
SECTION 3

NBS / WORKMANSHIP AND MATERIALS

Islington Town Hall Auditorium

October 2008

Table of Contents

Title		Page
C20	Demolition	3
C51	Repairing/ Renovating/ Conserving timber	6
D20	Excavating and filling	8
E10	Mixing/casting/curing in situ concrete	10
E20	Formwork for in situ concrete	12
E30	Reinforcement for in situ concrete	13
F10	Brick/ block walling	14
F30	Accessories/ sundry items for brick/ block/ stone walling	17
G12	Isolated structural metal members	18
G20	Carpentry/ timber framing/ first fixing	19
J30	Liquid applied tanking/ damp proofing	21
J40	Flexible sheet tanking/ damp proofing	23
K10	Plasterboard dry linings/ partitions/ ceilings	24
K13	Rigid sheet fine linings and panelling	27
K21	Wood strip/ board fine flooring/ linings	29
L20	Doors/ shutters/ hatches	30
L40	General glazing	32
M10	Cement based levelling/ wearing screeds	34
M20	Plastered/ Rendered/ Roughcast coatings	37
M40	Stone/ concrete/ quarry/ ceramic tiling/ mosaic	41
M50	Rubber/ plastics/ cork/ lino/ carpet tiling/ sheeting	44
M52	Decorative papers/ fabrics	49
M60	Painting/clear finishing	52
N10	General fixtures/ furnishings/ equipment	53
N13	Sanitary appliances and fittings	54
P20	Unframed isolated trims/ skirting's/ sundry items	59
P21	Door/ window ironmongery	60
P31	Holes, chases, covers and supports for services	61
R11	Above ground foul drainage systems	62
X12	Vertical platform lift systems	64

C20 Demolition

To be read with Preliminaries/General conditions

GENERAL REQUIREMENTS

110 DESK STUDY/ SURVEY

- Scope: Before starting demolition work, examine available information, carry out a survey of the structures, site and surrounding area.
 - Report and method statements: Submit, describing:
 - Form, condition and details of the structures, site and surrounding area.
 - Extent: areas where walls are to be removed and where the lift pit is to be formed.
 - Form, location and removal methods of flammable, toxic or hazardous materials.
 - Form, location and removal methods of materials for reuse or recycling.
 - Type and location of adjoining or surrounding premises which may be adversely affected by noise, vibration, dust or removal of structure.
 - Identification and location of services above and below ground, including those required for the Contractor's own use. Arrangements for disconnection and removal of services.
 - Type and location of features of historical, archaeological, geological or ecological importance.
 - Sequence and method of demolition including details of specific pre-weakening.
 - Arrangements for protection of personnel and the public including exclusion of unauthorized persons.
 - Arrangements for control of site transport and traffic.
 - Proposed programme of work.
 - Special requirements: n/a.
- Format of report: paper and electronic.

120 EXTENT OF DEMOLITION

- General: Subject to retention requirements specified elsewhere demolish structures down to upper level of ground floor slab.

140 BENCH MARKS

- Unrecorded bench marks and other survey information: Give notice when found.
Do not remove or destroy.

150 FEATURES TO BE RETAINED

- General: Keep in place and protect the following: remaining items as indicated on the drawings.

SERVICES AFFECTED BY DEMOLITION

210 SERVICES REGULATIONS

- Work carried out to or which affects new or existing services: Carry out in accordance with the Byelaws or Regulations of the relevant Statutory Authority.

220 LOCATION OF SERVICES

- Services affected by the Works: Locate and mark positions.
- Mains services: Arrange with the appropriate authorities for location and marking of positions.
- Standard: In accordance with National Joint Utilities Group (NJUG) 'Guidelines on the positioning and colour coding of utilities' apparatus'.

- 230 DISCONNECTION - ARRANGED BY CONTRACTOR
- General: Arrange with the appropriate authorities for disconnection of services and removal of fittings and equipment prior to starting demolition.
- 240 DISCONNECTION OF DRAINS
- General: Locate disconnect and seal disused drain connections.
Sealing: Within the site and permanent.
- 250 DRAINS IN USE
- General: Protect drains, manholes, inspection chambers, gullies, vent pipes and fittings still in use and ensure that they are kept free of debris.
 - Damage: Make good damage arising from demolition work. Leave clean and in working order at completion.
- 260 BYPASS CONNECTIONS
- General: Provide as necessary to maintain continuity of services to occupied areas of the same and adjoining properties.
Minimum notice to occupiers: 72 hours if shutdown is necessary during changeover.
- 270 SERVICES WHICH ARE TO REMAIN
- Damage: Give notice and notify service authority or owner of damage arising from the execution of the works.
Repairs: Complete as directed, and to the satisfaction of the service authority or owner.

DEMOLITION WORK

- 310 WORKMANSHIP
- Standard: Demolish structures in accordance with BS 6187.
 - Operatives:
 - Appropriately skilled and experienced for the type of work.
 - Holding or in training to obtain relevant CITB Certificates of Competence.
 - Site staff responsible for supervision and control of work: Experienced in the assessment of risks involved and methods of demolition to be used.
- 320 GAS OR VAPOUR RISKS
- Precautions: Prevent fire or explosion caused by gas or vapour.
- 330 DUST CONTROL
- General: Reduce airborne dust by periodically spraying demolition works with an appropriate wetting agent. Keep public roadways and footpaths clear of mud and debris.
Lead dust: Submit method statement for control, containment and clean-up regimes.
- 340 HEALTH HAZARDS
- Precautions: Protect site operatives and general public from hazards associated with vibration, dangerous fumes and dust arising during the course of the Works.
- 350 ADJOINING PROPERTY
- Temporary support and protection: Provide. Maintain and alter as necessary as work progresses.
 - Damage: Minimize. Promptly repair.
 - Leave no unnecessary or unstable projections.
 - Make good to ensure safety, stability, weather protection and security.
 - Support to foundations: Do not disturb.
Defects: Report when exposed or becoming apparent.

- 360 **STRUCTURES TO BE RETAINED**
- Parts which are to be kept in place: Protect.
 - Extent of work: Cut away and strip out with care to reduce the amount of making good to a minimum.
- 370 **PARTLY DEMOLISHED STRUCTURES**
- General: Leave in a stable condition, with adequate temporary support at each stage to prevent risk of uncontrolled collapse. Keep safe outside working hours.
 - Temporary works: Prevent debris from overloading.
Unauthorised persons: Prevent access.
- 380 **DANGEROUS OPENINGS**
- General: Illuminate and protect. Keep safe outside working hours.
- 391 **ASBESTOS CONTAINING MATERIALS**
- Discovery: Give notice immediately of suspected asbestos containing materials discovered during demolition work. Avoid disturbing such materials.
Methods for safe removal. Submit details and statutory risk assessments.
- 410 **UNFORESEEN HAZARDS**
- Unrecorded voids, tanks, chemicals, etc. discovered during demolition: Give notice.
Methods for safe removal, filling, etc: Submit details.
- 420 **OPEN BASEMENTS, ETC**
- Temporary support: Leave adequate buttress walls or provide temporary support to basement retaining walls up to ground level.
 - Safety: Make remaining sections of retaining and buttress walls safe and secure.
 - Water movement: Make holes in basement floors to allow water drainage or penetration (depending on water table). Provide a hole for every 10 m², not less than 600 mm in diameter.
- 440 **SITE CONDITION AT COMPLETION**
- Debris: Clear away and leave the site in a tidy condition.
Other requirements: n/a.
- MATERIALS ARISING**
- 510 **CONTRACTOR'S PROPERTY**
- Components and materials arising from the demolition work: Property of the Contractor except where otherwise provided.
Remove from site as work proceeds where not to be reused or recycled for site use.

C51 Repairing/ Renovating/ Conserving timber

To be read with Preliminaries/ General conditions

GENERAL

110 INSPECTION

- Purpose: To confirm nature and extent of repair/ renovation/ conservation work shown on drawings and described in survey reports and schedules of work.
- Parties involved:
 - Contract administrator;
 - Contractor's representative; and
 - Structural engineer.
- Timing: At least 7 days before starting each section of work.
Instructions issued during inspection: Confirm in writing.

150 TIMBER PROCUREMENT

- Timber (including timber for wood based products): Obtained from well managed forests and/ or plantations in accordance with:
 - The laws governing forest management in the producer country or countries.
 - International agreements such as the Convention on International Trade in Endangered Species of wild fauna and flora (CITES).
- Documentation: Provide either:
 - Documentary evidence (which has been or can be independently verified) regarding the provenance of all timber supplied.
 - Evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood based products.

360 SOFTWOOD FOR JOINERY REPAIRS oak panel frames

- Species: to match existing.
- Quality: Generally to BS EN 942; free from decay and insect attack (except pinhole borers).
 - Appearance class: Class J2.
- Treatment: bees wax.
Moisture content on delivery: 9-13%.

370 HARDWOOD FOR JOINERY REPAIRS oak panels

- Species: Oak.
- Quality: Generally to BS EN 942; free from decay and insect attack (except pinhole borers).
 - Appearance class: Class J2.
- Treatment: bees wax.
Moisture content on delivery: 9-13%.

EXECUTION

600 WORKMANSHIP

- Skill and experience of site operatives: Appropriate for types of work on which they are employed.
Documentary evidence: Submit on request.

- 620 PROTECTION OF TIMBER AND WOOD COMPONENTS BEFORE AND DURING INSTALLATION
- Storage: Keep dry, under cover, clear of the ground and with good ventilation. Support sections/ components on regularly spaced, level bearers on a dry, firm base.
 - Handling: Do not overstress, distort or disfigure sections or components during transit, storage, lifting, erection or fixing.
- 630 MATERIAL SAMPLES
- Representative samples of designated materials: Submit before placing orders.
Designated materials: oak panels.
- 650 DIMENSIONS GENERALLY
- Site dimensions: Take as necessary before starting fabrication.
 - Discrepancies with drawings: Report without delay and obtain instructions before proceeding.
- 680 WARPING OF TIMBER
- Bow, spring, twist and cup: Not greater than the limits set down in BS 4978, BS EN 519 or BS EN 14081-1 for softwood, or BS 5756 for hardwood.
- 710 REUSE OF TIMBER SECTIONS/ WOOD COMPONENTS
- Sections/ components scheduled to be removed but not reused in existing locations:
 - Agree extent of retention for reuse elsewhere in the works.
 - Treatment following removal: Refurbish and repair as necessary.
 - Storage: Protect against damage, and store until required.
Storage location: On site.
 - Reuse: Adapt sections/ components, as necessary, and install in agreed locations.
- 720 TEMPORARY REMOVAL AND REINSTATEMENT OF FITTINGS/ FIXTURES
- Items to be removed, and reinstated on completion of repair work:
 - Identification: Attach labels or otherwise mark items using durable, non-permanent means, to identify location and refixing instructions, where applicable.
 - Treatment following removal: Refurbish and repair.
 - Storage: Protect against damage, and store until required.
Storage location: On site.
 - Reinstatement: Refit in original locations using original installation methods.
 Items unsuitable or not required for reuse: Obtain instructions regarding disposal.
- 730 PARTIAL REMOVAL OF EXISTING DECORATIVE/ PROTECTIVE FINISH where required as indicated on the drawings
- Extent: Remove minimum necessary to expose damaged or decayed wood. Feather the edge of remaining coating around repair site.
Method: Careful abrasion using moistened waterproof abrasive paper.
- 740 REMOVAL OF EXISTING DECORATIVE/ PROTECTIVE FINISH where required as indicated on the drawings
- Extent: Remove completely back to bare wood.
Method: Submit proposals.
- 750 CLEANING DIRTY OR STAINED WOOD
- Generally: Scrub with neutral pH soap and clean, warm water.
 - Old varnish: Remove using mixture of turpentine (not turpentine substitute) and acetone in proportions determined by experiment, followed by washing down.

D20 Excavating and filling

To be read with Preliminaries/ General conditions

- 25 INSPECTING FORMATIONS
- Notice: Make advance arrangements for inspection of formations by Building Control and CA
- 27 ADJACENT EXCAVATIONS
- Timing of excavations in close proximity: Complete deepest excavation first.
- 30 OBSTRUCTIONS
- Recorded foundations, beds, drains, etc: Break out and seal off drain ends. Remove contaminated earth.
 - Unrecorded foundations, beds, basements, filling, tanks, service pipes, drains, etc: Give notice to CA
- 35 EXCESS EXCAVATIONS
- Excavation taken wider than required: Backfill with approved excavated material or hardcore.
 - Excavation taken deeper than required: Backfill with foundation concrete.
- 40 SURPLUS EXCAVATED MATERIAL
- Material not specified to be removed from site.
- 50 HAZARDOUS, AGGRESSIVE OR UNSTABLE MATERIALS
- Generally: Do not import or use fill materials which would, either in themselves or in combination with other material or ground water, give rise to a health hazard, damage to building structures or instability in the filling.
 - Soluble sulfate content of imported materials for filling when tested to BS 1377-3, clause 5, using a 2:1 water-soil extract (maximum): 1 g/litre.
- 53 WATER
- Generally: Keep excavations free from water until foundations and below ground constructions are completed.
- 55 PLACING FILL GENERALLY
- Excavations and areas to be filled: Free from loose soil, rubbish and standing water.
 - Freezing conditions: Do not use frozen materials or materials containing ice. Do not place fill on frozen surfaces.
 - Fill against structures, membranes or buried services: Place and compact in a sequence and manner which will ensure stability and avoid damage.
- 60 BACKFILLING TO FOUNDATIONS
- Under oversite concrete and pavings: Hardcore as clause 65.
- 62 FROST SUSCEPTIBILITY
- General: Except as allowed below, fill must be non frost-susceptible as defined in Transport Research Laboratory Report SR 829 'Specification for the TRRL frost-heave test'.
 - Frost-susceptible fill: Use only within the external walls of buildings below spaces that will be heated. Protect from frost during construction.
- 65 HARDCORE
- Fill: Granular material, free from harmful matter and excessive dust or clay, well graded, passing a 75 mm BS sieve and one of the following:
 - Crushed hard rock or quarry waste.
 - Crushed concrete, brick or tile, free from plaster.
 - Gravel or hoggin.

- Filling: Spread and level both backfilling and general filling in layers not exceeding 150 mm. Thoroughly compact each layer using a vibratory roller 2.5T equivalent unless noted otherwise.

75 BLINDING TO HARDCORE

- Surfaces to receive sheet overlays or concrete: Blind with: sand, fine gravel or other approved fine material applied to provide a close smooth surface.
- Permissible deviation on surface level: +0 -25 mm.

E10 Mixing/casting/curing in situ concrete

To be read with Preliminaries/ General conditions

10 DESIGNED MIX FOR FOUNDATIONS, DRAINAGE, MANHOLES ETC:

- To the relevant clauses of BS 5328:Parts 2, 3 and 4.
- Grade: C20
- Nominal maximum size of aggregate: 20 mm
- Aggregate(s):
Coarse: To BS 882
Fine: To BS882
Cement: To BS EN 197, Sulphate resisting to BS4027, PFA with Portland to BS 3892-1, GGBF with Portland to BS 6699.
- Minimum cement content: 280 kg/cu m
- Maximum free water/cement ratio: 0.55
- Maximum total percentage of chloride ion by mass of cement: 0.4%
- Information to be provided by the producer: As BS 5328: Part 3, clause 3.

11 DESIGNED MIX FOR GROUND FLOOR SLABS, MANHOLE TOPS

- To the relevant clauses of BS 5328:Parts 2, 3 and 4.
- Grade: C25
- Nominal maximum size of aggregate: 20 mm
- Aggregate(s):
Coarse: To BS 882
Fine: To BS882
Cement: To BS EN 197, Sulphate resisting to BS4027, PFA with Portland to BS 3892-1, GGBF with Portland to BS 6699.
- Minimum cement content: 330 kg/cu m
- Maximum free water/cement ratio: 0.55
- Maximum total percentage of chloride ion by mass of cement: 0.4%
- Information to be provided by the producer: As BS 5328: Part 3, clause 3.

13 DESIGNED MIX FOR WEAK MIX FILL:

- To the relevant clauses of BS 5328:Parts 2, 3 and 4.
- Grade: C15
- Nominal maximum size of aggregate: 20 mm
- Aggregate(s):
Coarse: To BS
Fine: To BS882
Cement: To BS EN 197, Sulphate resisting to BS4027, PFA with Portland to BS 3892-1, GGBF with Portland to BS 6699.
- Minimum cement content: 230 kg/cu m
- Maximum free water/cement ratio: 0.65
- Maximum total percentage of chloride ion by mass of cement: 0.4%
- Information to be provided by the producer: As BS 5328: Part 3, clause 3.

20 CONCRETE FOR DRY LEAN MIX:

- Proportions: 1:18
- Cement: As BS 12 and clause 240
- Aggregate(s): As BS 882
- Nominal maximum size of aggregate: 20 mm.

45 PROPERTIES OF FRESH CONCRETE to be determined by the Contractor in consultation with the concrete supplier to suit the on site circumstances and methods, but in all respects maintaining compliance with this specification.

50 UNDERLAY: Before placing structural concrete (not blinding concrete) on hardcore or other absorbent substrates, lay building paper to BS 1521, Class B or polyethylene sheet, 250 micrometres thick. Lap edges 150 mm.

60 PLACING AND COMPACTING:

- At time of placing ensure that all surfaces on which concrete is to be placed are clean, with no debris, tying wire clippings, fastenings or free water.
- Place while sufficiently plastic for full compaction. Do not add water or retemper mixes. The temperature of concrete at time of placing must be not less than 5°C. Do not place against frozen or frost covered surfaces.
- Fully compact to full depth (until air bubbles cease to appear on the top surface), especially around reinforcement, cast-in accessories, into corners of formwork and at joints. Use mechanical vibration .

70 CURING AND PROTECTING:

- Prevent surface evaporation from concrete surfaces as specified below by covering with polyethylene sheeting as soon as practicable after completion of placing and compacting, removing only to permit any finishing operations and replacing immediately thereafter:
- Surfaces which will be exposed to frost, and wearing surfaces of floors and pavements, regardless of weather conditions: not less than 10 days
- Other structural concrete surfaces: not less than 5 days.
- Adequately protect concrete from shock, indentation and physical damage.

71 High Alumina Cement and Calcium Chloride will not be permitted.

E20 Formwork for in situ concrete

To be read with Preliminaries/ General conditions

- 10 WORK BELOW GROUND: Vertical faces of strip footings, bases and slabs may be cast against faces of excavation, provided the faces are sufficiently accurate and stable and adequate measures are taken to prevent contamination of concrete.
- 40 FORMWORK:
- Construct accurately and robustly to produce finished concrete to the required dimensions. Formed surfaces must be free from twist and bow, all intersections, lines and angles being square, plumb and true.
 - Construct (including joints between forms and completed work), to prevent loss of grout, using seals when necessary. Secure tight against adjacent concrete to prevent formation of steps.
 - Fix inserts or box out as required in correct positions before placing concrete. Form all holes and chases. Do not cut hardened concrete without approval.

E30 Reinforcement for in situ concrete

To be read with Preliminaries/ General conditions

- 10 PLAIN BAR REINFORCEMENT
To BS 4449, Grade 250.
- 20 DEFORMED BAR REINFORCEMENT
To BS 4449, Grade 460.
- 30 FABRIC REINFORCEMENT
Steel fabric to BS 4483
- 40 CLEANLINESS: At time of placing concrete, reinforcement to be clean and free of corrosive pitting, loose millscale, loose rust, ice and substances which may adversely affect the reinforcement, concrete, or bond between the two.
- 50 LAPS IN NOMINAL BAR REINFORCEMENT: Not less than 300 mm unless noted otherwise on drawings.
- 60 LAPS IN FABRIC REINFORCEMENT: Not less than 250 mm unless otherwise noted on drawings.
- 70 FIXING REINFORCEMENT:
 - Where ground bearing slabs are reinforced with a single layer of fabric in the upper part of the slab, the fabric may be placed in position on top of the first compacted layer of concrete, followed by the top layer of concrete, placed within two hours of the first layer.
 - In all other cases fix reinforcement before the concrete is placed, providing suitable spacers at not more than 1 m centres or closer spacing as necessary to support in position and maintain the specified cover.
 - Fix adequately, using tying wire, which must not intrude into the concrete cover.
- 71 INSPECTION:
Allow CA to inspect reinforcement and formwork before casting concrete, giving at least 24 hours notice.

F10 Brick/ block walling

To be read with Preliminaries/ General conditions.

TYPES OF WALLING

- 355 CONCRETE COMMON BLOCKWORK to chair store wall
- Blocks: To BS EN 771-3.
 - Manufacturer: Hanson Building Products Marketing Department, Stewartby, Bedford, MK43 9LZ. Tel: 08705 258 258. Fax: 01234 762 040. Email: info@hansonbp.com Web: www.hanson.biz.
 - Product reference: Evalite Standard Blocks.
 - Configuration: Solid.
 - Compressive strength:
Mean value: .
Characteristic value: .
Category: .
 - Freeze/ Thaw resistance: .
 - Thermal properties: .
 - Work sizes (length x width x height): 440 x 150 x 215mm.
 - Special shapes: .
 - Additional requirements: .
 - Mortar: As section Z21.
 - Standard: To BS EN 998-2.
 - Mix: 1:1:6 cement:lime:sand.
 - Additional requirements: None.
 - Bond: Half lap stretcher.
- 355A CONCRETE COMMON BLOCKWORK to form lift shaft
- Blocks: To BS EN 771-3.
 - Manufacturer: Hanson Building Products Marketing Department, Stewartby, Bedford, MK43 9LZ. Tel: 08705 258 258. Fax: 01234 762 040. Email: info@hansonbp.com Web: www.hanson.biz.
 - Product reference: Evalite Standard Blocks.
 - Configuration: Solid.
 - Compressive strength:
Mean value: .
Characteristic value: .
Category: .
 - Freeze/ Thaw resistance: .
 - Thermal properties: .
 - Work sizes (length x width x height): 440 x 200 x 215mm.
 - Special shapes: .
 - Additional requirements: .
 - Mortar: As section Z21.
 - Standard: To BS EN 998-2.
 - Mix: 1:1:6 cement:lime:sand.
 - Additional requirements: None.
 - Bond: Half lap stretcher.

355B CONCRETE COMMON BLOCKWORK to toilet walls

- Blocks: To BS EN 771-3.
 - Manufacturer: Hanson Building Products Marketing Department, Stewartby, Bedford, MK43 9LZ. Tel: 08705 258 258. Fax: 01234 762 040. Email: info@hansonbp.com Web: www.hanson.biz.
 - Product reference: Evalite Standard Blocks.
 - Configuration: Solid.
 - Compressive strength:
 - Mean value: .
 - Characteristic value: .
 - Category: .
 - Freeze/ Thaw resistance: .
 - Thermal properties: .
 - Work sizes (length x width x height): 440 x 100 x 215mm.
 - Special shapes: .
 - Additional requirements: .
 - Mortar: As section Z21.
 - Standard: To BS EN 998-2.
 - Mix: 1:1:6 cement:lime:sand.
 - Additional requirements: None.
- Bond: Half lap stretcher.

WORKMANSHIP GENERALLY

440 CONDITIONING OF CONCRETE BRICKS/ BLOCKS

- Autoclaved concrete bricks/ blocks delivered warm from manufacturing process: Do not use.
- Age of nonautoclaved concrete bricks/ blocks: Do not use until at least four weeks old.
- Avoidance of suction in concrete bricks/ blocks: Do not wet.
 - Use of water retaining mortar admixture: Submit details.

460 MORTAR GROUPS

- Mix proportions: For a specified group select a mix design from the following:

Group	1	2	3	4
PC*:lime:sand with or without air entraining additive				
1:0-0.25:3				1:0.5-4.5
1:2:8-9				1:1:5-6
Masonry cement:sand containing PC* and lime in approx ratio 1:1, and an air entraining additive				
-			1:3	1:3.5-4
				1:4.5
Masonry cement:sand containing PC* and inorganic materials other than lime and air entraining additive				
-	1:2.5-3.5	1:4-5	1:5.5-6.5	
PC*:sand and air entraining additive				
1:3	1:3-4	1:5-6	1:7-8	

PC* = Portland cement

- Batching: Mix proportions by volume.
 - Mortar type: Continuous throughout any one type of masonry work.

500 LAYING GENERALLY

- Mortar joints: Fill vertical joints. Lay bricks, solid and cellular blocks on a full bed.
- Bond where not specified: Half lap stretcher.
Vertical joints in facework: Even widths. Plumb at every fifth cross joint.

520 ACCURACY

	• Courses: Level and true to line.		
	• Faces, angles and features: Plumb.		
	• Permissible deviations:		
	- Position in plan of any point in relation to the specified building reference line and/ or point at the same level	± 10 mm.	
mm.	- Straightness in any 5 m length		± 5
	- Verticality up to 3 m height		± 10 mm.
	- Verticality up to 7 m height		± 14 mm.
	- Overall thickness of walls		± 10 mm.
	- Level of bed joints up to 5 m (brick masonry)	± 11 mm.	
	- Level of bed joints up to 5 m	± 13 mm.	

535 HEIGHT OF LIFTS IN WALLING USING CEMENT GAUGED OR HYDRAULIC LIME MORTAR

- Quoins and advance work: Rack back.
- Lift height (maximum): 1.2 m above any other part of work at any time.
Daily lift height (maximum): 1.5 m for any one leaf.

595 LINTELS

Bearing: Ensure full length masonry units occur immediately under lintel ends.

610 SUPPORT OF EXISTING WORK

- Joint above inserted lintel or masonry: Fully consolidated with semidry mortar to support existing structure.

635 JOINTING

Profile: Consistent in appearance.

F30 Accessories/ sundry items for brick/ block/ stone walling

To be read with Preliminaries/ General conditions.

REINFORCING/ FIXING ACCESSORIES

241 WALL STARTERS/ CONNECTORS

- Manufacturer: Ancon Building Products, President Way, President Park, Sheffield S4 7UR
Tel: 0114 275 5224 Fax: 0114 276 8543 Email: info@ancon.co.uk Web site:
www.ancon.co.uk .
- Product reference: Staifix Universal Wall Starter System .
- Material/ finish: Austenitic stainless steel .
Sizes: .

320 DAMP PROOF COURSE - POLYETHYLENE

- Standard: To BS 6515.
- Manufacturer: contractors choice .
Product reference: .

INSTALLATION OF DPCS/ CAVITY TRAYS

415 HORIZONTAL DPCS

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

425 GROUND LEVEL DPCS

Joint with damp proof membrane: Continuous and effectively sealed.

560 VERTICAL DPCS GENERALLY

- Form: In one piece wherever possible.
Joints: Upper part overlapping lower not less than 100 mm.

JOINTS

615 MOVEMENT JOINTS WITHOUT SEALANT TO INTERNAL WALL STARTER LOCATIONS

- Filler: Closed cell polyethylene foam OSA.
 - Thickness: To match design width of joint.
 - Manufacturer: contractors choice .
Product reference: .

G12 Isolated structural metal members

To be read with Preliminaries/ General conditions

10 FABRICATION OF MEMBERS:

- Steel sections: To BS 4-1, BS EN 10055, BS EN 10056 or BS EN 10210, as appropriate.
- Steel: To BS EN 10025, grade S275.
- Surface condition: Free from heavy pitting and rust, burrs, sharp edges and flame cutting dross.
- Cuts and holes: Form neatly and accurately.
- Welding: Metal arc method to BS EN 1011-2.
- Welded joints: Fully fused, with mechanical properties not less than those of the parent metal.
- Site welding: Not allowed without permission.

20 SHOP PRIMING

- Preparation: Remove loose scale and rust, burrs, fins, sharp edges and weld spatter. Clean out crevices. Thoroughly degrease and rinse with clean water. Allow to dry.
- Primer: high build zinc phosphate
- Application: Apply one full coat within 8 hours of cleaning surfaces, free from runs and sags.

35 NUTS,BOLTS & WASHERS

- to be protected against corrosion:
- galvanised to BS ISO 1461
- sheradised to BS4921 class 1
- zinc plated to BS3382

40 INSTALLATION

- Accuracy: Position members true to line and level. If necessary, use steel packs of sufficient area to allow full transfer of loads to bearing surfaces.
- Fixing: Use washers under bolt heads and nuts.
 - Tapered washers: Provide under bolt heads and nuts bearing on sloping surfaces. Match taper to slope angle and align correctly.

G20 Carpentry/ timber framing/ first fixing

To be read with Preliminaries/ General conditions.

GENERAL

105 TIMBER PROCUREMENT

- Timber (including timber for wood based products): Obtained from well managed forests/ plantations in accordance with:
 - The laws governing forest management in the producer country or countries.
 - International agreements such as the Convention on International Trade in Endangered Species of wild fauna and flora (CITES).
- Documentation: Provide either:
 - Documentary evidence (which has been or can be independently verified) regarding the provenance of all timber supplied, or
 - Evidence that suppliers have adopted and are implementing a formal environmental purchasing policy for timber and wood based products.

160 GRADING AND MARKING OF SOFTWOOD

- Timber of a target/ finished thickness less than 100 mm and not specified for wet exposure: Graded at an average moisture content not exceeding 20% with no reading being in excess of 24% and clearly marked as 'DRY' or 'KD' (kiln dried).
- Timber graded undried (green) and specified for installation at higher moisture contents: Clearly marked as 'WET' or 'GRN'.
- Structural timber members cut from large graded sections: Regraded to approval and marked accordingly.

PRODUCTS

270 UNGRADED SOFTWOOD for all areas where studwork is required

- Quality of timber: Free from decay, insect attack (except pinhole borers) and with no knots wider than half the width of the section.
- Surface finish: Regularized.
- Treatment: Organic solvent impregnation to NBS section Z12 and Wood Protection Association Commodity Specification C8, Service life: 40 years.

WORKMANSHIP GENERALLY

402 CROSS SECTION DIMENSIONS OF NONSTRUCTURAL SOFTWOOD

- Dimensions: Dimensions in this specification and shown on drawings are finished sizes.
- Maximum permitted deviations from finished sizes: As stated in BS EN 1313-1:
 - Clause 6 for sawn sections.
 - Clause NA.2 for further processed sections.

420 WARPING OF TIMBER

- Bow, spring, twist and cup: Not greater than the limits set down in BS 4978 or BS EN 14081-1 for softwood, or BS 5756 for hardwood.

430 SELECTION AND USE OF TIMBER

- Timber members damaged, crushed or split beyond the limits permitted by their grading: Do not use.
- Notches and holes: Position in relation to knots or other defects such that the strength of members will not be reduced.
 - Scarf joints, finger joints and splice plates: Do not use without approval.

440 PROCESSING TREATED TIMBER

- Cutting and machining: Carry out as much as possible before treatment.
- Extensively processed timber: Retreat timber sawn lengthways, thickened, planed, ploughed, etc.
- Surfaces exposed by minor cutting/ drilling: Treat with two flood coats of a solution recommended by main treatment solution manufacturer.

450 MOISTURE CONTENT

- Moisture content of wood and wood based products at time of installation: Not more than:
 - Covered in generally unheated spaces: 24%.
 - Covered in generally heated spaces: 20%.
20%.

510 PROTECTION

- Generally: Keep timber dry and do not overstress, distort or disfigure sections or components during transit, storage, lifting, erection or fixing.
- Timber and components: Store under cover, clear of the ground and with good ventilation. Support on regularly spaced, level bearers on a dry, firm base. Open pile to ensure free movement of air through the stack.
Trussed rafters: Keep vertical during handling and storage.

ERECTION AND INSTALLATION

750 MODIFICATIONS/REPAIRS

- Defects due to detailing or fabrication errors: Report without delay.
- Methods of rectification: Obtain approval of proposals before starting modification or remedial work.
- Defective/damaged components: Timber members/ components may be rejected if the nature and/or number of defects would result in an excessive amount of site repair.

760 TEMPORARY BRACING

- Provision: As necessary to maintain structural timber components in position and to ensure complete stability during construction.

770 ADDITIONAL SUPPORTS

- Provision: Position and fix additional studs, noggings and/ or battens to support edges of sheets materials, and wall/ floor/ ceiling mounted appliances, fixtures, etc. shown on drawings
- Material properties: Additional studs, noggings and battens to be of adequate size and have the same treatment, if any, as adjacent timber supports.

J30 Liquid applied tanking/ damp proofing

To be read with Preliminaries/General conditions

TYPES OF TANKING/ DAMP PROOFING

- 110B BITUMEN/ RUBBER WATERPROOFER
- Manufacturer: Ruberoid Building Products, member of the IKO Group.
 - Web: www.ruberoid.co.uk.
 - Email: technical@ruberoid.co.uk.
 - Product reference: Ruberprufe
- Application: 3 coats at 2.25 m²/L each.

EXECUTION

- 205 SUITABILITY OF SUBSTRATE
- Substrates generally:
 - Smooth, even textured, clean, dry and frost free.
 - Within tolerances for level and surface regularity.
 - Vertical and horizontal surfaces: Correctly prepared and free from irregularities.
 - Curing period for concrete substrates (minimum): 7 days.
 - Moisture content and stability of substrate: Must not impair integrity of finished tanking/ damp proofing.
 - Preliminary work: Complete including:
 - Chases.
 - External angles.
 - Formation of upstands and kerbs.
 - Movement joints.Penetrations/ Outlets.
- 206 ADHESION TESTING
- Tensile bond strength: Test in accordance with BS EN ISO 4624.
Test results: Submit.
- 207 PRIMERS
- Application: Uniform, continuous coverage.
- 210 COATING APPLICATION
- Adjacent surfaces exposed to view in finished work: Protect.
 - Coatings:
 - Apply in dry atmospheric conditions when as per manufacturers instructions.
 - Uniform, continuous coverage. Do not allow to pool in hollows.
 - Firmly adhered to substrate and free from imperfections.
 - Prevent damage to finished coatings.
 - Penetrations: Impervious.
Final covering: Apply as soon as possible after coating has hardened.
- 220 COLD APPLIED COATINGS
- Thinning: Not permitted unless recommended by manufacturer.
 - Successive coats:
 - Allow to dry before applying next.Apply at right angles to previous.

COMPLETION

- 310 INSPECTION
Interim and final inspections: Submit reports.

J40 Flexible sheet tanking/ damp proofing

To be read with Preliminaries/ General conditions.

TYPES OF TANKING/ DAMP PROOFING

120 LOOSE LAID POLYETHYLENE DAMP PROOFING

- Substrate: Concrete slab with trowelled finish.
- Manufacturer: Contractor's choice.
 - Product reference: Contractor's choice.
- Thickness/ Gauge: 300 micrometres (1200 gauge).
- Joints:
 - Surface to be joined: Clean and dry beyond full width of joint.
 - Laps (minimum): End and side, 150 mm.
 - Sealing: Continuous mastic strip between overlaps; edge of top sheet sealed with jointing tape.

WORKMANSHIP

310 WORKMANSHIP GENERALLY

- Condition of substrate:
 - Clean and even textured, free from voids and sharp protrusions.
 - Moisture content: Compatible with damp proofing/ tanking.
- Air and surface temperature: Do not apply sheets if below minimum recommended by membrane manufacturer.
- Condition of membrane at completion:
 - Neat, smooth and fully supported, dressed well into abutments and around intrusions.
 - Completely impervious and continuous.
 - Undamaged. Prevent puncturing during following work.Permanent overlying construction: Cover membrane as soon as possible.

360 JUNCTIONS WITH PROJECTING DPCS/ CAVITY TRAYS

- Adjoining surfaces: Clean and dry.
- Dpcs/ Cavity trays: Lap and fully bond/ seal with sheeting.
 - Laps (minimum): 100 mm.Bonding/ Sealing: Mastic tape.

365 JUNCTIONS WITH FLUSH DPCS/ CAVITY TRAYS

- Adjoining surfaces: Clean and dry.
- Dpcs/ Cavity trays:
 - Expose edge where concealed.
 - Lap and fully bond/ seal sheeting to wall.
 - Dressing of sheeting beyond dpc/ cavity tray (minimum): 50 mm.Bonding/ Sealing: Mastic tape.

K10 Plasterboard dry linings/ partitions/ ceilings

To be read with Preliminaries/ General conditions.

TYPES OF DRY LINING

245 CEILING LINING ON TIMBER^{sw} battens in toilets

- Background: 50x50 sw battens.
 - Metal resilient (acoustic) bars: Not required.
 - Linings: 12 mm plasterboard.
 - Fixings: Contractor's choice.
 - Finishing: Skim coat plaster.
 - Primer/ Sealer: Not required.
 - Accessories: n/a.
- Other requirements: n/a.

275 ENCASEMENT ON TIMBER FRAMING^{to} steel beams

- Timber framework: 44 x 44 mm with noggings at 600 mm maximum centres..
 - Linings: Two layers 12.5 mm plasterboard.
 - Fixing: Nails.
 - Finishing: Skim coat plaster.
 - Primer/ Sealer: Primer to painted areas.
 - Accessories: Metal beads/ stops recommended by board manufacturer .
- Other requirements: .

GENERAL/ PREPARATION

335 ADDITIONAL SUPPORTS

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

COMPONENTS

401 GYPSUM PLASTERBOARD

- Type: To BS 1230-1, type 1.
 - Core density (minimum): 650 kg/m³.
- Exposed surface and edge profiles: Suitable to receive specified finish.

INSTALLATION

435 DRY LININGS GENERALLY

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

445 CEILINGS

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

560 JOINTS BETWEEN BOARDS

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

570 HORIZONTAL JOINTS

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

610 FIXING PLASTERBOARD TO TIMBER

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

FINISHING

650 LEVEL OF DRY LINING ACROSS JOINTS

- Sudden irregularities: Not permitted.
- Joint deviations: Measure from faces of adjacent boards using methods and straightedges (450 mm long with feet/ pads) to BS 8212, clause 3.3.5.
 - Tapered edge joints:
Permissible deviation (maximum) across joints when measured with feet resting on boards: 3 mm.
 - External angles:
Permissible deviation (maximum) for both faces: 4 mm.
 - Internal angles:
Permissible deviation (maximum) for both faces: 5 mm.

670 SEAMLESS JOINTING TO PLASTERBOARDS

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

680 SKIM COAT PLASTER FINISH

- Plaster type As recommended by board manufacturer..
 - Thickness: 2-3 mm.
- Joints: Fill and tape except where coincident with metal beads.
- Finish: Tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks.

692 RIGID BEADS/STOPS

- Internal: To BS EN 13658-1.
External: To BS EN 13658-2.

695 INSTALLING BEADS/ STOPS

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

K13 Rigid sheet fine linings and panelling

To be read with Preliminaries/ General conditions.

TYPES OF LINING AND PANELLING

- 110 WOOD PANELLING to stage wall and elsewhere if indicated on the drawings
- Substrate: n/a.
 - Battens: Softwood free from decay and active insect attack and with no knots wider than half the width of the section.
 - Finished size: to match existing.
 - Moisture content at time of fixing (maximum): 18%.
 - Spacing (centres): to match existing.
 - Method of fixing: Plugged and screwed at 600 mm centres.
 - Panelling:
 - Materials: Generally to BS EN 942.
Wood species: Oak, English (*Quercus robur*) to match existing.
Appearance class: J2.
 - Panels: to match existing.
 - Fire retardant impregnation treatment: not required.
 - Finish (to match approved sample): Two coats of bees wax to match existing.
 - Moisture content at time of fixing: 9-13%.
 - Method of fixing: to match existing.
 - Joint treatment: n/a.
Adhesive: To BS EN 204, type D2 if required.
 - Included features: Cut outs for central brass grille.
 - Accessories: concealed hinges, touch latches and budget lock.
Joinery workmanship: As section Z10.

GENERAL REQUIREMENTS

- 260 ENVIRONMENTAL CONDITIONS
- General requirements prior to starting work specified in this section: Building weathertight; wet trades completed and affected areas dried out.
 - Temperature and humidity before, during and after fixing lining/ panelling: Maintained at levels approximating to those which will prevail after building is occupied.

FABRICATION/ FIXING/ FINISHING

- 310 ACCURACY OF FABRICATION
- Site dimensions: Take as necessary before starting fabrication.
 - Discrepancies with drawings: Report without delay and obtain instructions before proceeding.
 - Permissible deviations for panels:
 - Length: ± 1.5 mm.
 - Width: ± 1.5 mm.
 - Squareness (taking the longer of 2 sides at a corner as a baseline and measuring the deviation of the shorter side from the baseline perpendicular): ± 1.5 mm in 1 m.
 - Flatness (of panels with a core thickness of 12 mm and over, as delivered to site): ± 1 mm under a 600 mm straightedge.

350 FIXING LININGS AND PANELLING

- Setting out: Accurate, true to line and level, free from undulations and lipping, with lines and joints aligned, straight and parallel unless specified otherwise.
- Movement allowance: Adequate for future moisture and temperature movement of boards.
- Fixing of panels: Secure, to prevent pulling away, bowing, or other movement during use.
- Methods of fixing and fasteners: As section Z20 unless specified otherwise.
- Trims: Wherever possible, to be in unjointed lengths between angles or ends of runs.
 - Running joints: Where unavoidable, submit proposals for location and method of jointing.

440A IRONMONGERY

brass piano hinge and budget lock to cut out oak panelling concealing new electrical

480 CLEAR FINISHED WOOD

- Nail holes: Filled with stopping coloured to match wood.
- Prepared surface: Smooth, closed and free from sanding marks.
 - Finish: Smooth, free from brush marks, nibs, sags, runs and other defects.

K21 Wood strip/ board fine flooring/ linings

To be read with Preliminaries/ General conditions.

TYPES OF FLOORING/ LINING

GENERAL/ PREPARATION

280 EXISTING WOOD FLOORING

- Condition: Boards securely fixed and acceptably level. Protruding fasteners punched in or countersunk.

FIXING/ FINISHING

335 TREATED TIMBER

- Surfaces exposed by minor cutting and drilling: Treated with two flood coats of a solution recommended for the purpose by main treatment solution manufacturer.

370 FINISH TO FLOORING

- Exposed fastener heads: Punched or set below surface and filled with stopping to match wood.
- Strips/ Boards: Sanded to give a clean, smooth and flush surface free from score marks.
Finish: 3no coats of lacquer .

L20 Doors/ shutters/ hatches

To be read with Preliminaries/ General conditions.

GENERAL

115 FIRE RESISTING DOORS/ DOORSETS/ ASSEMBLIES

- Evidence of fire performance: Provide certified evidence, in the form of a product conformity certificate, directly relevant fire test report or engineering assessment, that each door/ doorset/ assembly supplied will comply with the specified requirements for fire resistance if tested to BS 476-22, BS EN 1634-1 or BS EN 1634-3. Such certification must cover door and frame materials, glass and glazing materials and their installation, essential and ancillary ironmongery, hinges and seals.

PRODUCTS

410 WOOD DOORSETS- FD30 FIRE RESISTING TO NEW CLOAK ROOM

- Manufacturer: Contractor's choice.
 - Product reference: .
- Door leaf:
 - Facings: to match existing.
 - Lippings: to match existing.
 - Finish as delivered: to be able to match existing.
- Frame and architraves:
 - Wood species: Softwood.
 - Finish as delivered: to be able to match existing.
- Preservative treatment: Not required.
- Glazing details: if applicable to be georgian wired glazing - tbc.
- Ironmongery: to match existing ironmongery.
- Perimeter seals: tbc.
- Other requirements: to be solid core doors with sw beading to form panelling to match existing doors.
 - Fixing: to match existing.

410A WOOD DOORSETSTO TOILETS

- Manufacturer: Contractor's choice.
 - Product reference: .
- Door leaf:
 - Facings: to match existing.
 - Lippings: to match existing.
 - Finish as delivered: to be able to match existing.
- Frame and architraves:
 - Wood species: Softwood.
 - Finish as delivered: to be able to match existing.
- Preservative treatment: Not required.
- Glazing details: n/a.
- Ironmongery: to match existing ironmongery.
- Perimeter seals: tbc.
- Other requirements: to be solid core doors with sw beading to form panelling to match existing doors.
 - Fixing: to match existing.

EXECUTION

710 PROTECTION OF COMPONENTS

- General: Do not deliver to site components that cannot be installed immediately or placed in clean, dry, floored and covered storage.
- Stored components: Stacked on level bearers, separated with spacers to prevent damage by and to projecting ironmongery, beads, etc.

730 PRIMING/ SEALING

- Wood surfaces inaccessible after installation: Primed or sealed as specified before fixing components.

750 FIXING DOORSETS

- Timing: After associated rooms have been made weathertight and the work of wet trades is finished and dried out.

790 FIXING OF WOOD FRAMES

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

810 FIRE RESISTING SMOKE CONTROL DOORS/ DOORSETS

- Gaps between frames and supporting construction: Filled as necessary in accordance with requirements for certification and/ or door/ doorset manufacturer's instructions.

830 FIXING IRONMONGERY GENERALLY

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

840 FIXING IRONMONGERY TO FIRE RESISTING DOOR ASSEMBLIES

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

850 LOCATION OF HINGES

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

L40 General glazing

To be read with Preliminaries/ General conditions.

GENERAL REQUIREMENTS

150 WORKMANSHIP GENERALLY

- Glazing generally: To BS 6262.
- Integrity: Glazing must be wind and watertight under all conditions with full allowance made for deflections and other movements.
- Dimensional tolerances: Panes/ sheets to be within ± 2 mm of specified dimensions.
- Materials:
 - Compatibility: Glass/ plastics, surround materials, sealers, primers and paints/ clear finishes to be used together to be compatible. Avoid contact between glazing panes/ units and alkaline materials such as cement and lime.
 - Protection: Keep materials dry until fixed. Protect insulating glass units and plastics glazing sheets from the sun and other heat sources.

152 PREPARATION

Surrounds, rebates, grooves and beads: Clean and prepare before installing glazing.

155 GLASS GENERALLY

- Standards: To BS 952 and relevant parts of:
 - BS EN 572 for basic soda lime silicate glass.
 - BS EN 1096 for coated glass.
 - BS EN 1748-1 for borosilicate glass.
 - BS EN 1748-2 for ceramic glass.
 - BS EN 1863 for heat strengthened soda lime silicate glass.
 - BS EN 12150 for thermally toughened soda lime silicate safety glass.
 - BS EN 12337 for chemically strengthened soda lime silicate glass.
 - BS EN 13024 for thermally toughened borosilicate safety glass.
 - BS EN ISO 12543 for laminated glass and laminated safety glass.
- Panes/ sheets: Clean and free from obvious scratches, bubbles, cracks, rippling, dimples and other defects.
 - Edges: Generally undamaged. Shells and chips not more than 2 mm deep and extending not more than 5 mm across the surface are acceptable if ground out.

160 LINEAR PATTERNED/ WIRED GLASS

- Alignment: Vertical/ Horizontal as appropriate, and pattern matched across adjacent panes in close proximity.

TYPES OF GLAZING

210A GLAZING GENERALLY

Any replacement glazing is to be installed to match the existing.

550 GLASS MIRRORSto toilets

- Mirror material: Float glass, silvered to give maximum reflection, free from tarnishing, discoloration, scratches and other defects visible in the designed viewing conditions.
 - Thickness: 4 mm .
 - Backing: .
 - Edge treatment: .
- Background: fixed into sw timber frame .
- Fixing method: Dome top wood screws with polyethylene sleeves and washers at 600 mm centres .
- Installation: Fixed accurately and securely without overtightening fasteners, to provide a flat surface giving a distortion free reflection.

M10 Cement based levelling/ wearing screeds

To be read with Preliminaries/General conditions.

TYPES OF SCREED

- 110 BONDED CEMENT:SAND LEVELLING SCREEDS where required
- Substrate: various.
 - Screed construction: Fully bonded.
 - Thickness:
 - Nominal: 30 mm.
 - Minimum: 25 mm.
 - Maximum: 40mm.
 - Mix:
 - Proportions (cement:sand): 1:3-4.5.
 - In situ crushing resistance (ISCR) category: A (3 mm maximum indentation).
 - Flatness/ Surface regularity: Maximum permissible deviation: SR2.
 - Finish: Wood floated, as clause 520.
 - To receive: vinyl sheet flooring.
 - Other requirements: None.

GENERALLY/PREPARATION

- 210 SUITABILITY OF SUBSTRATES
- General:
 - Suitable for specified levels and flatness/ regularity of finished surfaces. Consider permissible minimum and maximum thicknesses of screeds.
 - Sound and free from significant cracks and gaps.
 - Concrete strength: To BS 8204-1, Table 2.
 - Cleanliness: Remove plaster, debris and dirt.
 - Moisture content: To suit screed type. New concrete slabs to receive fully or partially bonded construction must be dried out by exposure to the air for minimum six weeks.
- 215 SURFACE HARDNESS OF SUBSTRATES TO RECEIVE POLYMER MODIFIED WEARING SCREEDS
- General: Substrates must restrain stresses that occur during setting and hardening of wearing screeds.
 - Test for surface hardness: To BS EN 12504-2 using a rebound hammer with compliance values selected from the following:
- | Screed thickness | Rebound hammer value |
|--------------------|----------------------|
| 15 mm or less | Greater than 25 |
| Greater than 15 mm | Greater than 30 |
- Report: Submit details of areas where substrates surface hardness does not comply with these values.
- 220 PROPRIETARY LEVELLING/WEARING SCREEDS
- General: Materials, mix proportions, mixing methods, minimum/maximum thicknesses and workmanship must be in accordance with recommendations of screed manufacturer.
Standard: To BS 8204-3.

255 PIPE DUCTS/ TRUNKING

- Preformed access ducts: Before laying screed, fix securely to substrates and level accurately in relation to finished floor surface.

260 FULLY BONDED CONSTRUCTION

- Preparation: Generally in accordance with BS 8204-1.
- Removing mortar matrix: Shortly before laying screed, expose coarse aggregate over entire area of hardened substrate.
- Texture of surface: Suitable to accept screed and achieve a full bond over complete area.
Bonding coat: Manufacturer's standard.

BATCHING/MIXING

302 CEMENTS

- Cement types: In accordance with BS 8204-1, clause 5.1.3.

305 AGGREGATES

- Sand: To BS EN 13139.
 - Grading limits: In accordance with BS 8204-1, Table B.1.
- Coarse aggregates for fine concrete levelling screeds:
 - Standard: To BS EN 12620.
 - Designation: 4/10.
- Lightweight aggregates: To BS 8204-1, Annex A.

307 ADMIXTURES

- Standard: In accordance with BS 8204-1, Table 1.
Calcium chloride: Do not use in admixtures.

330 MIXING

- Water content: Minimum necessary to achieve full compaction, low enough to prevent excessive water being brought to surface during compaction.
- Mixing: Mix materials thoroughly to uniform consistency. Mixes other than no-fines must be mixed in a suitable forced action mechanical mixer. Do not use a free fall drum type mixer.
- Consistency: Use while sufficiently plastic for full compaction.
Ready-mixed retarded screed mortar: Use within working time and site temperatures

335 IN SITU CRUSHING RESISTANCE (ISCR)

- Standards and category: To BS 8204-1, table 4.
 - Testing of bonded and unbonded screeds: To Annex D.
 - Testing of floating levelling screeds: To Annex E.

340 ADVERSE WEATHER

- Screeds surface temperature: Maintain above 5°C for a minimum of four days after laying.
Hot weather: Prevent premature setting or drying out.

LAYING

345 LEVEL OF SCREED SURFACES

- Permissible deviation: (allowing for thickness of coverings) ± 7 mm from datum.

355 FLATNESS/ SURFACE REGULARITY OF FLOOR SCREEDS

- Standard: To BS 8204-1, Table 5.
- Test: To BS 8204-1, Annex C.
Sudden irregularities: Not permitted.

405 JOINTS IN LEVELLING SCREEDS GENERALLY

- Laying screeds: Lay continuously using 'wet screeds' between strips or bays. Minimize defined joints.
Daywork joints: Form with vertical edge.

FINISHING/CURING

510 FINISHING GENERALLY

- Timing: Carry out all finishing operations at optimum times in relation to setting and hardening of screed material.
- Prohibited treatments to screed surfaces:
 - Wetting to assist surface working.
Sprinkling cement.

530 SMOOTH FLOATED FINISH

Finish: Even texture with no ridges or steps.

650 CURING

- General: Prevent premature drying. Immediately after laying, protect surface from wind, draughts and strong sunlight. As soon as screed has set sufficiently, closely cover with polyethylene sheeting.
- Curing period (minimum): Keep polyethylene sheeting in position for: period recommended by screed manufacturer.
- Drying after curing: Allow screeds to dry gradually. Do not subject screeds to artificial drying conditions that will cause cracking or other shrinkage related problems.

M20 Plastered/ Rendered/ Roughcast coatings

To be read with Preliminaries/ General conditions.

TYPES OF COATING

- 210 LIGHTWEIGHT GYPSUM PLASTER to basement walls where required according to the drawings
- Substrate: as per NBS clause J30/110B.
 - Preparation: Not required - The final coat of Ruberprufe should be blinded with clean sharp sand while still tacky as per NBS clause J30/110B.
 - Manufacturer: Contractor's choice.
 - Undercoats: To BS EN 13279-1.
 - Product reference: Contractor's choice.
 - Thickness (excluding dubbing out and keys): Two coat 13 mm overall.
 - Final coat: Finish plaster to BS EN 13279-1.
 - Product reference: Contractor's choice.
 - Thickness: 2-3 mm.
 - Finish: Smooth.
- Accessories: Beads and stops .
- 280A THISTLE MULTI FINISH
- Manufacturer: British Gypsum Ltd.
 - Web: www.british-gypsum.com.
 - Email: bgtechnical.enquiries@bpb.com.
- Product reference: Thistle Multi Finish

GENERAL

- 413 SAMPLES
- General: Provide representative samples of the following: Replacement mouldings if required.
- 421 SCAFFOLDING
- General: Prevent putlog holes and other breaks in coatings.
- 424 SPECIAL PROTECTION OF HISTORIC PLASTERWORK
- General: Prevent damage and disturbance to retained plasterwork.
Protection methods: Submit proposals.

PREPARING SUBSTRATES

- 510 SUITABILITY OF SUBSTRATES
- Soundness: Free from loose areas and significant cracks and gaps.
 - Cutting, chasing, making good, fixing of conduits and services outlets and the like: Completed.
 - Tolerances: Permitting specified flatness/ regularity of finished coatings.
 - Cleanliness: Free from dirt, dust, efflorescence and mould, and other contaminants incompatible with coatings.
- 541 BONDING AGENT APPLICATION
- General: Apply evenly to substrate to achieve effective bond of plaster/ render coat.
Protect adjacent joinery and other surfaces.

- 551 REMOVAL AND RENEWAL OF EXISTING PLASTER/ RENDER
- Location and extent: Agree, at least on a provisional basis, before work commences. Minimize extent of removal and renewal.
- 566 REMOVING DEFECTIVE EXISTING PLASTER
- Plaster for removal: Detached, soft, friable, badly cracked, affected by efflorescence or otherwise damaged.
 - Hollow, detached areas: Obtain instructions.
 - Stained plaster: Remove.
 - Removing defective plaster. Cut back to a square, sound edge.
 - Faults in substrate (structural deficiencies, damp, etc.): Submit proposals.
 - Cracks:
 - Fine hairline cracking/ crazing: Leave.
 - Other cracks: Cut out to a width of 75 mm (minimum).
 Dust and loose material: Remove from exposed substrates and edges.
- 568 EXISTING DAMP AFFECTED PLASTER/ RENDER
- Plaster affected by rising damp: Remove to a height of 300 mm above highest point reached by damp or 1 m above dpc, whichever is higher.
 - Perished and salt contaminated masonry:
 - Mortar joints: Rake out.
 - Masonry units: Submit proposals.
 - Faults in substrate (structural deficiencies, additional sources of damp, etc.): Submit proposals.
 - Drying out substrates: Establish drying conditions. Leave walls to dry for as long as possible before plastering.
 - Dust and loose material: Remove from exposed substrates and edges.
- 584 RECORD CASTINGS
- Timing: Make castings before commencing repair work, to enable accurate reproductions to be made.
 - Items for casting: Obtain instructions once on site.
 - Identification: Mark clearly to identify original location.
- 587 REPLACING TIMBER LATHS
- Defective plaster and laths: Remove. Prevent disturbance to adjacent sound plaster.
 - Defective laths: Cut back to supporting timbers.
 - Cavities: Keep clear of debris.
 - Supports for laths: Sound and firmly fixed. Provide additional supports where necessary.
 - New lathing: Timber, as clause 626.
- 589 REFIXING SOUND TIMBER LATHS THROUGH PLASTER
- Application of repair: To loose but otherwise sound laths on sound framework.
 - Method: Cut out plaster patches to sound, undercut edges. Screw laths back to framework using screws and washers.
 - Screws: Brass or stainless steel.
 - Washers: Metal to match screws.
 Inner washer: 25mm diameter.
 Outer washer: 38mm diameter; mesh size 1.5mm.
 - Fixing centres: .
 - Replastering: 1:1 gypsum:lime putty.
 - Finish: Flush with existing.

MOULDINGS/ DECORATIVE PLASTERWORK

- 680 FIBROUS PLASTER MOULDINGSif required
- Type: Reproduction of existing.
 - Noggings, bearers, etc. to support mouldings: Accurately position and securely fix.
 - Installation: True to line and level.
 - Fixing: fixed direct to a wall or soffit, or it can be supported from a grid. Special fixing techniques may be required for heavy units.
 - Framing, fixing points and joints: Reinforce.
 - Finishing: Smooth, to correct profile and with flush joints.
- 689 IN SITU RUN PLASTER MOULDINGSif required
- Template profile: Give notice before commencing setting out.
 - Core mix: Retarded 1:3 gypsum:coarse stuff (coarse stuff 1:3 lime:sand).
 - Keying: Key surface of core and undercoats.
 - Mitres: Form as running out work proceeds.
 - Final coats: Run to a consistent profile with sharp arrises.
 - Mix: Gypsum:lime putty 1:2 or 1:1 where a harder mix is required.
 - Keying for enrichments: Lightly scour contact areas of final coat.
 - Finishing: Clean off droppings and clean out mitres.
- 692 REFIXING EXISTING PLASTER MOULDINGS
- Substrates: Accurate, secure and clean.
 - Suction control: Dampen or apply suitable sealer.
 - Installation: True to line and level with abutting mouldings, on solid bed of gypsum based adhesive.
 - Additional fixings: Stainless steel dowels located into rear of moulding and background.
 - Finishing: Smooth, to correct profile and with flush joints.
 - Filler: Plaster of Paris.
- 695 REPRODUCTION OF EXISTING PLASTER MOULDINGS
- 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.
- 697 REPAIRING CRACKS/ STEPS IN PLASTER MOULDINGS
- 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: Gypsum gauged coarse stuff compatible with existing.
 - Key to receive final coat.
 - Final coat: 1:1 gypsum:lime putty.
 - Applied ornaments: Fix accurately using gypsum based adhesive.
- 699 REPAIRING HAND MODELLED PLASTERWORK
- Armatures: Stainless steel to suit the relief and profile of the modelling.
 - New modelling: Lime putty:marble dust:plaster of Paris plus set retarding admixture.

INTERNAL PLASTERING

710 APPLICATION GENERALLY

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

715 FLATNESS/ SURFACE REGULARITY

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

718 JUNCTION OF NEW PLASTERWORK WITH EXISTING

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

725 UNDERCOATS GENERALLY

- General: Rule to an even surface. Cross scratch to provide a key for the next coat.
- Undercoats on metal lathing: Work well into interstices to obtain maximum key.
- Undercoats gauged with Portland cement: Do not apply next coat until drying shrinkage is substantially complete.

742 THIN COAT PLASTER

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

777 SMOOTH FINISH

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

M40 Stone/ concrete/ quarry/ ceramic tiling/ mosaic

To be read with Preliminaries/ General conditions.

TYPES OF TILING/ MOSAIC

110 TILING TOWCs

- Tiles: .
 - Manufacturer/ Supplier: Johnson Tiles.
 - Product reference: Minton Hollins range.
 - Colour: white.
 - Finish: Glazed.
 - Size: 150 x 75.
 - Thickness: .
 - Slip potential:
Slip resistance value (SRV) (minimum)/ Pendulum test value (PTV) (minimum) to BS 7932: Not applicable.
Surface roughness (Rz) (minimum) to BS 1134: Not applicable.
- Background/ Base: contractors choice.
 - Preparation: contractors choice.
- Intermediate substrate: Not required.
- Bedding: Thin bed adhesive - solid.
 - Reinforcement: Not applicable.
 - Adhesive: Contractor's choice.
- Joint width: to match what was there originally.
- Grout: to match what was there originally.
 - Type/ classification: Not applicable.
- Movement joints: at internal corners of all rooms.
- Accessories: Crampton capping tiles at top edge, 150mm long strip tiles at external corners and crampton stop ends.

GENERAL

210 SUITABILITY OF BACKGROUNDS/ BASES

- Background/ base tolerances: To permit specified flatness/ regularity of finished surfaces given the permissible minimum and maximum thickness of bedding.
- New background drying times (minimum):
 - Concrete walls: 6 weeks.
 - Brick/ block walls: 6 weeks.
 - Rendering: 2 weeks.
 - Gypsum plaster: 4 weeks.
- New base drying times (minimum):
 - Concrete slabs: 6 weeks.
 - Cement:sand screeds: 3 weeks.

PREPARATION

310 EXISTING BACKGROUNDS/BASES GENERALLY

- Efflorescence, laitance, dirt and other loose material: Remove.
- Deposits of oil, grease and other materials incompatible with the bedding: Remove.
- Tile, paint and other nonporous surfaces: Clean.
Wet backgrounds: Dry before tiling.

330 EXISTING PLASTER

- Defective areas: Remove plaster that is loose, soft, friable, badly cracked or affected by efflorescence. Cut back to straight horizontal and vertical edges.
Making good: Use plaster or nonshrinking filler.

FIXING

510 FIXING GENERALLY

- Colour/shade: Unintended variations within tiles for use in each area/room are not permitted.
 - Variegated tiles: Mix thoroughly.
- Adhesive: Compatible with background/base. Prime if recommended by adhesive manufacturer.
- Cut tiles: Neat and accurate.
- Fixing: Provide adhesion over entire background/base and tile backs.
- Final appearance: Before bedding material sets, make adjustments necessary to give true, regular appearance to tiles and joints when viewed under final lighting conditions.
Surplus bedding material: Clean from joints and face of tiles without disturbing tiles.

530 SETTING OUT

- Joints: True to line, continuous and without steps.
 - Joints on walls: Horizontal, vertical and aligned round corners.
 - Joints in floors: Parallel to the main axis of the space or specified features.
- Cut tiles: Minimize number, maximize size and locate unobtrusively.
- Joints in adjoining floors and walls: Align.
- Joints in adjoining floors and skirtings: Align.
- Movement joints: Where locations are not indicated, submit proposals.
- Setting out of : Drawing references: .
Setting out of : Submit proposals.

550 FLATNESS/ REGULARITY OF TILING

- Sudden irregularities: Not permitted.
- Deviation of surface: Measure from underside of a 2 m straightedge placed anywhere on surface. The straightedge should not be obstructed by the tiles and no gap should be greater than 3 mm.

650 THIN BED ADHESIVE - RIBBED (WALLS)

- Application: Apply 3 mm floated coat of adhesive to dry background in areas of approximately 1 m². Trowel to ribbed profile.
Tiling: Press tiles firmly onto float coat.

651 THIN BED ADHESIVE - SOLID (WALLS)

- Application: Apply floated coat of adhesive to dry background in areas of about 1 m². Comb surface.
- Tiling: Apply thin even coat of adhesive to backs of dry tiles. Press tiles firmly onto float coat.
Finished adhesive thickness (maximum): 3 mm.

MOVEMENT JOINTS/ GROUTING/ COMPLETION

815 SEALANT MOVEMENT JOINTS IN TILING TO WALLS

- Joints: Extend through tiles and bedding to base/ background. Centre over joints in base/ background.
 - Width: .
- Sealant: contractors choice .
 - Colour: white .
 - Preparation and application: As section Z22.

855 CEMENT:SAND GROUTING MIX

- Grout mix:
 - Cement: Portland cement to BS EN 197-1 type CEM I/42.5.
 - Sand:
 - Joint widths of 6 mm or greater: To BS 1199, table 1, Type B.
 - Joint widths of 3-6 mm: To BS 5385-5, table 2.
 - Proportions (cement:sand): 2–3 mm wide, use 1:1. 3–6 mm wide, use 1:2..
 - Pigment: n/a.
 - Mixing: Mix thoroughly. Use the minimum of clean water needed for workability.

875 GROUTING

- Sequence: Grout when bed/adhesive has set sufficient to prevent disturbance of tiles.
- Joints: 6 mm deep (or depth of tile if less). Free from dust and debris.
- Grouting: Fill joints completely, tool to profile, clean off surface. Leave free from blemishes.
 - Profile: Flush.

M50 Rubber/ plastics/ cork/ lino/ carpet tiling/ sheeting

To be read with Preliminaries/ General conditions.

TYPES OF COVERING

150 SHEETING- LINOLEUM

- Location: for the cloak room and chair store.
- Base: .
 - Preparation: .
- Fabricated underlay: as per manufacturers recommendations.
- Flooring roll: Linoleum to BS EN 548.
 - Manufacturer: Forbo Flooring, PO Box 1, Kirkcaldy, Fife KY1 2SB Tel: 01592 643777
Fax: 01592 643999 E-mail: info.uk@forbo.com Web: www.forbo-flooring.co.uk .
Product reference: Forbo Marmoleum® dual..
 - BS EN 685 class: 23 / 34 / 42..
 - Width: 2000 mm.
 - Thickness: 2.5 mm.
 - Colour/ pattern: tbc.
- Adhesive (and primer if recommended by manufacturer): as per manufacturers recommendations.
- Seam welding: Hot welding with matching coloured rod..
- Accessories: as required.
- Finishing: As clause 820.
 - Other requirements: .

150A SHEETING- LINOLEUM in the toilets

- Preparation:
Altroproof surface damp proof membrane
Everlay underlay – an underlay, normally laid loose, which should only be used with Altro safety flooring, Prismatic Plus and Mondo sheet. It should not be used with AltroSmooth.
- Flooring roll: Homogenous PVC To BS EN 649
Manufacturer: Altro, Works Road, Letchworth, Hertfordshire SG6 1NW. Tel: 01462 707604, Fax: 01462 707504, Email: ge@altro.co.uk Web: www.altro.co.uk
Product reference: Impressionist II
BS EN 685 Class: 43
Width: 2000 mm
Thickness: 2.0 mm
Colour/ pattern: Stucco IP2013 / Canvas IP2009 / Adobe IP2008 / Oasis IP2011 / Arctic IP2012 / Zen IP2015 / Ore IP2004 / Tranquil IP2017 / Aqua IP2018 / Lunar IP2005 / Mineral IP2003 / Ebony IP2001 TBC
Consult Altro Floors for samples and availability of colours.
- Adhesive (and primer if recommended by manufacturer): Altrofix . . . as clause 640
Consult with Altro and insert name of appropriate adhesive
When laying onto Altro Everlay 'A' underlayment, lay floor covering in same direction as underlay, with staggered joints.
Place the material in position on the floor, allowing at least 25 mm each end for trimming, and overlapping at least 15 mm at joints. Cut-in material along joints. Fold (do not roll) the material back along half its length. When adhesive is ready, refold material back onto adhesive. Repeat for second half of material. Roll with a 50 kg roller to ensure full contact and a good bond overall.
- Seam welding: Hot weld with Altro welding rod by forming a cut groove, 3 mm wide by 2/3 the depth of material, evenly along each joint using either Altro hand grooving tool or an automatic grooving machine fitted with diamond blade. Hot-weld using Hot Air Welding Gun (fitted with high speed welding nozzle) and Altro Welding Rod. Select colour of rod to blend with that of the floor covering. Cut off surplus weld rod with spatula. Do not chemical weld and as clause 680
- Accessories:
Stair nosings/trim as clause 750
Skirtings as clause 770
- Finishing: Mop wash or lightly machine scrub with Altroclean 44 or equivalent alkaline cleaner in accordance with clause 820 – Please delete item regarding application of liquid polish in clause 820 if this is not to be applied to floor finish.

170A CARPETING

- Manufacturer and product reference is to be confirmed at a later date. Allow for as per the description of works.

GENERAL REQUIREMENTS

210 WORKMANSHIP GENERALLY

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

220 SAMPLES

Covering samples: Before placing orders, submit representative sample of each type.

250 LAYOUT - ROLL MATERIALS

Setting out of seams: Agree setting out for sheeting types M50/ 150A & 170 .

251 LAYOUT - SEAMS IN ROLL MATERIALS

- Setting out: Minimise occurrences of seams and cross seams.
Cross seams: Not permitted in following locations: n/a.

330 COMMENCEMENT

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

340 CONDITIONING

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

350 ENVIRONMENT

- Temperature and humidity: Before, during and after laying, maintain approximately at levels which will prevail after building is occupied.
Ventilation: Before during and after laying, maintain adequate provision.

PREPARING BASES

410 NEW BASES

- Suitability of bases and conditions within any area: Commencement of laying of coverings will be taken as acceptance of suitability.

420 EXISTING BASES

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

430 NEW WET LAID BASES

- Base drying aids: Not used for at least four days prior to moisture content testing.
- Base moisture content test: Carry out in accordance with BS 5325, Annexe A or BS 8203, Annexe A.
 - Locations for readings: In all corners, along edges, and at various points over area being tested.
- Commencement of laying coverings: Not until all readings show 75% relative humidity or less.

440 SUBSTRATES TO RECEIVE THIN COVERINGS

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

470 BASES FROM WHICH EXISTING FLOOR COVERINGS HAVE BEEN REMOVED

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

- 510 WOOD BLOCK FLOORING
- Substrate: Clean and free from wax with all blocks sound and securely bonded. Fill hollows with smoothing underlayment compound to give smooth, even surface.
 - Missing and loose blocks: Replace and reset in adhesive to match existing. Sand or plane to make level.
- 520 TIMBER BOARDING/ STRIP FLOORING
- Substrate: Boards/ strips securely fixed and acceptably level with no protruding fasteners. Plane, sand or apply smoothing underlayment compound to give a smooth, even surface.

LAYING COVERINGS

- 620 COLOUR CONSISTENCY
- Finished work in any one area/ room: Free from banding or patchiness.
- 640 ADHESIVE FIXING GENERALLY
- Adhesive type: As specified, as recommended by covering/ underlay, manufacturer or as approved.
 - Primer: Type and usage as recommended by adhesive manufacturer.
 - Application: As necessary to achieve good bond.
 - Finished surface: Free from trowel ridges, high spots caused by particles on the substrate, and other irregularities.
- 650 SEAMS
- Patterns: Matched.
Joints: Tight without gaps.
- 670 BORDERS/ AND FEATURE STRIPS IN SHEET MATERIAL
- Curl: Not acceptable.
Corners: Mitre joints.
- 680 SEAM WELDING COVERINGS
- Commencement: At least 24 hours after laying, or after adhesive has set.
Joints: Neat, smooth, strongly bonded, flush with finished surface.
- 720 DOORWAYS
- Joint location: On centre line of door leaf.
- 750A STAIR NOSINGS AND TRIMS to gallery stairs
- Manufacturer: Contractor's choice.
 - Product reference: .
 - Material/ finish: brass.
 - Fixing: Secure, level and with mitred joints. Adjusted to suit thickness of covering with continuous packing strips of hardboard or plywood. Nosings and packing strips bedded in gap-filling adhesive recommended by nosing manufacturer.
Screw fixing with matching plugs: Required.

770 SKIRTINGS

- Types: Self-coved.
- Manufacturer: Altro, Works Road, Letchworth, Hertfordshire SG6 1NW. Tel: 01462 707604, Fax: 01462 707504, Email: ge@altro.co.uk Web: www.altro.co.uk.
 - Product reference: Self-coved Skirting
 - Cove Former: CF20R
 - Capping Seal: C7WHT – White / C8WHT - White.
 - Adhesive: Altrofix 25NF Contact Adhesive.
- Fixing: Secure with top edge straight and parallel with floor.
Corners: Mitre joints.

780 TRAFFICKING AFTER LAYING

- Covering types: all coverings.
Traffic free period: Until adhesive is set.

COMPLETION

820A FINISHING Altro flooring

- Cleaning operations:
 - Wash floor with water containing neutral (pH 6-9) detergent. If necessary, lightly scrub heavily soiled areas.
 - Rinse with clean water, removing surplus to prevent damage to adhesive. Allow to dry.

880 WASTE

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

M52 Decorative papers/ fabrics

To be read with Preliminaries/ General conditions.

TYPES OF COVERING

- 110 COVERING FOR where existing vinyl wall paper has been removed
- Substrate: Existing papered plaster.
 - Preparation: Remove wallpaper. Fill irregularities.
 - Treatment: Contractor's choice Not required.
 - Adhesive: To BS 3046, Type 2.
 - Lining: As covering manufacturer's recommendations.
 - Covering: fabric backed wallpaper.
 - Manufacturer: Muraspec.
Product reference: fabric backed wallpaper.
 - Colour/ pattern: Chateau Range - for the staircases. Astoria Range - for the foyer.
 - Roll width: to fit panels as required.
- Other requirements: n/a.

GENERALLY

- 220 SAMPLES
- General: Submit a representative sample of each type of covering before placing orders.
Size (minimum): Roll width x A length to include pattern repeat.
- 225 MARKING
- Requirement: In accordance with BS EN 266, wallcoverings must state the following on each roll:
 - Supplier.
 - Product description.
 - Pattern/ batch number.
 - Grade of colour fastness to light.
 - Means of application.
- Type of adhesive to be used.
- 230 EXTRA MATERIAL
- General: Provide extra coverings in clearly identified complete rolls/ lengths as follows:
Covering type M52/110: 5% extra.
 - Ordering: At same time as installed material. Hand over to Employer at completion or when otherwise agreed.
- 241 ENVIRONMENT
- Conditions: During hanging and drying of linings/ coverings, maintain working area ambient temperature and humidity levels approximate to those proposed in service.
- 251 CONDITIONING
- General: Unwrap coverings and allow to acclimatize in working area as follows: as per manufacturers instructions.

PREPARATION

310 PREPARATION GENERALLY

- Preparation materials: Types recommended by their manufacturers and covering manufacturer for situation and substrate being prepared.
- Substrates: Sufficiently dry in depth to suit covering to be hung.
- Efflorescence salts: Remove.
- Dirt, grease and oil: Remove. Give notice if contamination of substrates has occurred.
- Substrate irregularities: Fill cracks, joints, holes and other depressions with stoppers/ fillers. Work well in and finish off flush with surface. Abrade to a smooth finish.
- Dust, particles and residues from abrasion: Remove.

330 FIXTURES AND FITTINGS

- Before commencing work: Remove the following: As drawings if required.
- On completion of work: Clean and refix when coverings are dry.

350 PAPER/ FABRIC COVERED SUBSTRATES

- Existing coverings: Remove by wet or dry stripping.
- Old adhesive and size: Remove by washing.
- Significant loose or damaged plaster or other degradation of substrates: If revealed, give notice.

360 VINYL COVERED SUBSTRATES

- Existing covering: Remove peelable vinyl surface.
- Paper base to vinyl: May be retained as a lining if in good condition and firmly adhering. Stick down lifting edges and corners.

370 ORGANIC GROWTHS

- Loose growths and infected coatings/ decorations: Remove and dispose of.
- Treatment biocide: Apply appropriate solution to growth areas and surrounding surfaces.
- Dead growth: Remove and dispose of.
- Residual effect biocide: Apply appropriate solution to inhibit re-establishment of growths.
- Biocides: Types listed in current Health and Safety Executive (HSE) 'Pesticides', Part B, as surface biocides.

380 SIZE/ SEALER

- Absorbent substrates: Apply one coat of a dilute solution of adhesive where recommended by covering manufacturer.

HANGING

420 HANGING GENERALLY

- Coatings on adjacent surfaces:
 - Complete and dry before commencement of hanging coverings.
 - Efflorescence salts: Ensure no recurrence.
- Sequence of hanging coverings:
 - Apply to ceilings before walls.
 - Commence adjacent to main source of natural light.
 - From centre of feature and isolated walls.
- Surplus adhesive: Carefully remove from face of coverings, adjacent surfaces and fittings whilst still wet.
- Completed coverings: Securely adhered, smooth and free of air bubbles, wrinkles, gaps, tears, adhesive marks and stains. Joints truly vertical/ horizontal and straight.

450 SETTING OUT

- Approval of setting out: Obtain before commencement of hanging coverings, for the following: Covering type M52/110.

480 LININGS

- Type and weight: To suit coverings and substrates.
- Hang lengths: With neat butt joints; do not overlap.
Drying period: Leave for 24 hours before hanging coverings.

490 COVERINGS

- Svelged coverings: Trim to a true straight edge before hanging, unless overlap joints are recommended by manufacturer.
- Hanging lengths:
 - Wall coverings: Vertical.
 - Ceiling coverings: Parallel to main window wall.

500 JOINTS IN COVERINGS

- Butt joints: Hang lengths with neat butt joints generally.
- Overlap joints: Hang lengths with neat overlap joints only where recommended by covering manufacturer. Cut through joints when stable to a true straight edge, without damaging substrate, and bond joints.
- Cross joints: Hang lengths in one piece generally. Cross joints are only permitted where single lengths are impractical.

520 SHADING

- Matching: Ensure colour consistency of adjacent lengths.
- Hanging lengths: Use in sequence as cut from roll.
- Alternate lengths: Do not reverse unless recommended by covering manufacturer.
- Shade variation: Check after hanging first three lengths. If variation occurs, give notice before proceeding.

530 PATTERN

- Patterned coverings: Accurately align and match.
Mismatches: Anticipate and obtain approval for locations.

M60 Painting/clear finishing

To be read with Preliminaries/General conditions.

COATING SYSTEMS

- 110A ICI PAINTS NBS SPECIFICATION please see attached ICI paint specification
- 114BAAF Building Area: All previously painted ceiling beds, uppere walls and mouldings
Manufacturer - ICI Trade Paints: Dulux
Surface(s): Painted Wall & Ceiling Surfaces
Preparation and Application: System D14 and ICI Trade Paints SWI.
Number of Finishing Coats: 2
 - 114RABG Building Area: All previously painted walls to stairwells and landings
Manufacturer - ICI Trade Paints: Dulux
Surface(s): Painted Wall & Ceiling Surfaces
Preparation and Application: System D261S and ICI Trade Paints SWI.
Number of Finishing Coats: 2
 - Building Area: All previously 'papered' walls etc.
Manufacturer - ICI Trade Paints: Dulux
Surface(s): Wall & Ceiling Surfaces for Wallcoverings
Preparation and Application: System D950 and ICI Trade Paints SWI.
Number of Finishing Coats: 0
 - 110FABF Building Area: All previously painted walls to toilets, cloakroom etc.
Manufacturer - ICI Trade Paints: Dulux
Surface(s): Painted Wall & Ceiling Surfaces
Preparation and Application: System D95S and ICI Trade Paints SWI.
Number of Finishing Coats: 2
 - 110CAAG Building Area: All previously painted timber joinery to inc: architraves, skirtings, doors etc.
Manufacturer - ICI Trade Paints: Dulux
Surface(s): Non-Resinous Softwood, Hardwood etc.
Preparation and Application: System D1041S and ICI Trade Paints SWI.
Number of Finishing Coats: 2
 - 110CACV Building Area: All previously painted 'crittal' style windows etc.
Manufacturer - ICI Trade Paints: Dulux
Surface(s): Ferrous
Preparation and Application: System M1967ALK and ICI Trade Paints SWI.
Number of Finishing Coats: 2
 - 111KAAG Building Area: All previously 'varnished' timber joinery (not polished / oiled)
Manufacturer - ICI Trade Paints: Dulux
Surface(s): Non-Resinous Softwood, Hardwood etc.
Preparation and Application: System D1094 and ICI Trade Paints SWI.
Number of Finishing Coats: 2

N10 General fixtures/ furnishings/ equipment

To be read with Preliminaries/General conditions.

PRODUCTS

235 CURTAINSto stage

- Manufacturer: n/a.
 - Product reference: n/a.
- Standard: To BS 5867-1 and -2.
- Colour/ Pattern: n/a.
- Other requirements: take down existing drapes and pelmet curtains. Overhaul curtain track. Dry clean curtains and re-hang. Remove all other stage curtains.

235A DRAPESunderside of gallery

- Manufacturer: contractors choice.
 - Product reference: plain dyed velveteen.
- Standard: To BS 5867-1 and -2.
- Colour/ Pattern: n/a.
- Other requirements: to match existing in colour, quality and texture. This is to be hung on a new stainless steel curtain track fixed to the underside of the gallery.

N13 Sanitary appliances and fittings

To be read with Preliminaries/ General conditions.

PRODUCTS

300A WCS AND CISTERNS

- Type: Washdown pan with exposed high level cistern
- Pan:
 - Standards: Not applicable
 - Manufacturer: Twyford Bathrooms, Lawton Road, Alsager, Stoke-on-Trent, Staffordshire ST7 2DF. Tel: 01270 879777 Fax: 01270 873864 Web: www.twyfordbathrooms.com
 - Product reference: Chantal Ref: CN1138
 - Material: Vitreous china
 - Colour: White WH
- Seat and cover:
 - Not required due to reusing existing timber seats that are to be cleaned and polished
- Pan connector:
 - Standard: To BS 5627.
 - Manufacturer: Twyford Bathrooms, as above
 - Product reference:
WF1241WH – S trap connector.
 - Colour: White WH
- Cistern:
 - Standard: Not applicable
 - Manufacturer: Twyford Bathrooms, as above
 - Product reference: CN2670WH Chantal high level cistern
 - Chantal High Level Kit Ref: CF8605CP – supplied with chrome plated lever, brackets and flush pipe.
 - Material: Vitreous china
 - Colour and finish: Soft Cream SC/ Soft White SW/ White WH
- Flushing arrangement: Valveless cistern siphon
 - Manufacturer: Twyford Bathrooms, as above
 - Product reference: As supplied
 - Operation control:
 - Lever and chain pull chrome plated – Standard for CF8605CP kit.
- Water supply connection: Side supply
 - Flush volume: 6 litres
- Flush pipe: Exposed
 - Manufacturer: Twyford Bathrooms, as above
 - Product reference: As supplied
 - Material: As supplied

311 DOCUMENT M PACKAGES

- Manufacturer: Twyford Bathrooms, Lawton Road, Alsager, Stoke-on-Trent, Staffordshire ST7 2DF. Tel: 01270 879777 Fax: 01270 873864 Web: www.twyfordbathrooms.com
 - Product reference: Doc M rimless super pack with white grab rails and seat PK8146WH.
 - Pan connector S Trap (White) WF1241WH.
 - Type approval certificate: Submit.

- 315 URINALS AND AUTO FLUSHING CISTERNSto first floor male wcs
- Urinals:
 - Standard: n/a.
 - Manufacturer: Twyford Bathrooms, Lawton Road, Alsager, Stoke-on-Trent, Staffordshire ST7 2DF. Tel: 01270 879777 Fax: 01270 873864 Web: www.twyfordbathrooms.com .
Product reference: Exposed Slab Urinal 2 Person Pack Ref: FC5102WH
Comprising 2 urinal slabs, 1 RH end, 1 LH end, 1 division and 2 waste outlets.
 - Material: Enamelled fireclay – White WH .
 - Wastes: Grating – 1 per slab unit.
 - Standards: To BS EN 274-1, -2 and -3.
 - Manufacturer: Twyford Bathrooms as above.
Product reference: Urinal waste Ref: WF9371SS.
 - Size: 1½" BSP.
 - Material: Stainless steel.
 - Tail: Unslotted.
 - Traps: Consult Twyford Bathrooms technical literature for details.
 - Standards: To BS EN 274-1, -2 and -3.
 - Manufacturer: .
Product reference: .
 - Size: .
 - Material: .
 - Depth of seal (minimum): 75 mm.
 - Cistern, complete with automatic siphon, lid, supports and fixings: .
 - Standard: To BS 1876.
 - Manufacturer: Twyford Bathrooms as above.
Product reference: 1 no Ref: CX8611WH – 1 and 2 stall installations, flush capacity 4.5 litres..
 - Material: White vitreous china.
 - Flush volume: 4.5.
 - Operating control: Automatic.
 - Flush pipe: Exposed.
Product reference: 2 stall Ref: SS6152SS.
Material: Stainless steel.
 - Accessories: Installation kit comprising black tile treads, white riser tiles and Fireclay grout
Ref: FC9202XX – Up to 2 persons.
- 315A URINAL CISTERNSto existing urinals
- Additional cistern, flushpipe/spreaders for 5 existing 5 stall urinal Cistern - CX8613WH (china)
Flushpipe/spreaders 5 person SS6155SS

335 WASH BASINS

- Manufacturer: Twyford Bathrooms, Lawton Road, Alsager, Stoke-on-Trent, Staffordshire ST7 2DF. Tel: 01270 879777 Fax: 01270 873864 Web: www.twyfordbathrooms.com .
 - Product reference: Clarice 580 Ref: CL4212 – for 2 tap holes.
- Size: 580 x 455 mm.
- Material: Vitreous china
Colour: White WH .
- Tap/ Chainstay/ Overflow holes: 2 tap holes with overflow and chain stay.
- Water supply fittings: .
 - Manufacturer: Twyford Bathrooms as above.
Product reference: Manhattan chrome plated ½" basin pillar taps (pair) with cross head handles Ref: MH5205CP.
 - Operation: Manual.
- Wastes: Plug waste.
 - Standards: To BS EN 274-1, -2 and -3.
 - Manufacturer: Twyford Bathrooms as above.
Product reference: chain waste 1.25x89mm slotted (11 CS) Crome Plated.
 - Size: 1.25x89mm.
 - Material: Crome Plated.
 - Tail: Slotted for overflow.
- Traps: .
 - Standards: To BS EN 274-1, -2 and -3.
 - Manufacturer: Twyford Bathrooms as above.
Product reference: White plastics bottle P trap Ref: WF 8482 XX.
 - Size: 1¼" .
 - Material: Plastic.
 - Depth of seal (minimum): 75 mm.
- Accessories: Pedestal Ref: CL4910
Colour: White WH .

442 PAPER TOWEL DISPENSERS

- Manufacturer: Initial Washroom Solutions. Bridge House, Mathisen Way, Colinbrook, Slough, SL3 0HH, Tel: 01753 766 800. Fax: 020 8868 1072. Email: sales@initialwashrooms.co.uk Web: www.initialwashrooms.co.uk .
 - Product reference: Initial Interfold Hand Towel System TBC with English Heritage before supplying and fitting.
- Material: Stainless steel.
Finish: Brushed finish.

458 SOAP DISPENSERS

- Manufacturer: Initial Washroom Solutions. Bridge House, Mathisen Way, Colinbrook, Slough, SL3 0HH, Tel: 01753 766 800. Fax: 020 8868 1072. Email: sales@initialwashrooms.co.uk Web: www.initialwashrooms.co.uk .
 - Product reference: Initial Tork Liquid Soap Dispenser TBC with English Heritage before supplying and fitting.
- Material: Stainless steel.
Finish: Brushed finish.

462 TOILET PAPER HOLDERSto match the existing where required

- Manufacturer: .
 - Product reference: .
- Material/ finish: .
Finish: .

- 472 WARM AIR HAND DRIERS 2no in each basement toilet and 1no in all other toilets
- Manufacturer: Initial Washroom Solutions. Bridge House, Mathisen Way, Colinbrook, Slough, SL3 0HH, Tel: 01753 766 800. Fax: 020 8868 1072. Email: sales@initialwashrooms.co.uk Web: www.initialwashrooms.co.uk .
 - Product reference: Initial Whisper Warm Air Dryer. Material: Mild steel with stainless steel cover
Finish: Brushed finish.
Electrical supply: 240v – 1.6kw.

- 474 WASTE BINS
- Manufacturer: Initial Washroom Solutions. Bridge House, Mathisen Way, Colinbrook, Slough, SL3 0HH, Tel: 01753 766 800. Fax: 020 8868 1072. Email: sales@initialwashrooms.co.uk Web: www.initialwashrooms.co.uk.
 - Product reference: Initial Brushed Stainless Steel Waste Bin. TBC by English Heritage before supplying and fitting.
 - Material: Stainless steel.
Finish: Brushed finish.

EXECUTION

- 610 INSTALLATION GENERALLY
- Assembly and fixing: Surfaces designed to falls to drain as intended.
 - Fasteners: Nonferrous or stainless steel.
 - Supply and discharge pipework: Fix before appliances.
 - Fixing: Fix appliances securely to structure. Do not support on pipework.
 - Jointing and bedding compounds: Recommended by manufacturers of appliances, accessories and pipes being jointed or bedded.
 - Appliances: Do not use. Do not stand on appliances.
 - On completion: Components and accessories working correctly with no leaks.
Labels and stickers: Remove.
- 620 NOGGINGS AND BEARERS
- Noggings, bearers, etc. to support sanitary appliances and fittings: Position accurately. Fix securely.
- 630 TILED BACKGROUNDS OTHER THAN SPLASHBACKS
- Timing: Complete before fixing appliances.
Fixing appliances: Do not overstress tiles.
- 650 INSTALLING WC 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.
- 660 INSTALLING SLAB URINALS
- Waterproofing of walls and floor (specified elsewhere): Completed before fixing urinal components.
 - Gap between components: 3 mm.
 - Space behind channels and slabs: Grout with 1:5 cement:sand grout.
 - Pointing: Rake out joints to 10 mm depth. Point flush with waterproof jointing compound recommended by urinal manufacturer.

670 INSTALLING CISTERNS

- Cistern operating components: Obtain from cistern manufacturer.
 - Float operated valve: Matched to pressure of water supply.
- Overflow pipe: Fixed to falls and located to give visible warning of discharge.
 - Location: Agreed, where not shown on drawings.

710 INSTALLING TAPS

- Fixing: Secure against twisting.
- Seal with appliance: Watertight.
 - Positioning: Hot tap to left of cold tap as viewed by user of appliance.

720 INSTALLING WASTES AND OVERFLOWS

- Bedding: Waterproof jointing compound.
 - Fixing: With resilient washer between appliance and backnut.

755 SEALANT BEDDING AND POINTING

- Bedding: .
 - Pointing: Joints between appliances and splashbacks, walls and floors. .

P20 Unframed isolated trims/ skirtings/ sundry items

To be read with Preliminaries/ General conditions

- 200 MEDIUM DENSITY FIBREBOARD in the chair store
- Manufacturer: Contractor's choice.
 - Product reference: Contractor's choice.
 - Standard: To BS EN 622-5.
 - Type: MDF.H - needs to be waterproof.
 - Formaldehyde class: To BS EN 622-1, Class E1.
 - Fire rating: Class 0 as defined in Building Regulations.
 - Thickness: 15 mm.
 - Edges: n/a.
 - Finish: Prepared and primed as section M60 .
 - Support/ Fixing: timber stud as per drawing 040.
- 200A MEDIUM DENSITY FIBREBOARD for stage screen
- Manufacturer: Contractor's choice.
 - Product reference: Contractor's choice.
 - Standard: To BS EN 622-5.
 - Type: MDF.
 - Formaldehyde class: To BS EN 622-1, Class E1.
 - Fire rating: Class 0 as defined in Building Regulations.
 - Thickness: 12 mm.
 - Edges: n/a.
 - Finish: Prepared and primed as section M60 .
 - Support/ Fixing: 75x75 sw framing.
- 240 PLYWOOD as required on drawings
- Manufacturer: Contractor's choice.
 - Product reference: Marine ply.
 - Face ply species: Contractor's choice.
 - Appearance class to BS EN 635: Class I/II.
 - Bond quality to BS EN 314-2: Class 1.
 - Fire rating: Not applicable.
 - Thickness: 15mm.
 - Edges: .
 - Finish: Prepared and primed as section M60 .
 - Support/ Fixing: Brass cups and screws at 450 mm centres stud or as shown on drawings.

EXECUTION

- 510 INSTALLATION GENERALLY
- Joinery workmanship: As section Z10.
 - Metal workmanship: As section Z11.
 - Methods of fixing and fasteners: As section Z20 where not specified.
 - Straight runs: To be in one piece, or in long lengths with as few joints as possible.
 - Running joints: Location and method of forming to be agreed where not detailed.
 - Joints at angles: Mitre, unless shown otherwise.
 - Position and level: To be agreed where not detailed.

P21 Door/ window ironmongery

To be read with Preliminaries/ General conditions.

GENERAL

120 IRONMONGERY RANGE SELECTED BY CONTRACTOR

- Source: Single co-ordinated range.
- Notification: Submit details of selected range, manufacturer and/ or supplier.
- Principal material/ finish: to match existing - samples to be obtain where required .
Items unavailable within selected range: Submit proposals.

140 SAMPLES

- General: Before placing orders with suppliers submit labelled samples of the following: any ironmongery required .
 - Conformity: Retain samples on site for the duration of the contract. Ensure conformity of ironmongery as delivered with labelled samples.

320 DOOR HINGESto match existing

- Manufacturer: Contractor's choice .
 - Product reference: .
- Type: to match .
- Size: .
- Material/ finish: to match .
Other requirements: .

320A DOOR HINGES

- where required these are to fit in with the existing. These will need to be approved by English Heritage before supplying and fitting

410A OVERHEAD DOOR CLOSERSwhere required

- where required these are to fit in with the existing. These will need to be approved by English Heritage before supplying and fitting.

515A DOOR LOCKS

- where required these are to fit in with the existing. These will need to be approved by English Heritage before supplying and fitting.

P31 Holes, chases, covers and supports for services

To be read with Preliminaries/ General conditions.

EXECUTION

620 HOLES AND CHASES IN IN SITU CONCRETE

- Cast in: Holes larger than 10 mm diameter and chases.
- Cutting and drilling:
 - Permitted for holes not larger than 10 mm diameter.
 - Not permitted for holes larger than 10 mm diameter except as indicated on drawings.

650 HOLES, RECESSES AND CHASES IN MASONRY

- Locations: To maintain integrity of strength, stability and sound resistance of construction.
- Sizes: Minimum needed to accommodate services.
 - Holes (maximum): 300 x 300 mm.
- Walls of hollow or cellular blocks: Do not chase.
- Walls of other materials:
 - Vertical chases: No deeper than one third of single leaf thickness, excluding finishes.
 - Horizontal or raking chases: No longer than 1 m. No deeper than one sixth of the single leaf thickness, excluding finishes.
- Chases and recesses: Do not set back to back. Offset by a clear distance at least equal to the wall thickness.
- Cutting: Do not cut until mortar is fully set. Cut carefully and neatly. Avoid spalling, cracking and other damage to surrounding structure.

670 NOTCHES AND HOLES IN STRUCTURAL TIMBER

- General: Avoid if possible.
- Sizes: Minimum needed to accommodate services.
- Position: Do not locate near knots or other defects.
- Notches and holes in same joist: Minimum 100 mm apart horizontally.
- Notches in joists: Locate at top. Form by sawing down to a drilled hole.
 - Depth (maximum): 0.125 x joist depth.
 - Distance from supports: Between 0.07 and 0.25 x span.
- Holes in joists: Locate on neutral axis.
 - Diameter (maximum): 0.25 x joist depth.
 - Centres (minimum): 3 x diameter of largest hole.
 - Distance from supports: Between 0.25 and 0.4 of span.
- Notches in roof rafters, struts and truss members: Not permitted.
- Holes in struts and columns: Locate on neutral axis.
 - Diameter (maximum): 0.25 x minimum width of member.
 - Centres (minimum): 3 x diameter of largest hole.
 - Distance from ends: Between 0.25 and 0.4 of span

R11 Above ground foul drainage systems

To be read with Preliminaries/ General conditions.

GENERAL

115 ABOVE GROUND FOUL DRAINAGE SYSTEM

- Sanitary and floor drainage outlets: Sanitary fittings as section N13.
- Waste pipework: Plastics.
- Discharge stack and branch pipework: n/a.
- Separate ventilating pipework: n/a.
- Accessories: n/a.

Disposal: To below ground drainage as section R12.

SYSTEM PERFORMANCE

210 DESIGN

- Design: Complete the design of the above ground foul drainage system.
- Standards: To BS EN 12056-1 and BS EN 12056-2, and in accordance with BS EN 12056-2 National Annexes NA-NG.
 - System type to BS EN 12056-2: System III.
- Proposals: Submit drawings, technical information, calculations and manufacturers' literature.

220 COLLECTION AND DISTRIBUTION OF FOUL WATER

- General: Quick, quiet and complete, self-cleansing in normal use, without blockage, crossflow, backfall, leakage, odours, noise nuisance or risk to health.
- Pressure fluctuations in pipework (maximum): ± 38 mm water gauge.
 - Water seal retained in traps (minimum): 25 mm.

EXECUTION

601 INSTALLATION GENERALLY

- Standard: To BS EN 12056-5.
- Components: From the same manufacturer for each type of pipework.
- Electrolytic corrosion: Avoid contact between dissimilar metals where corrosion may occur.
- Plastics and galvanized steel pipes: Do not bend.
- Allowance for thermal and building movement: Provide and maintain clearance as fixing and jointing proceeds.
- Concealed or inaccessible surfaces: Decorate before starting work specified in this section.
- Protection:
 - Purpose made temporary caps: Fit to prevent ingress of debris.

605 PIPE ROUTES

- General: The shortest practical, with as few bends as possible.
 - Bends in wet portion of soil stacks: Not permitted.
- Routes not shown on drawings: Submit proposals before commencing work.

610 FIXING PIPEWORK

- Pipework: Fix securely plumb and/ or true to line. Fix discharge stack pipes at or close below socket collar or coupling.
- Branches and low gradient sections: Fix with uniform and adequate falls to drain efficiently.
- Externally socketed pipes and fittings: Fix with sockets facing upstream.
- Additional supports: Provide as necessary to support junctions and changes in direction.
- Vertical pipes: Provide a load bearing support not less than every storey level. Tighten fixings as work proceeds so that every storey is self supporting.
- Wall and floor penetrations: Isolate pipework from structure, e.g. with pipe sleeves.
 - Masking plates: Fix at penetrations if visible in the finished work.
 - Expansion joint sockets: Fix rigidly to the building.

630 JOINTING PIPEWORK - GENERALLY

- General: Joint with materials, fittings and techniques that will make effective and durable connections.
- Jointing differing pipework systems: With adaptors intended for the purpose.
- Cut ends of pipes: Clean and square. Remove burrs and swarf. Chamfer pipe ends before inserting into ring seal sockets.
- Jointing or mating surfaces: Clean and, where necessary, lubricate immediately before assembly.
- Junctions: Form with fittings intended for the purpose.
- Jointing material: Do not allow it to project into bore of pipes and fittings.
 - Surplus flux, solvent jointing materials and cement: Remove from joints.

705 ACCESS FOR TESTING AND MAINTENANCE

- General: Install pipework with adequate clearance to permit testing, cleaning and maintenance, including painting where necessary.
 - Access fittings and rodding eyes: Position to avoid obstruction.

COMPLETION

900 TESTING GENERALLY

- Dates for testing: Give notice.
 - Period of notice (minimum): 2 working days.
- Preparation:
 - Pipework: Securely fixed and free from obstruction and debris.
 - Traps: Filled with clean water.
- Testing:
 - Supply clean water, assistance and apparatus.
 - Do not use smoke to trace leaks.
- Records: Submit a record of tests.

905 PIPEWORK AIRTIGHTNESS TEST

- Preparation:
 - Open ends of pipework: Temporarily seal using plugs.
 - Test apparatus: Connect a 'U' tube water gauge and air pump to pipework via a plug or through trap of an appliance.
- Testing: Pump air into pipework until gauge registers 38 mm.
- Required performance: Pressure of 38 mm is to be maintained without loss for at least three minutes.

915 PREHANDOVER CHECKS

- Temporary caps: Remove.
- Permanent blanking caps, access covers, rodding eyes, floor gratings and the like: Secure complete with fixings.

X12 Vertical platform lift systems

To be read with Preliminaries/ General conditions

GENERAL

- 110A VERTICAL PASSENGER LIFT TO ENTRANCE LOBBY AS PER DRAWINGS
- Landmark Lifts - offer reference LE 2513-08 rev A for a new 8 person passenger lift
 - Stainless Steel framed glass doors
Contact is Simon Mitchell 07974 562324
- 110B ENTRANCE PLATFORM LIFT TO ENTRANCE LOBBY AS PER DRAWINGS
- Landmark Lifts - a new low up disabled access platform lift
Contact is Simon Mitchell 07974 562324

SYSTEM PERFORMANCE

PRODUCTS

EXECUTION

- 630 LAYOUT AND LOCATION
General: As per drawings.

COMPLETION

- 910 TESTING AND COMMISSIONING
- Standards: as per manufacturers guidance.
 - Operational tests: Undertake.
 - Test certificate: Submit.
Number of copies: 2 hard copies and 1 electronic copy.
- 920 ELECTRICAL INSPECTION AND TESTING
Electrical inspection and testing: .
- 930 NOTICES AND INSTRUCTIONS
- Standard: as per manufacturers guidance.
 - Emergency lift evacuation procedure: Include within building health and safety file.
 - Wall mounted single line diagrams: Required.
 - Content: Describe the power distribution system serving the lift. Include power sources, points of isolation and device ratings.
 - Circuit charts for switchgear associated with the lift system: Required.
 - Instruction manual: Required.
 - Content: Drawings and diagrams necessary for normal use of the lift, emergency use, rescue, maintenance, repair and periodic checking.
Maintenance instructions: To BS EN 13015.
- 935 EQUIPMENT LABELLING
- Switches, controls, enclosures and terminations: Clearly and indelibly label describing their purpose. Identify the off position.

970 DOCUMENTATION

- Operation and maintenance instructions: Submit.
- Record drawings: Submit.
- Certificates: Submit.
 - Number of copies: 2.
- Instruction manual: Submit.
 - Number of copies: 2.
- Log book: Individual for each lift.
 - Type: Hard back cover embossed with the lift name and unique lift identification reference with A4 lined paper, minimum 100 pages.

975 TRAINING

- Timing: Before completion.
- Scope to include:
 - Daily lift operation.
 - Routine and general maintenance.Emergency passenger release procedure.

980 MAINTENANCE

- Servicing and maintenance: Undertake.
 - Duration: Until 12 months after Practical Completion.

**ICI Paints**

Wexham Road
Slough
Berkshire SL2 5DS
England

Switchboard (01753) 550000
Fax (01753) 578218

12 September 2008

ICI Reference: 100501640

Roger Stong
Mouchel - North London Property
Unit 311 Highgate Studios
53-79 Highgate Road
Kentish Town
London
NW5 1TL

Dear Roger

**Re: The Auditorium, Islington Town Hall
Upper Street, Islington, London, N1**

Following your recent request, it is my pleasure to enclose the systems that I have prepared for The Auditorium. I trust that the systems are self-explanatory and fully cover the areas and substrates requested.

Important Notes

In order to achieve the optimum results it is extremely important to adhere to the systems and Site Work Instructions v5 quoted. Please note that ICI Paints will not accept responsibility for any amendments to or unauthorised usage of the wording contained in the system sheets or in the Site Work Instructions v5.

Prior to the start of the painting contract, Client and Painting Contractor must agree arrangements with regard to the Site Work Instructions v5 clauses listed below.

- | | |
|---------------------------------|------------------------------------------------|
| 1. Section 2: Conditions of Use | Building Repairs/Prior to Paint work |
| 2. Section 2: Conditions of Use | Responsibility to Confirm Surface as Specified |
| 3. Section 6: Colour | All Clauses |

To ensure the smooth implementation of the project I would be grateful if you could complete the attached form once you have appointed a Main Contractor and/or Painting Contractor and return it to me at the above address.

If I can be of any further help, I can be contacted on 0788 543 3976.

Yours sincerely,

Tony Welham
Trade Specifier Account Manager
Fax: 0149 448 2433
e-mail: tony_welham@ici.com

LEGAL DECLARATION AND WARNING REGARDING COPYRIGHT

This "Prospec" Specification document is, and remains, the property of Imperial Chemical Industries Plc (ICI) and is loaned on condition that it is used solely to specify products manufactured by ICI and its affiliates and on condition that it shall not be copied in whole nor in part nor re-utilised in whole or in part except with the permission of ICI and shall be returned to ICI on demand. ICI reserve the right to charge for the loan of the specification if it is used in contravention of the above conditions. 'Prospec' is provided to the client on the condition that it is used solely as specified. No alterations or editing of 'Prospec' may be made without the express prior written permission of ICI. ICI will not accept responsibility for any unauthorised amendments or usage of the systems or Site Work Instructions contained in 'Prospec'.

Project Notification

From: Roger Stong
Mouchel - North London Property
Unit 311 Highgate Studios
53-79 Highgate Road
Kentish Town
London
NW5 1TL

To: Tony Welham
Company: ICI Paints
Fax: 0149 448 2433
Date:
Time: Pages:

Please note that I have specified ICI Paints systems on the project listed below. In order to ensure the smooth implementation of this specification will you please inform your local ICI Account Manager in order that he can provide commercial and technical assistance as appropriate.

Project Title and Address**ICI Ref.**

The Auditorium
Islington Town Hall
Upper Street
Islington
London
N1

100501640

Main Contractor for 100501640**Painting Sub-Contractor for 100501640**

Contact Name:
Address:

Contact Name:
Address:

Telephone:

Telephone:

100501640 Contract Start Date:

100501640 Painting Start Date:

100501640 Painting Finish Date:

100501640 Comments:

Data Protection

If you would **not** like ICI plc or it's group companies to pass on your details to third parties who may contact you with offers and services that may be of interest to you, please tick here [].

Specification



**Painting Systems
For
Mouchel - North London Property
The Auditorium**

Project Ref: 100501640
Roger Stong
Mouchel - North London Property
Unit 311 Highgate Studios
53-79 Highgate Road
Kentish Town
London
NW5 1TL

12 September 2008

Contents

Covering Letter	1
Project Notification Form	2
Front Page	3
Table of Contents	4
Paint Schedule	5
Painting Systems	6
All previously painted ceiling beds, upper walls and mouldings	6
All previously painted walls to stairwells and landings	8
All previously 'papered' walls etc.	10
All previously painted walls to toilets, cloakroom etc.	11
All previously painted timber joinery to inc: architraves, skirtings, doors etc.	13
All previously painted 'crittal' style windows etc.	15
All previously 'varnished' timber joinery (not polished / oiled)	17
Site Work Instructions	19

Paint Schedule

The information below is to identify individual Systems for building areas to be painted. In order to achieve the optimum results it is extremely important to adhere to the systems and Site Work Instructions v5 quoted. Please note that ICI Paints will not accept responsibility for any amendments to or unauthorised usage of the wording contained in the system sheets or in the Site Work Instructions v5.

Prior to the start of the painting contract, Client and Painting Contractor must agree arrangements with regard to the Site Work Instructions v5 clauses listed below.

1. Section 2: Conditions of Use Building Repairs/Prior to Paint work
2. Section 2: Conditions of Use Responsibility to Confirm Surface as Specified
3. Section 6: Colour All Clauses

**PROJECT: The Auditorium, Islington Town Hall
Upper Street, Islington, London, N1, 100501640**

Building Area	Exposure	System	Prev Coating	Condition	Finish	Finish Coats	Colour	Notes
All previously painted ceiling beds, upper walls and mouldings	Internal	D14	Solvent Based Painted	RMI Preparation Stages 4-6	Dulux Trade Flat Matt	2		
All previously painted walls to stairwells and landings	Internal	D261S	Solvent Based Painted	RMI Preparation Stages 4-6	Dulux Trade Diamond Matt	2		
All previously 'papered' walls etc.	Internal	D950	Wallcoverings	Poor or Unsuitable	Wallcovering	0		
All previously painted walls to toilets, cloakroom etc.	Internal	D95S	Solvent Based Painted	RMI Preparation Stages 4-6	Dulux Trade Diamond Quick Drying Eggshell	2		
All previously painted timber joinery to inc: architraves, skirtings, doors etc.	Internal	D1041S	Solvent Based Painted	RMI Preparation Stages 4-6	Dulux Trade Eggshell	2		
All previously painted 'crittal' style windows, balusters etc.	Internal	M1967ALK	Paint Coating	RMI Preparation Stages 4-6	Dulux Trade Eggshell	2		
All previously 'varnished' timber joinery (not polished / oiled)	Internal	D1094	Varnish	RMI Preparation Stages 4-6	Dulux Trade Quick Drying Varnish	2		
'Gold' effect mouldings	Internal	N/A						Clean down and apply two coats of Hammerite Smooth

IMPORTANT NOTES

Due to the potential deterioration of the existing coatings and/or the potential deterioration of the existing substrates referred to within this project, the use of these specific project documents are limited to twelve months from their date of origination to the completion of the painting contract. It is recommended that this documentation be reviewed with ICI Trade Paints when completion of the project is greater than 24 months from the date of document origination. The origination date is on the front/title page of the specification.

I would draw your attention to the legal declaration below. It is important to remember that these specifications provided by **ICI Paints** are protected by copyright and database right and are dependent in performance terms on the use of **ICI Paints** system and colour defining references. Therefore these **ICI Paints** systems and colour defining references cannot be converted to what appears to be an equivalent system from another paint manufacturer without subsequent potential loss of performance.

LEGAL DECLARATION AND WARNING REGARDING COPYRIGHT

This "Prospec" Specification document is, and remains, the property of Imperial Chemical Industries Plc (ICI) and is loaned on condition that it is used solely to specify products manufactured by ICI and its affiliates and on condition that it shall not be copied in whole nor in part nor re-utilised in whole or in part except with the permission of ICI and shall be returned to ICI on demand. ICI reserve the right to charge for the loan of the specification if it is used in contravention of the above conditions. 'Prospec' is provided to the client on the condition that it is used solely as specified. No alterations or editing of 'Prospec' may be made without the express prior written permission of ICI. ICI will not accept responsibility for any unauthorised amendments or usage of the systems or Site Work Instructions contained in 'Prospec'.

All previously painted ceiling beds, upper walls and mouldings

System Code	Building Area
D14	<i>Ceilings, Cornices, Freize, Upper Walls etc.</i>

Exposure:	Internal	Required Finish Coat:	Dulux Trade Flat Matt
Substrate:	Painted Wall & Ceiling Surfaces	Finish Coat Type:	Water Based
Severity of Exposure:	Moderate	Finish Coat Data Sheet:	440
Condition of Surface:	RMI Preparation Stages 4-6	Finish Coat Sheen Level:	Low
Previous Coating:	Solvent Based Painted	Finish Coat Colour Reference:	See Colour Schedule
NBS Reference:	I 14BAAF	No. of Finish System Coats:	2
ICI Paints Reference:	IWL/PTR/SOL/M/RMI/440/2/AspectXPv2008A.SW5		

- 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).
- ICI Paints will not accept responsibility for any unauthorised amendments or usage of the wording contained in this System sheet and in ICI Paint's Site Work Instructions v5.
- In order to achieve the optimum results, it is extremely important to adhere to the systems and ICI 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.

Preparation

Important Note

The amount of preparatory work required on a Previously Coated Surface can vary considerably due to a variety of circumstances. This RMI System is for Preparation Stages 4 – 6[#] as detailed in 'ICI Condition of Surfaces to be Coated Tables' ([#]Stage 7 is for the complete removal of all coatings)

Stage 4 will be to areas where the coating is in good condition and requires only to be cleaned and lightly abraded where appropriate.

Stage 5 will be to areas where the coating exhibits signs of light failure and/or flaking, and requires cleaning, scraping back to a sound surface and abraded where appropriate.

Stage 6 will be to areas where significant failure is prevalent and requires the removal of all defective coatings.

Remove all blistered, poorly adhering or otherwise defective coatings. Powdery and friable surface coatings should be completely removed by scraping, brushing and washing. Thoroughly clean down the surfaces to remove all dirt grease and surface contaminants; **whilst wet, produce the necessary 'key' for good adhesion by rubbing down sound areas with waterproof abrasive paper or pads (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.** Rinse off and allow to dry. Allow the surface to fully dry before proceeding. *Dust off.

Note

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

Priming

If surfaces remain powdery and friable after thorough preparation, they must be sealed with: One coat of **Dulux Trade Stain Block Plus**.

Prime overall with: One coat of **Dulux Trade Diamond Quick Drying Eggshell** of appropriate 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 cracks, holes and other imperfections with **Polycell Trade Interior Filler**. Allow such making good to dry out thoroughly. Rub down smooth to match surrounding area and *dust off.

Note

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

Bring Forward

Bring forward all making good with: One coat of **Dulux Trade Flat Matt** of selected shade thinned up to 1 part water to 5 parts of product as appropriate.

Finishing System

Two coats of **Dulux Trade Flat Matt** of selected shade.

© Copyright and Database Right 1998 to 2008 Imperial Chemical Industries PLC.

All previously painted walls to stairwells and landings

System Code	Building Area
<i>D261S</i>	<i>General Wall Areas etc.</i>

Exposure:	Internal	Required Finish Coat:	Dulux Trade Diamond Matt
Substrate:	Painted Wall Surfaces	Finish Coat Type:	Water Based
Severity of Exposure:	Moderate	Finish Coat Data Sheet:	447
Condition of Surface:	RMI Preparation Stages 4-6	Finish Coat Sheen Level:	Low
Previous Coating:	Solvent Based Painted	Finish Coat Colour Reference:	See Colour Schedule
NBS Reference:	114RABG	No. of Finish System Coats:	2
ICI Paints Reference:	IWL/PTR/SOL/M/RMI/447/2/AspectXPv2008A.S W5		

- 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).
- ICI Paints will not accept responsibility for any unauthorised amendments or usage of the wording contained in this System sheet and in ICI Paint's Site Work Instructions v5.
- In order to achieve the optimum results, it is extremely important to adhere to the systems and ICI 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.

Preparation

Important Note

The amount of preparatory work required on a Previously Coated Surface can vary considerably due to a variety of circumstances. This RMI System is for Preparation Stages 4 – 6[#] as detailed in 'ICI Condition of Surfaces to be Coated Tables' ([#]Stage 7 is for the complete removal of all coatings)

Stage 4 will be to areas where the coating is in good condition and requires only to be cleaned and lightly abraded where appropriate.

Stage 5 will be to areas where the coating exhibits signs of light failure and/or flaking, and requires cleaning, scraping back to a sound surface and abraded where appropriate.

Stage 6 will be to areas where significant failure is prevalent and requires the removal of all defective coatings.

Remove all blistered, poorly adhering or otherwise defective coatings. Powdery and friable surface coatings should be completely removed by scraping, brushing and washing. Thoroughly clean down the surfaces to remove all dirt grease and surface contaminants; **whilst wet, produce the necessary 'key' for good adhesion by rubbing down sound areas with waterproof abrasive paper or pads (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.** Rinse off and allow to dry. Allow the surface to fully dry before proceeding. *Dust off.

Note

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

Priming

If surfaces remain powdery and friable after thorough preparation, they must be sealed with: One coat of **Dulux Trade Stain Block Plus**.

Prime overall with: One coat of **Dulux Trade Diamond Quick Drying Eggshell** of appropriate 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 cracks, holes and other imperfections with **Polycell Trade Interior Filler**. Allow such making good to dry out thoroughly. Rub down smooth to match surrounding area and *dust off.

Note

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

(See ICI Trade Paints Site Work Instructions v5 Clause SW4.20 for further information.)

Bring Forward

Bring forward all making good with: One coat of **Dulux Trade Diamond Matt** of selected shade thinned up to 1 part water to 10 parts of product as appropriate.

Finishing System

Two coats of **Dulux Trade Diamond Matt** of selected shade.

Recommendations for the cleaning of surfaces coated with Dulux Trade Diamond technology products can be found in ICI Site Work Instructions v5 SW 7.42.

© Copyright and Database Right 1998 to 2008 Imperial Chemical Industries PLC.

All previously 'papered' walls etc.

System Code	Building Area
D950	Wallcoverings.

Exposure:	Internal	Required Finish Coat:	Wallcovering
Substrate:	Wall Surfaces for Wallcoverings	Finish Coat Type:	Wallcovering
Severity of Exposure:	Moderate	Finish Coat Data Sheet:	001
Condition of Surface:	Poor or Unsuitable	Finish Coat Sheen Level:	N/A
Previous Coating:	Wallcoverings	Finish Coat Colour Reference:	See Colour Schedule
NBS Reference:		No. of Finish System Coats:	0
ICI Paints Reference:	WCV/PAP/WCV/M/POU/001/0/AspectXPv2008 A.SW5		

- 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).
- ICI Paints will not accept responsibility for any unauthorised amendments or usage of the wording contained in this System sheet and in ICI Paint's Site Work Instructions v5.
- In order to achieve the optimum results, it is extremely important to adhere to the systems and ICI 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.

Preparatory & Finishing System

Completely remove all existing material. Thoroughly wash down the surfaces to remove all residues of paper, paste and size. Allow to dry. Rub down or scrape to expose a sound clean surface and *dust off. Make good cracks, holes and other imperfections with **Polycell Trade Interior Filler**. Allow such making good to dry out thoroughly. Rub down smooth to match surrounding area and *dust off.

Note

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

Size the surfaces with **Polycell Trade Ready Mixed Adhesive**, thinned for sizing in accordance with the manufacturer's instructions and allow to dry completely. Ensure that rolls of the same shade number are used for a complete area. Shade all rolls before hanging.

The wallcovering is to be hung in accordance with the wallcovering manufacturers' instructions using **Polycell Trade Ready Mixed Adhesive**. The face of the wallcovering is to be kept free from paste and any paste on adjacent surfaces must be removed immediately with a damp sponge.

© Copyright and Database Right 1998 to 2008 Imperial Chemical Industries PLC.

All previously painted walls to toilets, cloakroom etc.

System Code	Building Area
<i>D95S</i>	<i>General Wall Areas etc.</i>

Exposure:	Internal	Required Finish Coat:	Dulux Trade Diamond Quick Drying Eggshell
Substrate:	Painted Wall Surfaces	Finish Coat Type:	Water Based
Severity of Exposure:	Moderate	Finish Coat Data Sheet:	408
Condition of Surface:	RMI Preparation Stages 4-6	Finish Coat Sheen Level:	Mid
Previous Coating:	Solvent Based Painted	Finish Coat Colour Reference:	See Colour Schedule
NBS Reference:	110FABF	No. of Finish System Coats:	2
ICI Paints Reference:	IWL/PTR/SOL/M/RMI/408/2/AspectXPv2008A.SW5		

- 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).
- ICI Paints will not accept responsibility for any unauthorised amendments or usage of the wording contained in this System sheet and in ICI Paint's Site Work Instructions v5.
- In order to achieve the optimum results, it is extremely important to adhere to the systems and ICI 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.

Preparation

Important Note

The amount of preparatory work required on a Previously Coated Surface can vary considerably due to a variety of circumstances. This RMI System is for Preparation Stages 4 – 6[#] as detailed in 'ICI Condition of Surfaces to be Coated Tables' ([#]Stage 7 is for the complete removal of all coatings)

Stage 4 will be to areas where the coating is in good condition and requires only to be cleaned and lightly abraded where appropriate.

Stage 5 will be to areas where the coating exhibits signs of light failure and/or flaking, and requires cleaning, scraping back to a sound surface and abraded where appropriate.

Stage 6 will be to areas where significant failure is prevalent and requires the removal of all defective coatings.

Remove all blistered, poorly adhering or otherwise defective coatings. Powdery and friable surface coatings should be completely removed by scraping, brushing and washing. Thoroughly clean down the surfaces to remove all dirt grease and surface contaminants; **whilst wet, produce the necessary 'key' for good adhesion by rubbing down sound areas with waterproof abrasive paper or pads (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.** Rinse off and allow to dry. Allow the surface to fully dry before proceeding. *Dust off.

Note

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

Priming

If surfaces remain powdery and friable after thorough preparation, they must be sealed with: One coat of **Dulux Trade Stain Block Plus**.

Prime all sound bare areas and areas exposed by the removal of coatings with: One coat of **Dulux Trade Diamond Quick Drying Eggshell** of appropriate shade thinned up to 1 part water to 10 parts of product as appropriate.

Making Good

Make good cracks, holes and other imperfections with **Polycell Trade Interior Filler**. Allow such making good to dry out thoroughly. Rub down smooth to match surrounding area and *dust off.

Note

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

Bring Forward

Bring forward all making good with: One coat of **Dulux Trade Diamond Quick Drying Eggshell** of selected shade thinned up to 1 part water to 10 parts of product as appropriate.

Finishing System

Two coats of **Dulux Trade Diamond Quick Drying Eggshell** of selected shade.

Recommendations for the cleaning of surfaces coated with Dulux Trade Diamond technology products can be found in ICI Site Work Instructions v5 SW 7.42.

© Copyright and Database Right 1998 to 2008 Imperial Chemical Industries PLC.

All previously painted timber joinery to inc: architraves, skirtings, doors etc.

System Code	Building Area
D1041S	Doors, Facings, Skirtings, Screens, Ceiling Hatches, Staircase Elements, Handrails etc.

Exposure:	Internal	Required Finish Coat:	Dulux Trade Eggshell
Substrate:	Non-Resinous Softwood, Hardwood etc.	Finish Coat Type:	Solvent Based
Severity of Exposure:	Moderate	Finish Coat Data Sheet:	405
Condition of Surface:	RMI Preparation Stages 4-6	Finish Coat Sheen Level:	Mid
Previous Coating:	Solvent Based Painted	Finish Coat Colour Reference:	See Colour Schedule
NBS Reference:	110CAAG	No. of Finish System Coats:	2
ICI Paints Reference:	IWD/NRS/SOL/M/RMI/405/2/AspectXPv2008A.SW5		

- 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).
- ICI Paints will not accept responsibility for any unauthorised amendments or usage of the wording contained in this System sheet and in ICI Paint's Site Work Instructions v5.
- In order to achieve the optimum results, it is extremely important to adhere to the systems and ICI 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.

Preparation

Important Note

The amount of preparatory work required on a Previously Coated Surface can vary considerably due to a variety of circumstances. This RMI System is for Preparation Stages 4 – 6[#] as detailed in 'ICI Condition of Surfaces to be Coated Tables' ([#]Stage 7 is for the complete removal of all coatings)

Stage 4 will be to areas where the coating is in good condition and requires only to be cleaned and lightly abraded where appropriate.

Stage 5 will be to areas where the coating exhibits signs of light failure and/or flaking, and requires cleaning, scraping back to a sound surface and abraded where appropriate.

Stage 6 will be to areas where significant failure is prevalent and requires the removal of all defective coatings.

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' and 'feather' broken edges of existing coatings. *Dust off.

Note

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

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: One coat of **Dulux Trade Metal Primer**.

Prime all bare areas and areas exposed by the removal of coatings with: One coat of **Dulux Trade Wood Primer** thinned up to 1 part White Spirit to 10 parts of product.

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

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

Finishing System

Two coats of **Dulux Trade Eggshell** of selected shade.

© Copyright and Database Right 1998 to 2008 Imperial Chemical Industries PLC.

All previously painted 'crittal' style windows, metal balusters etc.

System Code	Building Area
<i>M1967ALK</i>	<i>General Metalwork.</i>

Exposure:	Internal	Required Finish Coat:	Dulux Trade Eggshell
Substrate:	Ferrous	Finish Coat Type:	Solvent Based
Severity of Exposure:	Moderate	Finish Coat Data Sheet:	405
Condition of Surface:	RMI Preparation Stages 4-6	Finish Coat Sheen Level:	Mid
Previous Coating:	Paint Coating	Finish Coat Colour Reference:	See Colour Schedule
NBS Reference:	110CACV	No. of Finish System Coats:	2
ICI Paints Reference:	MTL/FER/COT/M/RMI/405/2/AspectXPv2008A. SW5		

- 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).
- ICI Paints will not accept responsibility for any unauthorised amendments or usage of the wording contained in this System sheet and in ICI Paint's Site Work Instructions v5.
- In order to achieve the optimum results, it is extremely important to adhere to the systems and ICI 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.

Preparation

Important Note

The amount of preparatory work required on a Previously Coated Metal Surface can vary considerably due to a variety of circumstances. This RMI System is for Preparation Stages 4 – 6[#] as detailed in 'ICI Condition of Metal Surfaces to be Coated Tables' ([#]Stage 7 is for the complete removal of all coatings)

Stage 4 will be to areas where the coating is in good condition and requires only to be cleaned and lightly abraded where appropriate.

Stage 5 will be to areas where the coating exhibits signs of light failure and/or flaking. Corrosion may be evident (0.05% - 1% failure). Requires cleaning, scraping back to a sound surface to remove defective coatings & corrosion products. Abrade where appropriate.

Stage 6 will be to areas where corrosion may be evident (1% - 8%) and where significant failure is prevalent. All defective coatings and corrosion products should be removed.

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: 2001 at the time of coating.

Note

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

Priming

Prime all bare metal with: One coat of **Dulux Trade Metal Primer** applied to give a minimum wet film thickness of 80 microns giving a minimum dry film thickness of 40 microns.

Bring Forward

Bring forward all primed areas with: One coat of **Dulux Trade Eggshell** applied to give a minimum wet film thickness of 58 microns giving a minimum dry film thickness of 26 microns.

Finishing System

Two coats of **Dulux Trade Eggshell** 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.

© Copyright and Database Right 1998 to 2008 Imperial Chemical Industries PLC.

All previously 'varnished' timber joinery (not polished / oiled)

System Code	Building Area
D1094	<i>Skirtings, Screens, Staircase Elements, Handrails etc.</i>

Exposure:	Internal	Required Finish Coat:	Dulux Trade Quick Drying Varnish
Substrate:	Non-Resinous Softwood, Hardwood etc.	Finish Coat Type:	Water Based
Severity of Exposure:	Moderate	Finish Coat Data Sheet:	604
Condition of Surface:	RMI Preparation Stages 4-6	Finish Coat Sheen Level:	Mid/High
Previous Coating:	Varnish	Finish Coat Colour Reference:	See Colour Schedule
NBS Reference:	111KAAG	No. of Finish System Coats:	2
ICI Paints Reference:	IWD/NRS/VAR/M/RMI/604/2/AspectXPv2008A.SW5		

- 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).
- ICI Paints will not accept responsibility for any unauthorised amendments or usage of the wording contained in this System sheet and in ICI Paint's Site Work Instructions v5.
- In order to achieve the optimum results, it is extremely important to adhere to the systems and ICI 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.

Preparation

Important Note

The amount of preparatory work required on a Previously Coated Surface can vary considerably due to a variety of circumstances. This RMI System is for Preparation Stages 4 – 6[#] as detailed in 'ICI Condition of Surfaces to be Coated Tables' (#Stage 7 is for the complete removal of all coatings)

Stage 4 will be to areas where the coating is in good condition and requires only to be cleaned and lightly abraded where appropriate.

Stage 5 will be to areas where the coating exhibits signs of light failure and/or flaking, and requires cleaning, scraping back to a sound surface and abraded where appropriate.

Stage 6 will be to areas where significant failure is prevalent and requires the removal of all defective coatings.

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.

Note

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

If required, touch in any primed areas with **Dulux Trade Quick Drying Varnish** to match the surrounding timber for colour and build. Allow to dry.

Priming

Prime all bare areas and areas exposed by the removal of coatings with One coat of **Dulux Trade Quick Drying Varnish**.
(clear only)

Making Good

Make good all nail holes (nails must be punched below the surface.), open joints and open grain with a suitable stopper / filler designed for use with a woodstain or varnish system. Allow the material to set before rubbing down and *dusting off.

Fillers & Stoppers

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

Note

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

NOTE

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

Finishing System

Two coats of **Dulux Trade Quick Drying Varnish**.

(Gloss or Satin)

Guidance on depth of colour (Quick Drying Varnish)

Clear Finish: Apply two finishing coats of clear satin or gloss.

Translucent Colour: Apply one coat (Satin Only) of colour followed by one coat of clear (satin or gloss).

Deeper Colour: Apply two coats of colour. (Satin Only)

Note:

With any semi-transparent coating the finished appearance will be influenced by the number of coats applied and the absorbency, texture, colour and general condition of the existing surface or previous coating.

Application Guidance

Note: To ensure an even colour and/or sheen gently stir the varnish at regular intervals during application.

© Copyright and Database Right 1998 to 2008 Imperial Chemical Industries PLC.

ICI Paints Site Work Instructions v5	
Clause Reference	Section 1: Manufacturer and Brand Information
SW 1.01	<p><u>Manufacturer Details</u> ICI Paints Wexham Road Slough Berkshire SL2 5DS</p>
SW 1.02	<p><u>Materials Specified</u> The materials specified in our system sheets are from Dulux Trade, ICI Paints High Performance Coatings, Glidden Trade, Cuprinol Trade, Hammerite and Polycell Trade Product Information Sheets and Safety Data Sheets are obtainable via www.duluxtrade.co.uk, ICI Paint Distributors or the Technical Advice Centre by telephone on 0870 242 1100.</p>
SW 1.04	<p><u>Window Care Systems Limited.</u> Some materials specified in our system sheets are from Window Care Systems Limited. Product Information Sheets and Safety Data Sheets are obtainable via ICI Paint Distributors, the Technical Advice Centre by telephone on 0870 242 1100 or by contacting Window Care Systems Limited directly on 01487 830311. Further information is available via www.window-care.com</p>
SW 1.05	<p><u>Wallcoverings – Manufacturer Guidance</u> ICI Paints do not manufacture wallcoverings, the wallcovering manufacturers' advice should be sought at all times.</p>
Clause Reference	Section 2: Information on Conditions of Use
SW 2.01	<p><u>Use of Specified Products</u> Coating materials to be obtained from the manufacturer and specified brand where indicated. It is not permissible to substitute the indicated brand. It is the responsibility of the painting contractor to familiarise him/her with these materials.</p>
SW 2.02	<p><u>ICI Paints Systems</u> The 'DuSpec & Prospec' Systems are for Professional use only and are offered as a service to Specifiers & Contractors who require access to painting systems and represent the most commonly recommended painting specifications in the U.K. A 'Bespoke' Specification Service is available across the U.K. to Professional Specifiers & Contractors by contacting Dulux Trade Technical Advice Centre, ICI Paints, Wexham Road, Slough, Berkshire SL2 5DS. Tel: 0870 242 1100. ICI Paints will not accept responsibility for any unauthorised amendments or usage of the wording contained in the System sheets or in these Site Work Instructions v5. In order to achieve the optimum results it is important to adhere to the Systems and Site Work Instructions quoted.</p>
SW 2.03	<p><u>Relevant Code of Practice</u> Care and attention must be employed when using the systems and the relevant British Code of Practice must also be complied 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).</p>
SW 2.04	<p><u>Relevant Information Sheets and Instructions to be Retained on Site</u> A copy of all the System sheets, Product Information, Health and Safety Information and Site Work Instructions supplied must be retained on site during the contract period for easy reference by site and visiting personnel.</p>
SW2.05	<p><u>Building Repairs / Prior to Paint work</u> Prior to the start of the painting contract the Client and the Painting Contractor must agree arrangements with regard to repair work. Prior to Painting repairs to substrates which are to be coated must be undertaken by the Clients' choice of Contractor in advance of the expected painting start date. The aforementioned substrates must be dry in depth (where applicable) and have been accepted by both parties as in a suitable condition to paint. The notification procedures when, during the painting contract, a painter discovers damaged or missing substrates requiring replacement, must be in place and be clearly understood. The aforementioned replacement of substrate must be identified as not part of the painting contract and must therefore be undertaken by the Clients' choice of Contractor.</p>

ICI Paints Site Work Instructions v5	
Clause Reference	Section 2: Information on Conditions of Use
SW2.06	<p><u>Responsibility to Confirm Surface as Specified</u> It is expected of the Painting Contractor that he ensures/confirms that the surface to be painted is ‘as described’ in the System Sheet he is given. If the existing coating is not ‘as described’ (e.g. the existing coating is Solvent Based and not Water Based or the substrate is Galvanised Metal & not Ferrous Metal) then it is the Painting Contractor’s responsibility to report back to the Client and to then be instructed which alternative System Sheet to use.</p>
SW 2.07	<p><u>Instructions Provided Separately</u> Any instructions provided separately must be used in conjunction with the documents supplied.</p>
SW 2.08	<p><u>Full Extent of Work</u> Contractors must satisfy themselves as to the full extent of the work to be carried out, whether mentioned in the documents or otherwise.</p>
SW 2.09	<p><u>Measurements and Close Inspection</u> Measurements and close inspection must be made to enable accurate preparation of tenders.</p>
SW 2.10	<p><u>Representative Access</u> ICI Paints Representatives must be allowed free access to the work and any access equipment (ladders etc.) shall be provided by the Contractor immediately on request. The actual percentage of properties or work inspected and recorded will have been agreed with the client prior to commencement of the contract.</p>
SW 2.20	<p><u>COSHH Assessment</u> The contractor must carry out a full assessment of Risk as required under COSHH Regulations 1994, (or as amended) before commencing work.</p>
SW 2.21	<p><u>Preparation of Surfaces / Sequence of Work</u> The contractor must adhere to the detailed preparation of surfaces and sequence of work as laid down in these documents.</p>
SW 2.22	<p><u>Weather Conditions</u> Exterior, or exposed application, must not be carried out under extreme weather conditions such as extremes of temperature i.e. below 40 degrees Fahrenheit (5 degrees centigrade) or during rain, fog or relative humidity above 80%, when such temperatures or RH may be expected or when the surface temperature fails to reach at least 3 degrees centigrade above the ambient dewpoint.</p>
SW 2.23	<p><u>Temperature & Humidity</u> Most coatings are dependent on the evaporation of the solvent or thinner at the initial drying stage. High or Low Temperature and/or High Humidity will affect coating application and can permanently affect the coating’s performance. It is therefore recommended that application is not carried out when ambient temperature is below 5 degrees centigrade or when relative humidity exceeds 80%. Consideration must also be taken regarding the temperature of the surface to which the coating is to be applied. Refer to BS 6150: 2006 Code of Practice for Painting of Buildings (or as amended) for further guidance.</p>
SW 2.24	<p><u>Log of Ambient Conditions</u> Keep a log of ambient conditions during the course of the work in line with BS 6150 and ISO 12944: 1998 Paints and Varnishes - Corrosion Protection of Steel Structures by Protective Paint Systems (or as amended).</p>
SW 2.25	<p><u>Storage and Thinning</u> Extremes of temperature and humidity during storage must be avoided. Thinning of materials when necessary, to be carried out with the type of thinner and in the proportions recommended by ICI Paints.</p>
SW 2.26	<p><u>Accurate Logs and Records of Materials and Surfaces</u> Log all batch numbers and deliveries of materials used and the surface to which they are applied.</p>
SW 2.27	<p><u>Materials to be Thoroughly Mixed and Stirred</u> All materials must be thoroughly mixed or stirred before use unless otherwise directed and used in accordance with instructions from ICI Paints.</p>
SW 2.28	<p><u>Inspection of First Coats</u> First coats must not be applied until the surfaces have been inspected by the client and/or his/her agent.</p>

ICI Paints Site Work Instructions v5	
Clause Reference	Section 2: Information on Conditions of Use
SW 2.29	<p><u>Inspection of Undercoats / Finishing Coats</u> No undercoats or finishing coats must be applied until the previous coat has been similarly inspected and approved by the client and/or his/her agent.</p>
SW 2.30	<p><u>Effects on Foodstuffs / Commencing Food Operations</u> Where coating systems are quoted, the user must ensure that they have no harmful effects on the operatives or foodstuffs. Before re-starting to use foods or raw food materials, or before commencing any food handling operation, the client or his authorised representative must satisfy himself/herself that the area is thoroughly clean and free from odour and clear of all painting materials.</p>
SW 2.31	<p><u>Documentation – Time Limitation</u> Due to the potential deterioration of the existing coatings and/or the potential deterioration of the existing substrates referred to within this project, the use of these specific project documents are limited to twenty - four months from their date of origination to the completion of the painting contract. It is recommended that this documentation be reviewed with the originator when completion of the project is greater than twenty - four months from the date of document origination. ICI Paints will not accept responsibility for any documentation relating to a project that exceeds this twenty - four period unless the documentation has been reviewed and approved by an ICI representative.</p>
SW 2.32	<p><u>Volatile Organic Compounds</u> 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.</p>
Clause Reference	Section 3: Substrates
SW 3.10	<p><u>Walls –Areas of use</u> The systems for Walls and Ceilings are suitable for Internal Plaster, Render, Block, Approved Brick and Concrete, Plasterboards, Paperfaced boards, Cement boards, Calcium Silicate boards and Fibre Insulation type boards and External Render, Pebbledash, Tyrolean, Block, Approved Brick, Concrete, Cement Boards and Calcium Silicate Boards</p>
SW 3.11	<p><u>Walls – Cleaning & Repairing</u> See BS 8221:2000 Code of Practice for Cleaning and Surface Repair of Buildings (or as amended). This gives guidance on cleaning natural stones, brick, terracotta and concrete.</p>
SW 3.12	<p><u>Walls - External Wall Repairs</u> Building repairs should be carried out in advance of the start of the painting contract. See Clause SW 2.05 for further information. All loose, hollow or defective rendering should be hacked off, and all large cracks cut out and defective or spalling bricks and concrete repaired and renewed with a suitable/matching material. All loose and defective pointing should be raked out and the surface brushed down to remove all dust and sandy material. The cleaned surface should then be prepared as appropriate and repoint with a suitable material. Allow to dry out completely. Remove any salts, loose sand or aggregate etc and *dust off. Cut out and make good cracks, holes and other imperfections with cement and sand and allow to dry out completely. *When rubbing down dry and/or dusting off wear a suitable face mask to prevent the inhalation of dust. See SW 4.20 for further information.</p>
SW 3.20	<p><u>Wallcoverings – Surface</u> All paintable wallcoverings must be firmly adhering to the surface and be free from paste on the face side before painting.</p>
SW 3.21	<p><u>Wallcoverings – Standard Types for Painting</u> Lining papers, Woodchips, Glassfibre Wallcoverings, Duplex Embossed and High or Low Relief - type papers are purposely made for painting and can generally be painted with conventional emulsion type paints.</p>
SW 3.22	<p><u>Wallcoverings – Blown Vinyls</u> Blown Vinyl's can sometimes be painted but will normally require a first coat of a Matt Vinyl emulsion.</p>
SW 3.23	<p><u>Wallcoverings – Pulp Type</u> Pulp papers generally can be painted provided the inks do not cause staining.</p>
SW 3.24	<p><u>Wallcoverings – Putty/Hessian Type</u> Putty - type wallcoverings need to be basecoated with an oil based paint, normally Eggshell. Hessians can be painted with conventional emulsion type paints but this can look unsightly as it tends to raise the fibres.</p>

SW 3.25	<p><u>Wallcoverings – Unsuitable Types for painting</u> Vinyls, Washables, Silks, Handprints, Flocks, Metallics, etc. generally should not be painted. Previously painted wallcoverings are suitable for repainting with a similar type of paint provided the paper has been successfully painted before.</p>
SW 3.26	<p><u>Wallcoverings - Shaded</u> All wallcoverings must be shaded before hanging and used in accordance with the specific wallcovering manufacturer's instructions.</p>
SW 3.30	<p><u>Wood –Areas of use</u> The systems detailed are for Professional use only and are in two groups of Wood; Landscape & Garden Timber and Joinery which can be Non-Resinous Softwood, Plywood, Hardwood, MDF, Approved Wood Building Boards etc.</p>
SW 3.31	<p><u>Wood – Resin & Knots</u> When encountering knots and resinous areas to be painted, apply two thin coats of 'Dulux' Trade Knotting Solution and allow to harden.</p>
SW 3.32	<p><u>Wood - Arrises</u> Prior to commencement of work to any window or item of joinery, the contractor may be requested to carry out an inspection of arrises. Allowance will be deemed to have been made within the tender sum for arrises to be created which comply with B.S.6150 Section 2 / 5 (Design, Specification and Organisation) or as amended:- a radius of 1 mm to 2 mm for timber other than sills and thresholds; sills and thresholds might need a 3 mm rounding. *When rubbing down dry and/or dusting off wear a suitable face mask to avoid the inhalation of dust. See SW 4.20 for further information.</p>
SW 3.33	<p><u>Wood - High Risk Joinery Sections</u> Where instructed to do so, in all cases, completely remove all coatings from sills, lower horizontal members of frames and sashes, adjacent vertical rails to the height of 150 mm, and all weatherbars to doors. For all defective areas, other than those mentioned above, the entire member or section must be stripped back to the nearest joint.</p>
SW 3.35	<p><u>Wood - Failed Joinery Sections</u> Where instructed to do so, use the appropriate Repair Method from the Window Care Systems document "A Guide to Specifying Pre-Paint Repairs." See Clause SW 1.04 for further information.</p>
SW 3.36	<p><u>Wood - Building Repairs / Replacement of Decayed Timber</u> Building repairs and the replacement of decayed timber with suitably preservative treated wood should be carried out in advance of the start of the painting contract. See Clause SW 2.05 for further information. Surfaces should then be allowed to dry out completely before painting.</p>
SW 3.37	<p><u>Wood - Denatured Woodwork</u> Failure to remove denatured wood before painting is a common cause of premature paint failure. Ensure that all denatured wood is completely removed by *manual abrasion or by power sanding to produce new clean sound wood. *When rubbing down dry and/or dusting off wear a suitable face mask to avoid the inhalation of dust. (See SW 4.20 for further information.)</p>
SW 3.50	<p><u>Metals – Complexity</u> The complexity of Metal as a Substrate is clearly illustrated on the Condition of Previous Coating Table v2 (see Appendix 1). It can be notoriously difficult to identify specific types of metal and, very often, the type of specialist coatings which are commonly used. We therefore recommend that if you are in any doubt, you should contact Dulux Trade Technical Advice Centre, ICI Paints, Wexham Road, Slough, Berkshire SL2 5DS. Tel: 0870 242 1100 for guidance.</p>
SW 3.60	<p><u>Plastics – Type of Substrate</u> There are many grades of plastics, not all of which can be painted. We therefore recommend that if you are in any doubt, you should contact Dulux Trade Technical Advice Centre, ICI Paints, Wexham Road, Slough, Berkshire SL2 5DS. Tel: 0870 242 1100 for guidance.</p>
SW 3.61	<p><u>Plastics – Pipes & Gutters</u> The plastic most commonly found in the Building Industry is in the form of plastic gutters and pipes. The surface is generally intended to be self- finished and so maintenance free. (See BS 6150:2006 Section 38 Plastics, or as amended, for further information).</p>
Clause Reference	Section 4: Preparation
SW 4.01	<p><u>Painted Finishes / BS Code of Practice</u> The whole of the painted surfaces shall be finished in accordance with BS 6150: 2006 Code of Practice for Painting of Buildings (or as amended) and additional requirements quoted. The surfaces coated should exhibit a fair and even surface of constant colour, substantially free of brushmarks, fatty edges etc. Each coat shall be allowed to harden and rubbed down before the next coat is applied.</p>

SW 4.02	<p><u>ISO Code of Practice for Metal Finishes (HPC's)</u> Where 'HPC' coatings are quoted for metal, the whole of the painted surfaces shall be finished in accordance with ISO 12944: 1998 Paints and Varnishes - Corrosion Protection of Steel Structures by Protective Paint Systems (or as amended).</p>
SW 4.10	<p><u>Dampness</u> No materials should be applied to surfaces that are structurally or superficially damp. All surfaces must be free from condensation, dirt etc before and during treatment.</p>
SW 4.11	<p><u>Efflorescence</u> Where efflorescence is present, remove fluffy efflorescence deposits by rubbing with dry Hessian sacking at frequent intervals. Check salts do not return within 48 hours, before proceeding. Remove hard shiny efflorescence by careful *manual abrasion taking care not to damage the surface finish of the substrate. On new buildings it is advisable not to use solvent based paints for at least 12 months as this will allow the surface time to dry out thoroughly. *When rubbing down dry and/or dusting off wear a suitable face mask to avoid the inhalation of dust. (See SW 4.20 for further information.)</p>
SW 4.12	<p><u>Internal Mould Growth</u> Mould growth on internal surfaces must be treated prior to the application of any subsequent paint coating. Surfaces which are contaminated with mould should be scraped to remove all heavy deposits before being treated with 'Dulux' Weathershield Multi-Surface Fungicidal Wash. (By brush only). After 24 hours rinse off and allow to dry. A second treatment is sometimes required. Ensure all surfaces are fully dry before proceeding. <u>Caution</u> 'Dulux' Weathershield Multi-Surface Fungicidal Wash contains Disodium Octaborate and Benzalkonium Chloride. Read the label before you buy. Use pesticides safely. Fungicidal Wash should not be allowed to come into contact with foodstuffs.</p>
SW 4.13	<p><u>External Vegetable, Mould or Algae growth</u> Algae, moss, lichen and mould growths must be removed as far as is practicable by thorough scraping, followed by brushing with stiff fibre brushes. (Do not use wire brushes as strands can detach and could appear after re-painting as rust stains). To kill any residual growth, the affected surface should then be treated with 'Dulux' Weathershield Multi-Surface Fungicidal Wash. After 24 hours rinse off and allow to dry. A second treatment is sometimes required. Ensure all surfaces are fully dry before proceeding. Do not apply in wet weather. <u>Caution</u> 'Dulux' Weathershield Multi-Surface Fungicidal Wash contains Disodium Octaborate and Benzalkonium Chloride. Read the label before you buy. Use pesticides safely. Fungicidal Wash should not be allowed to come into contact with foodstuffs.</p>
SW 4.20	<p><u>Rubbing Down & Dusting Off</u> When rubbing down use a wet flattening process. Where it is not possible or practical to use a wet process, wear a suitable face mask when rubbing down dry and/or dusting off to avoid the inhalation of dust. When it is known or suspected that coatings contain lead refer to Clause SW 4.22 for further information.</p>
SW 4.22	<p><u>Lead in Previous Coatings</u> All Dulux and Glidden paints are free from any added lead. However, the wood and metal surfaces of the building, especially if it is pre-1960, may have been decorated in the past with a paint made with lead pigments. Preparation and removal of such paint can be hazardous. For a free leaflet explaining how the surface should be prepared safely contact: ICI Paints Technical Group: ICI Paints, Wexham Road, Slough SL2 5DS. Tel: 0870 242 1100</p>
SW 4.23	<p><u>Fire Protection Systems</u> Where surfaces have been previously treated with fire retardant, check with the treatment manufacturer that the specified coating materials are compatible, and do not inhibit its performance. Inform the client of any discrepancy in coating system details and obtain instructions before proceeding with application.</p>
SW 4.30	<p><u>Friable / Powdery Surfaces</u> Friable or powdery surfaces must be treated with the primer most suited to the substrate prior to the application of any subsequent compatible coating.</p>
SW 4.31	<p><u>Opening edges / Undersides of Sills</u> Ensure that doors and opening windows, etc., are 'eased' as necessary before coating. All opening edges of doors and windows and undersides of sills are included in the painting work.</p>

ICI Paints Site Work Instructions v5	
Clause Reference	Section 4: Preparation
SW 4.41	<p><u>Glazing – Repair & Replace Where Necessary</u> All glazing compounds and glazing repairs must comply with BS 8000: Part 7: 1990 (Code of practice for glazing). Hack out all cracked or defective glazing putties. Remove all defective or loose beading. Clean the rebates and apply the appropriate priming product to all bare areas. Similarly, treat beading and any new wood which is to be spliced-in on all faces and edges, i.e. rub down and prime. <u>REPLACEMENT OF GLAZING COMPOUNDS WHERE NECESSARY:</u> When dry, re-glaze with appropriate glazing compound and allow to harden before further treatment. The compound manufacturer's recommendations must be adhered to, even if at variance with this system. <u>REPLACEMENT OF BEADING WHERE NECESSARY:</u> Bed in suitable external quality mastic in accordance with the manufacturer's instructions and <u>screw</u> down tightly using non-ferrous fixings.</p>
SW 4.42	<p><u>Bead Glazing</u> Joinery to be stained must have the first coat of the staining system applied to rebates and beads before glazing. Joinery to be varnished must have the first coat of the varnish system applied to rebates and beads before glazing. Joinery to be painted, with the exception of the 'Dulux' Trade Weathershield Exterior Gloss system and the 'Dulux' Trade Weathershield Exterior Quick Drying Satin system, must have the primer applied to rebates and beads before glazing. The 'Dulux' Trade Weathershield Exterior Gloss system and the 'Dulux' Trade Weathershield Exterior Quick Drying Satin system, must have the primer and one undercoat applied to rebates and beads before glazing.</p>
SW 4.43	<p><u>Putty Glazing</u> Allow putty to set for at least 7 days and, before a further 14 days, seal the putty with an oil based primer. Fully coat and protect the putty with a coating system as soon as it is sufficiently hard.</p>
SW 4.50	<p><u>Stoppers / Fillers</u> Apply oil based stoppers/fillers after priming. Apply water based stoppers/fillers before priming unless recommended otherwise by ICI Paints.</p>
SW 4.51	<p><u>Polycell Trade Fillers</u> For precise application, completion and storage guidance please refer to the product packaging or product data sheet. See Clause SW 1.03 for further information.</p>
SW 4.80	<p><u>Oil and Grease Contaminated Surfaces</u> For surfaces contaminated with dirt, oil and grease, use an appropriate 'Oil & Grease Remover' in accordance with the Manufacturers instructions for use.</p>
Clause Reference	Section 5: Application
SW 5.01	<p><u>Suitability of Primers</u> All primers must be appropriate for the surface and for subsequent coats.</p>
SW 5.02	<p><u>Staining / Suitable Primers</u> Contaminated areas that are likely to cause staining, must be treated with the primer most suited to the type of stain encountered prior to the application of any subsequent compatible coating. Determine the type of stain and thoroughly clean down the surfaces to remove dirt, grease etc. Rub down with a suitable abrasive and *dust off. *When rubbing down dry and/or dusting off wear a suitable face mask to prevent the inhalation of dust. See Clause SW 4.20 for further information. Prime the affected area with the most appropriate 'sealer' for the staining encountered. 'Dulux' Trade Stain Block Plus (Water Based) for sealing inks, caffeine, biro and scuffs etc. 'Dulux' Trade Aluminium Wood Primer (Solvent Based) for sealing aged-creosote, bitumen, soot, tar and smoke etc. 'Dulux' Trade Alkali Resisting Primer (Solvent Based) for sealing a wide variety of stains, including water staining. 'Glidden' Primecoat Primer Sealer (Solvent Based) for sealing a wide variety of stains, including water staining.</p>
SW 5.10	<p><u>Ferrous Metal Fixings</u> Any uncoated metal fixings etc must be primed/pre-treated with the appropriate Metal primer/pre-treatment prior to the application of any subsequent compatible coating.</p>
SW 5.20	<p><u>Coating of Prepared Metalwork</u> Prepared metalwork must be coated as soon as possible on the day of preparation and before the standard of preparation has deteriorated.</p>

SW 5.21	<p><u>Overcoating of Prepared Woodwork</u> Prepared woodwork must be coated as soon as possible on the day of preparation and before the standard of preparation has deteriorated.</p>
SW 5.22	<p><u>Application of Finishing Coat</u> No coatings shall be left in an exposed or unsuitable situation for an undue period before applying the finishing coat.</p>
SW 5.31	<p><u>Application Methods</u> Refer to BS 6150: 2006 Code of Practice for Painting of Buildings Section 9.3 Application Methods Page 103 All methods of application are comprehensively dealt with in this Section.</p>

ICI Paints Site Work Instructions v5	
Clause Reference	Section 6: Colour
SW 6.01	<p><u>Good Working Practice When Using Colour</u> Before application, ensure that all materials are from the same batch. (See Clause SW 2.26). If mixed batch tins are purchased they should be 'boxed' to avoid potential colour variation. 'Boxing' requires the mixing together of the different batches in a larger container to ensure consistency of colour. Colour variation can occur when purchasing a colour for a project from a variety of sources rather than from one source and/or location. The risk of colour variation, can be reduced by taking the following action:</p> <ul style="list-style-type: none"> (a) Avoid using a mixture of ready mixed colour and in store tinted colour (b) Avoid using a variety of batch numbers whether ready mixed or in store tinted. For the purpose of in store tinted colour a batch is considered to be materials tinted on one machine at the same time. (c) Purchase sufficient material for the project at one time from the same source of supply tinted on the same tinting machine. Where this is not appropriate due to storage restrictions, the supplying merchant may be able to store sufficient quantities in store for call off when required. <p>It is good working practice to hold back sufficient original material to 'touch up' any areas of damage to the paint film prior to completion. With some paints and / or colours, especially products with mid or high sheen and / or deep colours, it may be necessary to recoat the whole area to avoid noticeable differences in film appearance for example under acute lighting conditions.</p>
SW 6.02	<p><u>Selection of Colours and Finishes/Trial Areas/Additional Coats</u> All colours and finishes to be selected and approved by the client or client's agent. Provision must be made for the execution of patterns or trial areas on site if required. In general, the quantity of finishing coats specified are based on 'as existing' colours and finish types. Allowance must be made for any deviation from the standard specification. Additional coats may need to be applied should the client or client's agent select colours as described in Clause SW 6.04. ICI Paints will not accept responsibility for the cost of the application of additional coats when the originator of the documentation (for example an ICI Paints Representative) has not been informed of the colour schedule prior to origination of the project documentation.</p>
SW 6.03	<p><u>Specified - "As Existing" Colour</u> Many specifications are written on the basis of the finish colour being 'As Existing'. Provision must be made by the successful Contactor, with the Client, to confirm and agree the 'actual' colours to be applied before application. Should a change of colour be instructed, then agreement must be reached by all parties as to the possible need for additional coats and the cost significance of such action. (See all other Clauses on Colour for further guidance.)</p>
SW 6.04	<p><u>Special Processes Colours</u> When any colour is to be used on rough surfaces, or where a marked change of colour is to be made, an amended process may be required and the finishing system for that surface amended to include the additional coats necessary. The finishing system for a surface that is to be significantly lighter than the previous colour (e.g. from Black to White) may also need to be amended to include the application of further coats of finish or the use of different colours or products as undercoats prior to finishing. Some strong colours, such as Poppy and Monarch in the revised BS4800 range, NCS colours with a colour intensity of 60 or more and also some Colour Palette colours as detailed below, cannot be made with the same hiding power as ordinary colours if they are to have satisfactory durability and purity of colour and therefore may require extra coats to be applied to achieve full opacity. These strong colours, known as 'Special Process Colours' are identified as such in colour cards from the supplying stockists or the Trade Technical Advice Centre (see below) with specific instruction on how many coats to apply to achieve full opacity. Some of this information will also be given on the can labels. This may involve the application of further coats of finish or the use of different colours or products as undercoats prior to finishing.</p>

	<p>Refer to BS 6150: 2006 Code of Practice for Painting of Buildings Appendix B: Paint Colours (or as amended). See relevant colour card for further guidance.</p> <p>Colour Guidance</p> <p>NCS: All colours with a colour intensity of 60 or more. e.g. (1060-Y10R).</p> <p>Colour Palette: BB, RB, BG colours with chroma value >350.</p> <p>Colour Palette: YY, YR, GY colours with chroma value >450.</p> <p>Colour Palette: RR, GG colours with chroma value >400.</p> <p>e.g. (45YY 71/664).</p>
--	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

ICI Paints Site Work Instructions v5	
Section 7: Operation and Maintenance	
Clause Reference	
SW 7.01	<p><u>Chemical Resistance</u></p> <p>In a coating system each resin, (Alkyds, Acrylated Rubbers, Epoxies, etc.) will behave in a different way when exposed to other chemicals. Care must be taken to ensure that the system selected has the best resistance to the chemicals it will be exposed to once it has been applied.</p>
SW 7.10	<p><u>Durability in High Wear Areas</u></p> <p>An extra coat of the finishing material is recommended to improve durability in high wear/traffic areas such as doors and handrails.</p>
SW 7.20	<p><u>Cleaning Specified Surfaces / Removal of Paint Splashes</u></p> <p>Where instructions are given not to paint, and to wash or dust clean, this work must be undertaken prior to painting surrounding areas and should be left clean and free from paint splashes.</p>
SW 7.30	<p><u>Cleaning Interior of Rainwater Goods</u></p> <p>Clean out interior of all gutters, rainwater heads etc.</p> <p>Thoroughly clean down the surfaces to remove all dirt grease and surface contaminants.</p>
SW 7.40	<p><u>Cleaning Maintenance for Internal Walls Finished in Conventional Water Based Paints</u></p> <p>Where possible the surface should be lightly brushed or dusted to remove dust etc. When more intense cleaning is required, gently wash down the surface using a soft sponge and mild detergent solution to remove dirt and light marking. Heavy pressure should be avoided to reduce the level of polishing or burnishing of the painted surface. Gently clean down with clean water and remove any excess water to avoid staining or streaking. Abrasive Cleaners and coarse cloths should not be used.</p>
SW 7.42	<p><u>Cleaning Maintenance for Internal Walls Finished in Diamond Technology Water Based Paints</u></p> <p><i>i.e. Dulux Trade Sterishield Diamond Matt, Dulux Trade Diamond Matt, Dulux Trade Diamond QD Eggshell, Dulux Trade Diamond Matt Light & Space.</i></p> <p>Common stains can be removed by cleaning promptly with a soft cloth and clean soapy water. Allow to dry. Vigorous scrubbing and the use of abrasive cleaners or scourers may impair the finish. Only apply enough pressure to remove marks. Oil based stains and marks from some pens/felt tips/permanent markers may not be completely removed. Full durability develops 7 days after initial application. For information about removing specific stains, please phone ICI Technical Group on 0870 2421100.</p>

Condition of Surfaces to be Coated

Table 1

Walls		Wood	Floors	Plastics
Stage	Surface to be Coated		Description	ICI ID
1	New		New surface requiring cleaning and minimal preparation to receive surface coating application.	A
2	Uncoated <i>(Not Applicable to all Substrates)</i>		Existing uncoated surface having had some degree of exposure to natural conditions but requiring minimal preparation	B
3	Factory Coated/Primed <i>(Not Applicable to all Substrates)</i>		New or existing surface with factory applied coating or factory applied primer, requiring some cleaning and preparation.	C
4	No Breakdown		Coated surface in excellent condition showing no coating failure, minimal cleaning and preparation required.	D
5	Light Failure (< 20%)		Coatings showing some breakdown (< 20%) not only in high wear areas, surfaces will require cleaning down, scraping back of failed coatings and some minor surface repairs.	E
6	Partial Removal (20-50% Failure)		Medium breakdown of existing coatings (20-50%), failed coatings should be removed and substrate repairs carried out where necessary.	F
7	Heavy Failure/ Incompatible Coatings		All coatings must be completely removed prior to substrate repairs being carried out where necessary.	G

Condition of Surfaces to be Coated

Table 2

Metals			
Stage	Surface to be Coated	Description	ICI ID
1	New Hot Rolled Steel (Heavy Gauge Structural Steel e.g. RSJ's)	Grade A, B, C, D as described in BS7079 Part A1 1989 (Specialised Factory Coatings Used)	K
2	Hot Rolled Steel	Weathered (Uncoated)	
1 - 2	Cold Rolled Steel (Light Gauge e.g. Sheeting) & Cast/Wrought Iron	New or Weathered (Uncoated)	L
1 - 2	Hot Dipped Galvanised & Zinc	New or Weathered (Uncoated)	N
1 - 2	Cast Aluminium	New or Weathered (Uncoated)	Q
1 - 2	Polished Extruded Aluminium	New or Weathered (Uncoated)	R
1	Copper, Lead & Brass	New	S
4	Metal - No Breakdown Previously factory primed or fully decorative coated metal	In excellent condition showing no coating failure and no signs of rusting. Minimal cleaning and preparation required.	1 - 3
5	Light Failure (< 20%) Previously factory primed or fully decorative coated metal	Showing some breakdown (< 20%) not only in high wear areas. Corrosion may be evident (0.05%-1.00% failure). Surfaces will require cleaning-down and scraping back of failed coatings etc.	1 - 3
6	Partial Removal (20-50% Failure) Previously factory primed or fully decorative coated metal	Medium breakdown of existing coatings (20-50%). Corrosion may be evident (1%-8%). Surfaces will require cleaning-down and all failed coatings should be removed.	4 - 5
7	Heavy Failure *Significant Rusting Incompatible Coatings Previously factory primed or fully decorative coated metal	Significant coating failure (> 50%) and/or *significant corrosion (>15%) All coatings must be completely removed. <u>*Important Note</u> Irrespective of the coatings condition, where significant corrosion is evident all previous coatings must be removed.	6 - 10

Condition of Surfaces to be Coated

Table 3

Wallcoverings			
Stage	Surface to be Coated	Description	ICI ID
5	Wallcoverings (good)	Minor breakdown of existing wall coverings. Surfaces should be cleaned down and minor repairs undertaken e.g. poorly adhering joints should be dealt with before paint application.	H
7	Wallcoverings (poor)	Major breakdown of existing wall coverings. Completely remove existing coverings using a suitable method, repair surfaces as necessary.	J