solvent to remove all dirt, grease and surface contaminants, rinse off and allow to dry. Rub down overall to provide a 'key' (this is particularly important when applying water based systems to previous coatings that are known, or suspected to be, solvent based) and 'feather' broken edges of existing coatings.

*Dust off.

Apply two thin coats of a knotting solution, appropriate for use under a water based undercoat, to all knots and resinous areas and allow to harden. Ensure all surfaces are fully dry before proceeding.

Priming

Spot prime any bare metal, metal fixings nail heads etc with: 1 coat of Dulux Trade All Purpose Primer.

Prime all bare areas and areas exposed by the removal of coatings with 1 coat of Dulux Trade Quick Dry Wood Primer Undercoat.

Prime overall with: 1 coat of Dulux Trade Diamond Eggshell of selected shade thinned up to 1 part Water to 10 parts of product as appropriate.

Priming overall with this coating is essential as it acts as a 'tie' coat between the previously solvent based and the new water based system.

Making Good

Make good all nail-holes, open joints and open grain etc. with a Polycell Trade filler appropriate to the surface and according to the manufacturer's instructions. Allow making good to dry before being rubbed down smooth and *dusted off.

Fillers - Use only good quality/compatible materials and follow the manufacturers' recommendations for use, even if at variance with this system.

Note - Linseed oil putty is not suitable for use under woodstains, varnishes or water based systems.

Finishing System

2 coats of Dulux Trade Diamond Eggshell of selected shade.

45-35-84/318 Water-borne mid-sheen finishes type Metalwork - Existing

- **Manufacturer:** Dulux Trade, brand of AkzoNobel

- **Scope:** All window frames to be painted internally prior to completion of works.
- **Product reference:** Dulux Trade Eggshell Finish
Data sheet no. 405
- **Surface substrate:** Metal - Ferrous (Iron & Steel) (Internal)
- **Previous Coating:** Paint (Solvent Based)
Paint (Water Based)
- **Surface Condition:** Good (Coating Sound but Untested)
Defective - Light Failure / Breakdown (<20%)
Defective - partial failure / breakdown (<50%)
- **Durability Performance:** High
Normal
- **Finish Type:** Solvent Based
- **Sheen:** Eggshell.
- **Colour:** To match existing.
- **No. of Finish System Coats:** 2
- **General Notes:** - Comply at all times with BS 6150: 2006 Code of Practice for Painting of Buildings (or as amended) and BS EN ISO 12944: 1998 Paints and Varnishes - Corrosion Protection of Steel Structures by Protective Paint Systems (or as amended).

- AkzoNobel Decorative Paints will not accept responsibility for any unauthorised amendments or usage of the wording contained in this System sheet and in Paint's Site Work Instructions v5.

- In order to achieve the optimum results, it is extremely important to adhere to the systems and AkzoNobel Decorative Paint's Site Work Instructions v5 quoted.

- Products supplied for the carrying out of this specification are compliant with Statutory Instrument 2005 No. 2773 (Environmental Protection) - The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2005

- Note - *When rubbing down dry and/or dusting off wear a suitable face mask to avoid the inhalation of dust.

(See AkzoNobel Decorative Paints UK Site Work Instructions v5 Clause SW4.20 for further information.)

- **Execution:** Preparation

The amount of preparatory work required on a Previously Coated Surface can vary considerably due to a variety of circumstances. This System is for Preparation up to and including partial failure/breakdown <50%. (See AkzoNobel Decorative Paints UK Site Work Instructions v5 Condition of Surface Tables for further information.)

Thoroughly clean down to remove all surface contamination. Carefully scrape back to a firm edge all areas of defective paint coatings and rub down to 'feather' the broken edges. Scrape and wire brush corroded steel to produce a clean metal surface. Rub down with a suitable abrasive and *dust off. All manually prepared surfaces should be prepared to a minimum standard of St3. BS EN ISO 8501-1: 2007 at the time of coating.

Priming

Prime all bare metal with: 1 coat of Dulux Trade Metalshield Zinc Phosphate Primer applied to give a minimum wet film thickness of 150 microns giving a minimum dry film thickness of 65 microns.

Bring Forward

Bring forward all primed areas with: 1 coat of Dulux Trade Eggshell Finish applied to give a minimum wet

film thickness of 58 microns giving a minimum dry film thickness of 26 microns.

Finishing System

2 coats of Dulux Trade Eggshell Finish each applied to give a minimum wet film thickness of 58 microns per coat, giving a minimum dry film thickness of 26 microns per coat.

45-35-84/362 Silicate-based masonry coatings type - Interior paint - unpainted lime plaster/porous surfaces

- **Manufacturer:** Keim Mineral Paints Ltd
- **Product reference:** Keim Optil.

A high quality silicate based, paint for interior walls and ceilings. It provides long-term decoration and is available in a wide range of standard colour shades. Keim Optil can be applied onto existing previously painted surfaces as well as unpainted and new substrates.

- **Colour:** TBC - Manufacturers standard colour range.
- **General Notes:** In order for Keim Mineral paint to achieve its permanent bond with the surface it is essential that the following recommendations are followed.

Pre-treatment

- all areas to be decorated should be free from all surface contaminants, sound, dry and dust free
- all loose, flaking and unstable material must be identified and then thoroughly removed using stiff brushes and broad bladed scrapers to get back to a sound edge; these edges should then be feathered in
- ensure that any paint materials left remaining and the underlying substrate is sound and adhering well
- caution should be taken with the removal of any pre 1960's coatings as they may contain lead
- any gloss or shiny surfaces should be thoroughly flatted down using sand or emery paper to create a good key
- if the surfaces are being chemically stripped ensure that they are thoroughly washed down of all residue prior to decoration. Due to the potential for an osmotic drawing reaction, which can bring contaminants to the surface, we do not recommend the use of poultice based strippers if the surfaces are to be redecorated
- any powdery or chalking surfaces will require treatment prior to decoration – contact Keim to ascertain the appropriate product
- use only Keim recommended fillers and sealers. Acrylic, resin and gypsum based fillers particularly are not recommended for use with mineral paints

Material Application

- always maintain a wet edge and work materials out well
- all materials must be thoroughly mixed beforehand, and periodically during decoration, using a mechanical mixer. We do not recommend intermixing packs, however if this is necessary ensure that products are thoroughly mixed beforehand to ensure even pigment dispersion, prior to mixing
- materials must not be applied at temperatures below 5°C nor those in excess of 30°C
- Keim Mineral Paints should be applied onto wind dry surfaces where the moisture content on or near the surface (to a depth of 5mm approximately) should be no greater than 18% by volume. For on-site purposes a moisture meter may be used to give a qualitative reading – if the reading is in the green zone decoration may proceed
- on newly rendered surfaces we would suggest that a period of at least 15 days (30 days for lime render) is allowed following rendering, prior to the application of Keim paints
- mineral paints are manufactured using natural components and as such can appear to dry out unevenly. This is the way in which they dry, once fully dried any unevenness will disappear. Do not over-roll or touch up the paint during the drying process as this may inadvertently create patching once dry
- mineral paints will lighten as they dry, with a corresponding increase in opacity
- if airless spraying, please contact Keim for details of the appropriate nozzle sizes and optimum mesh and

filter types

Housekeeping

- all adjoining surfaces must be protected during decoration, any splashes/unwanted paint removed immediately, before it is able to completely dry and bond to the surface
- any splashes or spillage should be removed immediately using water - particular note needs to be taken of this in respect of Keim on glass, as it has a slight etching effect if allowed to dry hard
- clean all brushes and tools immediately in water (some ancillary products containing solvents may require white spirit or turpentine, if in doubt please consult the relevant product technical data sheet)
- always store materials upright and secure. Protect from extremes of temperature and store in frostfree conditions

General

- when ordering reference to the project should be made, to ensure that in the event of re-ordering a colour match can be supplied
- to avoid confusion, the recommendations within this specification should be followed where there are any minor differences between this document and the standard advice on packaging and technical data sheets

- **Execution:** - Preparation:

Any loose, flaking and unstable material must be identified and then thoroughly removed using stiff brushes and broad bladed scrapers to get back to a sound edge; these edges should then be feathered in.

Ensure that any paint materials left remaining and the underlying substrate is sound and adhering well. Any gloss or shiny surfaces should be thoroughly flattened down using sand or emery paper to create a good key.

Keim Dolomitspachtel - A ready to use silicate mineral filler. Any cracks or where there is a need to equalise the surface should be filled using Keim Dolomitspachtel, brush or trowel applied to a pre-wetted surface and dressed back to the required level.

Any new/repaired surfaces should be left for a minimum period of 15 days prior to the application of Keim Mineral Paints.

All surfaces must be thoroughly washed down with clean cold water to remove all surface dirt and dust.

When all surfaces are clean, sound, wind dry, dust free and free from all surface contaminants, decoration using Keim Mineral Paints may proceed.

- Primer Coat(s):

Keim Granital Dilution

Surfaces should be treated with Keim Granital Dilution, a liquid silicate binder, brush applied and left for a minimum period of 12 hours.

- Initial Coat(s):

Keim Optil

Apply a single coat of Keim Optil in the chosen colour. Keim Optil should be applied by brush, roller or airless spray.

- Finishing coats:

Keim Optil

After a minimum period of 12 hours a final coat of Keim Optil, in the chosen colour should be applied in a like manner.

45-35-84/362 Silicate-based masonry coatings type Interior Paint - Unpainted and Previously Painted surfaces:

- **Manufacturer:** Keim Mineral Paints Ltd
- **Product reference:** Keim Optil.

A high quality silicate based, paint for interior walls and ceilings. It provides long-term decoration and is available in a wide range of standard colour shades. Keim Optil can be applied onto existing previously painted surfaces as well as unpainted and new substrates.

- **Colour:** TBC - Manufacturers standard colour range.
- **General Notes:** In order for Keim Mineral paint to achieve its permanent bond with the surface it is essential that the following recommendations are followed.

Pre-treatment

- all areas to be decorated should be free from all surface contaminants, sound, dry and dust free
- all loose, flaking and unstable material must be identified and then thoroughly removed using stiff brushes and broad bladed scrapers to get back to a sound edge; these edges should then be feathered in
- ensure that any paint materials left remaining and the underlying substrate is sound and adhering well
- caution should be taken with the removal of any pre 1960's coatings as they may contain lead
- any gloss or shiny surfaces should be thoroughly flatted down using sand or emery paper to create a good key
- if the surfaces are being chemically stripped ensure that they are thoroughly washed down of all residue prior to decoration. Due to the potential for an osmotic drawing reaction, which can bring contaminants to the surface, we do not recommend the use of poultice based strippers if the surfaces are to be redecorated
- any powdery or chalking surfaces will require treatment prior to decoration – contact Keim to ascertain the appropriate product
- use only Keim recommended fillers and sealers. Acrylic, resin and gypsum based fillers particularly are not recommended for use with mineral paints

Material Application

- always maintain a wet edge and work materials out well
- all materials must be thoroughly mixed beforehand, and periodically during decoration, using a mechanical mixer. We do not recommend intermixing packs, however if this is necessary ensure that products are thoroughly mixed beforehand to ensure even pigment dispersion, prior to mixing
- materials must not be applied at temperatures below 5°C nor those in excess of 30°C
- Keim Mineral Paints should be applied onto wind dry surfaces where the moisture content on or near the surface (to a depth of 5mm approximately) should be no greater than 18% by volume. For on-site purposes a moisture meter may be used to give a qualitative reading – if the reading is in the green zone decoration may proceed
- on newly rendered surfaces we would suggest that a period of at least 15 days (30 days for lime render) is allowed following rendering, prior to the application of Keim paints
- mineral paints are manufactured using natural components and as such can appear to dry out unevenly. This is the way in which they dry, once fully dried any unevenness will disappear. Do not over-roll or touch up the paint during the drying process as this may inadvertently create patching once dry
- mineral paints will lighten as they dry, with a corresponding increase in opacity
- if airless spraying, please contact Keim for details of the appropriate nozzle sizes and optimum mesh and filter types

Housekeeping

- all adjoining surfaces must be protected during decoration, any splashes/unwanted paint removed immediately, before it is able to completely dry and bond to the surface

- any splashes or spillage should be removed immediately using water - particular note needs to be taken of this in respect of Keim on glass, as it has a slight etching effect if allowed to dry hard
- clean all brushes and tools immediately in water (some ancillary products containing solvents may require white spirit or turpentine, if in doubt please consult the relevant product technical data sheet)
- always store materials upright and secure. Protect from extremes of temperature and store in frostfree conditions

General

- when ordering reference to the project should be made, to ensure that in the event of re-ordering a colour match can be supplied
- to avoid confusion, the recommendations within this specification should be followed where there are any minor differences between this document and the standard advice on packaging and technical data sheets

- **Execution:** - Preparation:

Any loose, flaking and unstable material must be identified and then thoroughly removed using stiff brushes and broad bladed scrapers to get back to a sound edge; these edges should then be feathered in.

Ensure that any paint materials left remaining and the underlying substrate is sound and adhering well. Any gloss or shiny surfaces should be thoroughly flatted down using sand or emery paper to create a good key.

Keim Dolomitspachtel - A ready to use silicate mineral filler. Any cracks or where there is a need to equalise the surface should be filled using Keim Dolomitspachtel, brush or trowel applied to a pre-wetted surface and dressed back to the required level.

Any new/repaired surfaces should be left for a minimum period of 15 days prior to the application of Keim Mineral Paints.

All surfaces must be thoroughly washed down with clean cold water to remove all surface dirt and dust.

When all surfaces are clean, sound, wind dry, dust free and free from all surface contaminants, decoration using Keim Mineral Paints may proceed.

- Initial Coat(s):

Keim Optil

Apply a single coat of Keim Optil in the chosen colour. Keim Optil should be applied by brush, roller or airless spray.

- Finishing coats:

Keim Optil

After a minimum period of 12 hours a final coat of Keim Optil, in the chosen colour should be applied in a like manner.