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<p>K10</p> <p>65</p> <ul style="list-style-type: none"> • • • • • • • <p>70</p> <ul style="list-style-type: none"> • • • <p>75</p> <p>82</p> <ul style="list-style-type: none"> • • <p>85</p> <ul style="list-style-type: none"> • • <p>90</p> <ul style="list-style-type: none"> • • 	<p>PLASTERBOARD DRY LINING/PARTITIONS/CEILINGS</p> <p>DRY LINING GENERALLY:</p> <p>Handle and install boards and associated framework components in accordance with manufacturers recommendations.</p> <p>Fixing, jointing and finishing materials and accessories, where not specified otherwise, to be as recommended by the board manufacturer.</p> <p>Plasterboard: To BS 1230:Part 1 with exposed surface and edge profiles suitable to receive the specified finish.</p> <p>Use operatives properly trained for dry lining work.</p> <p>Cut boards neatly and accurately without damage to core or tearing of paper facing. Keep cut edges to a minimum. Do not use damaged boards.</p> <p>Finish neatly to give flush, smooth, flat surfaces free from bowing and abrupt changes of level.</p> <p>ADDITIONAL SUPPORTS: Provide or ensure provision of additional framing, accurately positioned and securely fixed:</p> <p>To give full support to board edges and lining perimeters.</p> <p>To support fixtures, fittings and services.</p> <p>To provide fixing points for heads of partitions running parallel with, but offset from main structural supports.</p> <p>NEW WET LAID BASES: Provide or ensure provision of bituminous felt dpc or other approved material under partitions/freestanding wall linings, cut to the full width of the partition/lining.</p> <p>CAVITY BARRIERS WITHIN [LOCATIONS AS SCHEDULE OF WORKS]</p> <p>Material: [as Schedule of Works]</p> <p>Form accurately and fix securely with no gaps to provide a complete barrier to smoke and flame.</p> <p>MINERAL WOOL INSULATION:</p> <p>Fit securely with closely butted joints, leaving no gaps. Use fastenings where necessary to prevent slumping.</p> <p>Do not cover electrical cables (unless they have been sized accordingly).</p> <p>FINISHING:</p> <p>Fill all joints and gaps and cover with continuous lengths of tape, fully bedded. When set, cover with joint finish, feathered out to give a flush, smooth, seamless surface.</p> <ul style="list-style-type: none"> • Fill minor indents and, after joint, angle and spotting treatments have dried, seal surface to even out texture and suction using [dual purpose primer and sealer]
<p>K30</p> <p>30A</p> <ul style="list-style-type: none"> • 	<p>PANEL PARTITIONS</p> <p>PLASTERBOARD LAMINATED PARTITION(S) [LOCATION AS SCHEDULE OF WORKS]</p> <p>Plasterboard: To BS 1230:Part 1 with exposed surfaces and edge profiles suitable to receive the specified finish.</p> <p>Core layer: 19 mm gypsum plank.</p> <p>Finishing: As clause 80.</p>

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<ul style="list-style-type: none"> • 50 • • • • 	<p>WORKMANSHIP GENERALLY:</p> <ul style="list-style-type: none"> • Handle and install partition systems in accordance with manufacturers recommendations. • Fixing and jointing materials and accessories, where not specified otherwise, to be as recommended by the partition system manufacturer. • Set out accurately with frame/panels plumb, true to line and level and free from bowing and other surface irregularities. • Fix securely, ensuring provision of additional supports where necessary at perimeter of partition.
<p>60</p>	<p>NEW WET LAID BASES: Provide or ensure provision of a continuous strip of bituminous felt dpc or other approved material under partitioning, cut to the full width of the partition.</p>
<p>K40</p>	<p>SUSPENDED CEILINGS</p>
<p>10A</p> <ul style="list-style-type: none"> • • 	<p>SUSPENDED CEILING(S) [LOCATIONS AS SCHEDULE OF WORKS]</p> <ul style="list-style-type: none"> • Suspension system: To include all hangers, fixings, primary supports, main runners, cross members, perimeter trims, splines, noggings, clips bracing, bridging etc., which are necessary to complete the installation.
<p>30</p>	<p>CONDITIONS: Do not install membrane material until the building is weathertight, wet trades have finished their work and services are complete above the level of the ceiling. Before, during and after installing, ensure that temperature and humidity are maintained at levels similar to those which will prevail after building is occupied.</p>
<p>40</p> <ul style="list-style-type: none"> • • • • 	<p>WORKMANSHIP GENERALLY:</p> <ul style="list-style-type: none"> • Handle, store and fix suspended ceiling materials in accordance with manufacturers' recommendations and BS 8290:Part 3. • Set out accurately to give level soffits free from undulations and lipping, with all lines and joints straight and parallel to walls unless specified otherwise. • Where not shown otherwise set out to ensure that edge tiles/panels are never less than half in width or length. Position grid to suit tile/panel size(s), allowing for permitted deviations from nominal size(s). • Fix securely with additional bracing and stiffening as necessary to give a stable ceiling system.
<p>50</p> <ul style="list-style-type: none"> • • 	<p>WIRE HANGERS:</p> <ul style="list-style-type: none"> • Straighten before use and install vertically without bends or kinks. Do not allow hangers to press against any fittings within the void. • Tie securely at top and bottom with tight bends to loops to prevent vertical movement.
<p>60A</p> <ul style="list-style-type: none"> • • 	<p>CAVITY FIRE BARRIERS:</p> <ul style="list-style-type: none"> • Fit accurately and fix securely with no gaps, to provide a complete barrier to smoke and flame. • Fixing to the ceiling must not impair free expansion of grid system or otherwise affect fire resisting performance.
<p>65</p> <ul style="list-style-type: none"> • • 	<p>INSULATION:</p> <ul style="list-style-type: none"> • Fit accurately and firmly with no gaps. • Insulation within individual tiles, trays, etc. must be secured to prevent displacement when tiles are installed or subsequently lifted. Reseal any cut dustproof sleeving. • Do not cover electrical cables (unless they have been sized accordingly). Cut around electrical fittings.

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75	<p>ELECTRICAL CONTINUITY AND EARTH BONDING:</p> <ul style="list-style-type: none"> All substantial conductive parts of the suspended ceiling system including integrated electrical equipment and fittings, are to be electrically continuous and fully earth bonded in accordance with BS 7671 (The IEE Wiring Regulations). <p>Ensure that earth bonding is completed as soon as possible after completion of each independent area of suspension system.</p>
L2	DOORS/SHUTTERS/HATCHES
10A	<p>MATCHBOARDED DOORS:</p> <ul style="list-style-type: none"> To BS 459 [as Door Schedule]
30A	<p>[SPECIFIED] DOORS:</p> <ul style="list-style-type: none"> Materials generally: To BS 1186:Part 1. Preservative treatment: Organic solvent as section Z12 and BWPDA Commodity Specification C5. Desired service life: [10] years Joinery workmanship: As section Z10. Moisture content on delivery: [16%] Accuracy: To BS 4787:Part 1.
40A	<p>[SPECIFIED] DOOR FRAMES:</p> <ul style="list-style-type: none"> Timber to BS 1186:Part 1. Preservative treatment: Organic solvent as section Z12 and BWPDA Commodity Specification C5. Desired service life: [10] years Joinery workmanship: As section Z10. Moisture content on delivery: [16%] Fixing: [detail] as section Z20. Position fixings 150 mm from each end of jamb, adjacent to each hanging point and at 600 mm maximum centres.
70	<p>FIRE RESISTANCE: The specified performance is to be the minimum period attained when tested for integrity in accordance with BS 476:Part 22.</p>
75	<p>FIRE RESISTING FRAMES: Completely fill gap between [frames] and wall with [specified product]</p>
80	<p>SEALANT JOINTS:</p> <ul style="list-style-type: none"> Sealant manufacturer and reference: [as Schedule of Works] Colour: [as Schedule of Works] Prepare joints and apply sealant as section Z22.
85	<p>IRONMONGERY: Fix carefully using fastenings with matching finish supplied by ironmongery manufacturer. Prevent damage to ironmongery and adjacent surfaces.</p>
L40	GENERAL GLAZING
10	<p>WORKMANSHIP GENERALLY:</p> <ul style="list-style-type: none"> Glazing generally: to BS 6262. The glazing must be wind/watertight under all conditions. Make full allowance for deflections and other

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<ul style="list-style-type: none"> • • 	<p>movements.</p> <p>Glass generally to BS 952 and BS EN 572, free from scratches, bubbles and other defects.</p> <p>Panes/sheets to be accurately sized.</p> <p>Ensure that glass/plastics, surround materials, sealers primers and paints/clear finishes are compatible. Comply with glazing/sealant manufacturers' recommendations.</p>
<p>20</p> <ul style="list-style-type: none"> • • 	<p>REMOVAL OF GLAZING FOR REUSE:</p> <p>Carefully remove existing glazing and glazing compound, beads, etc., avoiding damage to the frame, to leave clean smooth rebates free from obstructions and debris. Clean glazing, beads and other components that are to be reused.</p> <p>Report to CA any signs of deterioration of the surround revealed by removal of glazing, compounds, etc. Do not reglaze affected surrounds until instructed.</p>
<p>30</p>	<p>PREPARATION: Clean surrounds, rebates, grooves and beads, and prepare as specified before installing glazing.</p>
<p>40A</p> <ul style="list-style-type: none"> • • • • • 	<p>PUTTY FRONTED SINGLE GLAZING: [locations as Schedule of Works]</p> <p>Putty: To BS 544.</p> <p>Apply sufficient putty to produce not less than 1.5 mm finished thickness of back bedding.</p> <p>Locate glazing centrally in surround using setting and location blocks, and secure with glazing sprigs/cleats/clips at 300 mm centres.</p> <p>Apply front putty and finish to a neat triangular profile stopping 2 mm short of sight line. Lightly brush surface to seal putty to glass.</p> <p>Seal putty as soon as sufficiently hard; apply either the full final finish, or two coats of undercoat applied locally.</p>
<p>50A</p> <ul style="list-style-type: none"> • • • • 	<p>BEAD FIXED SINGLE GLAZING: [location as Schedule of Works]</p> <p>Apply glazing compound, using distance pieces to produce not less than 3 mm finished thickness of back bedding.</p> <p>Locate glazing centrally in the surround using setting and location blocks.</p> <p>Apply front glazing compound and insert distance pieces. Bed beads in compound and fix securely.</p> <p>Finish visible edge of compound internally and externally with a smooth chamfer.</p>
<p>55A</p> <ul style="list-style-type: none"> • • 	<p>BEAD FIXED INSULATING GLAZING [location as Schedule of Works]</p> <p>Locate insulating unit centrally in surround using setting and location blocks.</p> <p>Install gaskets and fit beads ensuring that drainage and ventilation holes are not obstructed. Cut gasket sections over length to ensure a tight fit without gaps at corners.</p>
<p>65A</p> <ul style="list-style-type: none"> • • • 	<p>FIRE RESISTANT GLAZING</p> <p>Glazing system:</p> <p>Apply glazing tape/strip to beads and fix as specified. Leave no gaps at corners.</p> <p>Locate glazing centrally in surround using hardwood/ noncombustible setting and location blocks as required.</p> <p>Apply pointing sealant and finish to a smooth chamfer.</p>
<p>75A</p> <ul style="list-style-type: none"> • • • 	<p>FIRE RESISTANT CHANNEL GLAZING:</p> <p>Fit channel firmly to the glass with butt jointed corners. If necessary bed glass in intumescent mastic or other approved material to ensure a close fit.</p> <p>Bed channel to surround in intumescent mastic and fix with screws evenly spaced at 100 mm staggered centres, and 50 mm from each corner.</p> <p>Seal any gaps with intumescent mastic.</p>

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90A <ul style="list-style-type: none"> • 	INTERNAL TAPE GLAZING: Bed glass and beads with glazing tape and fix securely. Trim tape flush on both sides.
M50	RUBBER/PLASTICS/CORK/LINO/CARPET TILING/SHEETING
40	DAMPNESS: Where coverings are to be laid on new wet-laid bases, ensure that drying aids have been turned off for not less than 4 days, then test for moisture content in accordance with BS 8203, Annex A. Do not lay coverings until all readings show 75% relative humidity or less.
45	EXISTING FLOOR COVERING TO BE REMOVED: Remove covering and as much adhesive as possible. Skim with smoothing compound to give a smooth, even surface.
50A <ul style="list-style-type: none"> • • • • • • • • 	HARDBOARD UNDERLAY: To BS EN 622:Part 2. Sheet size: 1200 x 1200 mm. Ensure that existing floor boards are securely fixed and acceptably level. Remove or fill any gross irregularities. Punch in any protruding fastenings. Condition sheets by sponging the mesh side with approximately 0.5 litre of water per 1200 x 1200 mm sheet, then stack spaced horizontally for 24-48 hours before fixing. Lay sheets butt jointed with rough side uppermost, cross joints staggered such that no joint within the base and underlay is coincident. Fix with 25 mm ring shanked or twisted shank nails or divergent staples, commencing at the centre of one side of each sheet, at 150 mm grid centres over the area and 100 mm centres along perimeter, set in 12 mm from edge. Ensure that fasteners do not project above sheet surface or through underside of base. Do not lay coverings until conditioned hardboard is dry.
55A <ul style="list-style-type: none"> • • • 	PLYWOOD UNDERLAY: To an approved national standard. Ensure that existing floorboards are securely fixed and acceptably level. Remove or fill any gross irregularities. Punch in any protruding fastenings. Lay sheets with cross joints staggered such that no joint within the base and underlay is coincident and with a 0.5-1 mm gap between sheets. Fix with 25 mm annular ring shanked or twisted shank nails or divergent staples, commencing at the centre of one side of each sheet, at 150 mm grid centres over the area and 100 mm centres along perimeter, set in 12 mm from edge. Ensure that fastenings are driven well in, with heads set flush with surface and do not project through underside of base.
60 <ul style="list-style-type: none"> • • 	SET OUT TILES from centre of space/room unless specified otherwise, so that wherever possible: Tiles along opposite edges are of equal size, and Edge tiles are more than 50% of full tile width.
65 <ul style="list-style-type: none"> • • • 	LAYING COVERINGS: Bases must be rigid, dry, smooth and free from grease, dirt and other contaminants before coverings are applied. Use a primer where recommended by adhesive manufacturer. Allow to dry thoroughly . Adhesive, when not specified otherwise, to be as recommended by covering manufacturer or, in the absence of such recommendation, to be approved.

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<ul style="list-style-type: none"> • • • 	<p>Before laying commences thoroughly condition materials as recommended by manufacturer.</p> <p>Before, during and after laying, provide adequate ventilation and maintain temperature and humidity approximately at levels which will prevail after the building is occupied.</p> <p>Finished coverings must be accurately fitted, tightly jointed, securely bonded, smooth and free from air bubbles, rippling, adhesive marks, stains, trowel ridges and high spots.</p>
<p>70A</p> <ul style="list-style-type: none"> • 	<p>EDGINGS/COVER STRIPS:</p> <p>Fix securely (using matching fastenings where exposed to view) ensuring that edge of covering is firmly gripped.</p>
<p>75A</p> <ul style="list-style-type: none"> • 	<p>STAIR NOSINGS/TRIM:</p> <p>Fix securely with neatly mitred joints, adjusting to suit thickness of covering with continuous strips of hardboard or plywood. Bed packing strips and nosings in gap-filling adhesive. Screw fixing with matching plugs [is or is not] required.</p>
<p>85</p>	<p>WASTE: Retain spare covering material suitable for patching. On completion hand over to Employer pieces selected by CA.</p>
<p>M60</p>	<p>PAINTING/CLEAR FINISHING</p>
<p>20</p>	<p>COATING MATERIALS to be obtained from one only of the following manufacturers unless specified otherwise. Inform CA of selected manufacturer before commencement of any coating work..</p> <p>[Manders Paints Ltd. PO Box 9, Old Heath Road, Wolverhampton WV1 2XG (Manders) MacPherson Paints Ltd.</p> <p>Warth Mills, Radcliffe Road, Bury, Lancs BL9 9NB (Valspar)(Timonox)(MacPhersons)</p> <p>Jacoa Ltd. Ripolin Works, Balfour Road, Southall, Middlesex UB2 5BT (Ripolin)</p> <p>Crown Decorative Products Ltd. Bilton Industrial Estate Waterhouse Lane, Chelmsford, Essex (Crown)</p> <p>Crown Berger International, P.O. Box 37, Crown House, Hollins Road, Darwen, Lancs BB3 0BG (Brolac)</p> <p>Akzo Coatings PLC,</p>

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<p>30</p> <ul style="list-style-type: none"> • • • • • • • • <p>34</p>	<p>135 Milton Park, Abingdon Oxon OX14 4SB (Sandtex)</p> <p>ICI Paints Division, Wexham Road, Slough, Berks SL2 5DS (Dulux)</p> <p>Sadolin Nobel UK Ltd. Sadolin House, Meadow Lane, St. Ives, Cambs PE17 4UY (Sadolin)</p> <p>Leyland Paint Company, Huddersfield Road, Birstall, Batley, West Yorkshire WF17 9XA (Spraylux)</p> <p>Sigma Coatings Ltd, Sigma House, Tingewick Road, Buckinghamshire MK18 1ED (Sigmulto)]</p> <p>PREPARATION GENERALLY:</p> <p>To BS 6150, Section 4.</p> <p>Materials used in preparation to be types recommended by their manufacturers and the coating manufacturer for the situation and surfaces being prepared.</p> <p>Substrates must be sufficiently dry in depth.</p> <p>Remove efflorescence, dirt, grease and oil.</p> <p>Remove organic growths and infected coatings/decorations. Apply biocidal solution to assist removal and, where necessary, apply residual effect biocidal solution to inhibit regrowth.</p> <p>Fill joints, cracks, holes and other depressions with stoppers/fillers and abrade flush with surface. Apply oil based stoppers/fillers after priming. Apply water based stoppers/fillers before priming unless recommended otherwise by manufacturers.</p> <p>Remove dust and residues after preparation.</p> <p>Ensure that doors, opening windows, etc, are eased before coating. Prime any resulting bare areas.</p> <p>PREVIOUSLY COATED SURFACES GENERALLY:</p> <p>Prepare in accordance with BS 6150, Section 6.</p> <p>When removing or partially removing coatings, use methods which will not damage the substrate or adjacent surfaces or adversely affect subsequent coatings.</p> <p>Carefully remove all loose, flaking or otherwise defective areas to a firm edge.</p> <p>Completely remove alkali affected coatings.</p> <p>Where coatings are suspected of containing lead, obtain instructions before proceeding.</p> <p>Where additional substrates containing asbestos are revealed, obtain instructions before proceeding.</p> <p>Where significant rot, corrosion or other degradation of substrates is revealed, obtain instructions before proceeding.</p> <p>Thoroughly clean retained coatings with appropriate detergent solutions or solvents to remove all dirt, grease and contaminants. Abrade gloss coated surfaces when still wet to provide a key.</p> <p>Apply additional preparatory coats to areas of partial removal to restore original coating thicknesses.</p>

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	<p>Abrade junctions to give a flush surface. Where coatings are completely removed, prepare surfaces as specified for uncoated surfaces.</p>
35	<p>FIXTURES: Before commencing work, remove the following fixtures and fittings, set aside and replace on completion: [As detailed in the Schedule of Works]</p>
37	<p>TIMBER PREPARATION:</p> <ul style="list-style-type: none"> • Abrade to a smooth finish with lightly rounded arrises. • Ensure that any degraded timber substrate has been repaired. • Ensure that fasteners are countersunk sufficiently to hold stoppers/fillers. • Apply two coats of knotting to resinous areas and knots. • Abrade defective preprimed timber and recoat.
39	<p>STEEL PREPARATION:</p> <ul style="list-style-type: none"> • Abrade defective primer, corrosion and loose scale back to bare metal. • Treat any residual rust with a proprietary removal solution. Prime as soon as possible.
41	<p>MASONRY/RENDERING PREPARATION: Remove loose and flaking material with a stiff brush.</p>
43	<p>PLASTER PREPARATION: Scrape off nibs, trowel marks and plaster splashes. Abrade any overtrawelled areas.</p>
45	<p>EXISTING PAINTED WINDOWS:</p> <ul style="list-style-type: none"> • Remove existing paint to the extent specified or instructed. • Remove old paint encroaching beyond the glass sight line. • Remove loose and defective putty. • Thoroughly clean putty cavities and junctions between previously painted surfaces and glass. • Patch prime, reputty and paint as soon as sufficiently hard.
50	<p>POINTING TO EXISTING FRAMES:</p> <ul style="list-style-type: none"> • Remove defective sealant pointing. • Thoroughly clean the joint recess, remove all dust and seal joint surfaces as recommended by sealant manufacturer. • Check that depth of joint is approximately half its width, and adjust using recommended backing strip if necessary. • Repoint neatly using mastic gun. • Sealant manufacturer and reference: [as specified]
55	<p>EXISTING GUTTERS: Clean inside of gutters before preparing and coating. Clean out defective joints and seal with approved jointing material.</p>
56	<p>EXISTING GUTTERS: Clean inside of gutters (even though not to be coated). Clean out defective joints and seal with approved jointing material.</p>
61	<p>COATING GENERALLY:</p> <ul style="list-style-type: none"> • To BS 6150, Section 5. • Do not use materials which show any defects when applied. Do not thin or intermix unless recommended otherwise. • Apply priming coats on the same day preparation is completed. • Apply coatings to clean, dry surfaces in accordance with the manufacturer's recommended intervals between coats. Apply evenly, with uniform colour, free from brush marks, sags, runs and other

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•	defects. Protect drying and completed work from damage.
68	STAINING TIMBER:
•	Apply primer if recommended by stain manufacturer.
•	Apply stain in flowing coats. Brush out before set to produce uniform depth of colour.
70	EXTERNAL DOORS: Prime and coat bottom edges before hanging.
75	BEAD GLAZING: Joinery which is to be stained must have the first two coats of the staining system applied to rebates and beads before glazing.
76	BEAD GLAZING: Joinery which is to be varnished must have the first two coats of varnish applied to rebates and beads before glazing.
77	BEAD GLAZING: Joinery which is to be painted must have the primer and one undercoat applied to rebates and beads before glazing.
80	PUTTY GLAZING: Allow putty to set for 7 days then, within a further 14 days, seal with an oil based primer. Ensure that putty is fully protected by coating system as soon as it is sufficiently hard. Extend finishing coats on to glass up to sight line.
90A	COMPLETION: Ensure that opening lights and other moving parts move freely. Remove all masking tape and temporary coverings.
100	WORKS TO SURFACES CONTAINING ASBESTOS
100A	Asbestos surfaces that are specified for coating shall be prepared in a manner that reduces the possibility of the release of asbestos fibres. Power sanding will not be permitted.
100B	The contractor must familiarise his operatives with the HSE Guidance Note EH71 'Work with asbestos cement and asbestos insulating board'. Risk assessment shall be carried out and provided to the planning supervisor and/or contract administrator prior to work commencing.
100C	Prepare all asbestos surfaces by washing down. Remove any flaking paint. Thoroughly wet exposed surfaces and continue to dampen as preparation continues. Defective film to be removed by scraping or paint stripper (nitrous water soluble or equivalent). Collect all paint film and other debris as work proceeds. Store all debris in clearly labelled heavy duty polythene bags marked "Asbestos waste" and dispose of at approved disposal site.
100D	Any abrading of asbestos surfaces or edges of paint film to be carried out wet and the debris disposed of as Clause 625C.
100E	Exposed surfaces to be cleaned down with damp cloths that shall be disposed of as Clause 625C.
100F	As soon as preparation is complete and substrate is sufficiently dry apply primer.
100G	Rubbing down between coats should be carried out in a manner that does not expose the asbestos substrate. If it does the exposed surface must be primed and sealed without delay.
100H	Ensure windows and doors are secured closed whilst preparation is being undertaken. Exclude all

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	visitors, building users and operatives not involved in the preparation from the area until preparation is complete.
100I	Thoroughly clean the area and remove all debris, protective clothing, abrasive paper and cleaning wipes as contaminated waste all as Clause 625C.
N10	GENERAL FIXTURES/FURNISHINGS/EQUIPMENT
80	SEALANT POINTING TO [GENERAL AREAS] <ul style="list-style-type: none"> • Sealant: Silicone based to BS 5889, Type B with fungicide. Colour to approval. • Application: As section Z22.
N13	SANITARY APPLIANCES/FITTINGS
70	INSTALLATION GENERALLY: <ul style="list-style-type: none"> • Fix appliances securely to structure, without taking support from pipelines, level and plumb and so that surfaces designed to fall drain as intended. • Unless specified otherwise, use jointing and bedding compounds recommended by the manufacturers of appliances, accessories and pipes to form watertight joints between appliances and backgrounds (except cisterns) and between appliances and discharge pipes. • Prevent use of appliances for any purpose until Practical Completion.
75	CISTERNS: <ul style="list-style-type: none"> • Obtain cistern operating components from cistern manufacturer. Ensure that ballvalve matches pressure of water supply. • Ensure that overflow pipe is fixed to falls, and located to give visible warning of discharge. Agree position with CA.
80A	SEALANT POINTING: <ul style="list-style-type: none"> • Sealant: silicone based to BS 5889, Type B with fungicide. Application: As section Z22.
P20	UNFRAMED ISOLATED TRIMS/SKIRTINGS/SUNDRY ITEMS
10A	[COMPONENTS AS SPECIFIED] <ul style="list-style-type: none"> • Quality of timber and fixing: To BS 1186:Part 3. Moisture content at time of fixing: [8] to [12]% • Preservative treatment: Organic solvent as section Z12 and BWPDA Commodity Specification C5. Desired service life: [30] years. • Profile: [as detailed on drawing] •
50	INSTALLATION GENERALLY: <ul style="list-style-type: none"> • Joinery workmanship to be as section Z10 unless specified otherwise. • Methods of fixing and fastenings to be as section Z20 unless specified otherwise. • Straight runs to be formed in single lengths wherever possible. Location and method of forming running joints to be approved by the CA where not detailed. • All joints at angles to be mitred unless specified otherwise.

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<ul style="list-style-type: none"> • • 	<p>Moisture content of timber and wood based boards to be maintained during storage and installation within the range specified for the component.</p>
<p>R11</p>	<p>FOUL DRAINAGE ABOVE GROUND</p>
<p>10A</p> <ul style="list-style-type: none"> • • 	<p>PLASTICS SOIL VENT PIPEWORK AND WC BRANCHES: Pipes, fittings and accessories: PVC-U to BS 4514, Kitemark certified.</p>
<p>20A</p> <ul style="list-style-type: none"> • • 	<p>PLASTICS BRANCH PIPEWORK: Pipes, fittings and accessories: [PCV-U] to BS 5255, Kitemark certified.</p>
<p>40A</p> <ul style="list-style-type: none"> • 	<p>FLOOR DRAINS: Outlet: Type and direction to suit pipework with adaptors and connections recommended for the purpose by drain manufacturer.</p>
<p>45</p>	<p>AIR ADMITTANCE VALVES: Agreement certified. Install in a vertical position. Fit the manufacturers insulating cover in unheated locations.</p>
<p>50</p> <ul style="list-style-type: none"> • • • • • • • 	<p>INSTALLATION GENERALLY: Install pipes, fittings and accessories in accordance with BS 5572, so that appliances drain quickly, quietly and completely at all times and discharge is conveyed without crossflow, backfall, leakage or blockage. Obtain all components for each type of pipework from the same manufacturer unless specified otherwise. Provide access fittings and rodding eyes as necessary in convenient locations to permit adequate cleaning and testing of pipework. Provide for thermal and building movement when fixing and jointing, and ensure that clearances are not reduced as fixing proceeds. Where not specified otherwise use plated, sherardized, galvanized or nonferrous fastenings, suitable for the purpose and background, and compatible with the material being fixed or fixed to. Comply with restrictions on the cutting of holes, chases, notches, etc., installation of pipe sleeves and fire stopping specified in section P31.</p>
<p>60</p> <ul style="list-style-type: none"> • • • 	<p>PIPEWORK Fix securely at specified centres plumb and/or true to line with additional supports as necessary at junctions and changes in direction. Fix every length of discharge stack pipe at or close below the socket collar. Make changes in direction of pipe runs only where shown on drawings unless otherwise approved. Cut ends of pipes to be clean and square with burrs and swarf removed.</p>
<p>70</p> <ul style="list-style-type: none"> • • • • 	<p>PIPEWORK TEST: Temporarily seal open ends of pipework with plugs. Connect a 'U' tube water gauge and pump air into pipework until gauge registers 38 mm. Allow a period for temperature stabilisation, after which the pressure of 38 mm is to be maintained without loss for not less than 3 minutes.</p>

Reference	
<p>S12</p> <p>36</p> <ul style="list-style-type: none"> • • • <p>45</p> <ul style="list-style-type: none"> • • • • • • • <p>52A</p> <ul style="list-style-type: none"> • • • <p>55</p> <ul style="list-style-type: none"> • • • <p>60</p> <ul style="list-style-type: none"> • • • • • • • • <p>65</p> <ul style="list-style-type: none"> • • 	<p>HOT AND COLD WATER (SMALL SCALE)</p> <p>CISTERN(S):</p> <p>Moulded plastics to BS 4213, Kitemark certified, and complying with the additional requirements of BS 7181 unless specified otherwise. Size: [7.5] litres.</p> <p>Valve: Float operated diaphragm type to BS 1212 with plastics float to BS 2456, size to suit water pressure.</p> <p>Outlet pipe to be at least 30 mm above bottom of cistern.</p> <p>SERVICE PIPELINE TO BUILDING:</p> <p>Tube: Blue polyethylene to BS 6572, Kitemark certified.</p> <p>Jointing: As recommended by tube manufacturer.</p> <p>Lay not less than 750 mm below finished ground level.</p> <p>If rising into building within 750 mm of external wall or passing through a void below floor level, fit insulation from floor level to 600 mm beyond external face of building.</p> <p>Seal both ends of pipeducts with nonhardening, noncracking, water resistant compound.</p> <p>Testing: Disconnect from the mains, fill with potable water, and apply at least twice the working pressure for one hour, during which there must be no leakage.</p> <p>THERMOPLASTICS PIPELINES FOR [HOT AND COLD SUPPLIES]</p> <p>Use purpose designed fittings and accessories for all joints, do not improvise. All bends to be cold formed.</p> <p>Cut pipes square using cutter recommended by the manufacturer. Do not use hacksaws. Remove burrs and make neat, clean, fully sealed joints.</p> <p>Do not overtighten compression fittings.</p> <p>WATER PIPELINE SIZES: Calculate sizes to suit the probable simultaneous demand for the building and to ensure:</p> <p>A water velocity of not more than 1.3 m/s for hot water and 2.0 m/s for cold water.</p> <p>Suitable discharge rates at draw off points.</p> <p>A filling time for the cold water storage cistern of not more than one hour.</p> <p>FIXING PIPELINES:</p> <p>Runs to be straight and parallel or perpendicular to walls, floors, ceilings, etc. as appropriate. Obtain approval of routes before commencing work.</p> <p>Where reasonably possible conceal pipe runs within floor, ceiling or roof voids.</p> <p>Run hot pipes above cold where routed together horizontally. Do not run pipes through electrical enclosures or above switch gear, distribution boards or the like.</p> <p>Fix at adequate centres with minimum of bends and offsets.</p> <p>Allow for thermal movement and isolate from structure where necessary to prevent noise or abrasion caused by movement. Pipes passing through walls to be sleeved as specified in section P31.</p> <p>Prevent ingress of dirt during installation.</p> <p>Completed pipelines to be of consistent bore, clean and free from external scratching, toolmarks, distortion, cracks and other defects.</p> <p>INSULATION TO PIPELINES:</p> <p>Fit to all hot and cold water pipelines, including those which are concealed from view, but not to short lengths in prominent positions adjacent to appliances.</p> <p>Material: Preformed flexible closed cell or mineral fibre preformed split tube with thermal conductivity not exceeding 0.045 W/mK and thickness equal to the outside diameter of the pipe up to a maximum</p>

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<ul style="list-style-type: none"> • 	<p>of 40 mm.</p> <p>Fit insulation after completion of testing, ensuring continuity over fittings and at supports, leaving no gaps and with the split on 'blind' side of pipeline.</p>
<p>66</p> <ul style="list-style-type: none"> • • • 	<p>INSULATION TO PIPELINES:</p> <p>Fit to all hot and cold water pipelines, including those which are concealed from view, but not to short lengths in prominent positions adjacent to appliances.</p> <p>Material: Preformed flexible closed cell or mineral fibre preformed split tube with thermal performance to BS 5422.</p> <p>Fit insulation after completion of testing, ensuring continuity over fittings and at supports, leaving no gaps and with the split on 'blind' side of pipeline.</p>
<p>70</p>	<p>EXTERNAL WATER PIPELINES to be insulated where exposed to air and where less than 750 mm below ground level.</p>
<p>75</p> <ul style="list-style-type: none"> • • • • • 	<p>WARNING PIPE:</p> <p>Material: PVC-U to BS 5255, solvent welded joints. Outside diameter to be greater than that of inlet pipe but not less than 22 mm.</p> <p>Difference between normal water level and overflow level to be not less than bore of warning pipe.</p> <p>Fall to be not less than 1 in 10 with supports to prevent sagging, with turned down end, discharging in approved prominent position.</p> <p>Turn down end within the cistern, terminating 50 mm below normal water level.</p> <p>Fit with insulation where the pipe is in an uninsulated space.</p>
<p>80</p>	<p>VENT PIPE to be not less than 20 mm diameter with no restrictions or valves and to discharge over cistern.</p>
<p>85</p>	<p>DISCHARGE PIPE from unvented hot water storage system to be sized to suit the outlet on the safety device, laid to a fall not less than 1 in 80 and to discharge via an air break and tundish to [prominent position]</p>
<p>90</p> <ul style="list-style-type: none"> • • 	<p>GAS SUPPLY PIPELINES/INSTALLATION GENERALLY: Install and test to BS 6891.</p> <p>Ensure that gas supply meter and distribution pipelines are adequate for the maximum anticipated demand.</p> <p>Fit service cocks to permit removal of appliances.</p>
<p>95</p> <ul style="list-style-type: none"> • • • • • • 	<p>TESTING THE SYSTEM:</p> <p>Give at least 3 days notice to CA before testing.</p> <p>Thoroughly flush out all parts of the system, fill with water, remove all air and check for leaks. Carry out hydraulic pressure test to twice the working pressure on all inaccessible or buried pipelines. If leaks are evident, repair and repeat test.</p> <p>Run system to maximum operating temperature and allow to cool for at least 3 hours. Test to 1.5 times the design maximum pressure, to the Water Supply (Water Fittings) Regulations, schedule 2, paragraph 12, and check for leaks. If leaks are evident, repair and repeat test.</p> <p>Check and adjust operation of all equipment, controls and safety devices. Check operation of all outlets for satisfactory rate of flow and temperature.</p>
<p>T32</p>	<p>LOW TEMPERATURE HOT WATER HEATING (SMALL SCALE)</p>
<p>11</p> <ul style="list-style-type: none"> • 	<p>SYSTEM CAPACITY:</p> <p>Output of heating surface area in any space to be near to, but not less than, the design heat loss for</p>

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<ul style="list-style-type: none"> • 	<p>that space, making appropriate additional allowances for anticipated pattern of use, thermal capacity of the construction and any special exposure conditions.</p> <p>Boiler output to be not less than the total calculated heat loss, including emission from the system pipelines.</p>
<p>16</p> <ul style="list-style-type: none"> • 	<p>INSTALLATION GENERALLY:</p> <ul style="list-style-type: none"> • Complete the design, install and balance the system so that it complies with the water supply byelaws/regulations, and is safe, efficient, free from leaks, excessive noise and vibration. • All installation work to be carried out by qualified operatives. • Electrical work in connection with the installation must be in accordance with BS 7671 (The IEE Wiring Regulations). • Comply with restrictions on the cutting of holes, chases, notches, etc. specified in section P31. • In locations where moisture is present or may occur, use corrosion resistant fittings/fixings and avoid contact between dissimilar metals by use of suitable washers, etc. • All equipment, pipework, components, valves, etc. to be fully accessible for maintenance, repair or replacement. • Installation to be fitted with vents at high points and draining taps at low points to facilitate purging and draining.
<p>30</p>	<p>EXISTING CHIMNEY: Thoroughly clean. Carry out a core ball test and smoke test. If any obstructions or leaks are revealed, submit proposals for making good and obtain approval.</p>
<p>38</p>	<p>AIR SUPPLY TO APPLIANCE: Inform CA of air supply requirements and agree size(s) and location(s) of vent(s).</p>
<p>40A</p> <ul style="list-style-type: none"> • • 	<p>OIL STORAGE TANK:</p> <ul style="list-style-type: none"> • Design and install to BS 799:Part 5 and BS 5410: Part 1, complete with cradles, drain valve, vent pipe, filling line, filling point, overflow warning device, outlet valve, filter, fire valve, draw off line, manhole cover and dipstick. • Manufacturer and reference: [as Schedule of Works]
<p>44</p>	<p>LPG STORAGE TANK AND SERVICE PIPE: A provisional sum is included elsewhere for the supply and installation of the storage tank, service pipe and regulator assemblies.</p>
<p>48</p>	<p>FEED AND EXPANSION CISTERN: Included in combination unit specified in section S12.</p>
<p>52</p> <ul style="list-style-type: none"> • • 	<p>CIRCULATING PUMP(S):</p> <ul style="list-style-type: none"> • To BS 1394-2 or BS EN 1151 and BS EN 60335-2-51. • Adjustable to give the required temperature differential between flow and return and with a facility for venting.
<p>56A</p>	<p>RADIATORS: To BS 3528.</p>
<p>58A</p> <ul style="list-style-type: none"> • 	<p>TOWEL WARMER RADIATORS: Install on primary hot water circuit.</p>
<p>64</p> <ul style="list-style-type: none"> • • 	<p>VALVES GENERALLY:</p> <ul style="list-style-type: none"> • Types approved for the purpose by the local water supply undertaker and of the appropriate pressure/temperature ratings. • Provide in convenient locations for isolation and regulation of all equipment, heat emitters and

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	subcircuits. <ul style="list-style-type: none"> • Fit with handwheels where appropriate for isolation by the building user.
66A	MANUAL RADIATOR VALVES: <ul style="list-style-type: none"> • Copper alloy to BS 2767. • Fit handwheel on flow side of radiator and lockshield on return side.
68A	THERMOSTATIC RADIATOR VALVES: <ul style="list-style-type: none"> • To BS EN 215-1 and capable of providing isolation. • Fit lockshield valve to BS 2767 with matching finish to return side of radiator.
74A	THERMOPLASTICS PIPELINES FOR [WATER SERVICES] <ul style="list-style-type: none"> • Use purpose designed fittings and accessories for all joints, do not improvise. All bends to be cold formed. • Cut pipes square using cutter recommended by the manufacturer. Do not use hacksaws. Remove burrs and make neat, clean, fully sealed joints. • Do not overtighten compression fittings.
76	FIXING PIPELINES: <ul style="list-style-type: none"> • Runs to be straight and parallel or perpendicular to walls, floors, ceilings, etc. as appropriate. Obtain approval of routes before commencing work. • Where reasonably possible, conceal pipe runs within floor, ceiling or roof voids. • Run hot pipes above cold where routed together horizontally. • Do not run pipes through electrical enclosures or above switch gear, distribution boards or the like. • Fix at adequate centres with minimum of bends and offsets. • Allow for thermal movement and isolate from structure where necessary to prevent noise or abrasion caused by movement. Pipes passing through walls to be sleeved as specified in section P31. • Prevent ingress of dirt during installation. • Completed pipelines to be of consistent bore, clean and free from external scratching, toolmarks, distortion, cracks and other defects.
80	INSULATION TO PIPELINES: <ul style="list-style-type: none"> • Fit to all pipelines, but not to short lengths in prominent positions adjacent to emitters. • Material: Preformed flexible closed cell or mineral fibre preformed split tube with thermal conductivity not exceeding 0.045 W/mK and thickness equal to the outside diameter of the pipe up to a maximum of 40 mm. • Fit insulation after completion of testing ensuring continuity over fittings and at supports, leaving no gaps and with the split on 'blind' side of pipeline.
86	VENT PIPE to be not less than 20 mm diameter with no restrictions or valves and to discharge over feed and expansion cistern.
90	GAS SUPPLY PIPELINES/INSTALLATION GENERALLY: <ul style="list-style-type: none"> • Install and test to BS 6891. • Ensure that gas supply meter and distribution pipelines are adequate for the maximum anticipated demand. • Fit service cocks to permit removal of appliances.
95	TESTING AND BALANCING: <ul style="list-style-type: none"> • Give at least 3 days notice to CA before testing. • Thoroughly flush out all parts of the system without contaminating circulating pump. Remove pump if necessary.

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<ul style="list-style-type: none"> • • • • 	<p>Completely fill system, remove all air and check for leaks.</p> <p>Run system to maximum operating temperature and allow to cool for at least 3 hours. Test to 1.5 times the design maximum pressure, to the Water Supply (Water Fittings) Regulations, schedule 2, paragraph 12, and check for leaks. If leaks are evident, repair and repeat test.</p> <p>When boiler is operating check and adjust operation of all equipment, controls and safety devices. Balance system to achieve satisfactory temperature at each heat emitter and in the hot water system.</p>
<p>V90</p>	<p>GENERAL LIGHTING AND POWER (SMALL SCALE)</p>
<p>5A</p>	<p>THE INSTALLATION:</p>
<ul style="list-style-type: none"> • 	<p>Lighting and power: Separately controlled circuits with further subdivision where necessary to ensure compliance with BS 7671 (The IEE Wiring Regulations):</p>
<p>10</p>	<p>INSTALLATION GENERALLY:</p>
<ul style="list-style-type: none"> • • • • • • • 	<p>Liaise with the electricity supply company as necessary to ensure suitability of supply and earthing arrangement, and to ensure connection when required.</p> <p>Install, test and commission the electrical work in accordance with BS 767 and requirements of the electricity supply company to provide a safe, well insulated, earth protected system capable of supplying the anticipated maximum demand.</p> <p>Installation work to be carried out by qualified electricians fully conversant with the IEE Wiring Regulations.</p> <p>Accessories necessary to complete the installation to be types recommended for the purpose by relevant equipment manufacturer.</p> <p>In locations where moisture is present or may occur, use corrosion resisting fastenings and avoid contact between dissimilar metals.</p> <p>Comply with restrictions on the cutting of holes, chases, notches, etc. specified in section P31.</p>
<p>15</p>	<p>STEEL CONDUIT AND FITTINGS [TO SPECIFIED BACKGROUND]</p>
<ul style="list-style-type: none"> • • • • 	<p>Screwed rigid conduit to BS 4568:Parts 1 and 2 or BS EN 50086-1 and 2-1, complete with all necessary junction boxes, fixings, etc.</p> <p>Finish: [as specified]</p> <p>Minimise number of joints. Use bends and/or junction boxes at changes of direction. Fix boxes independently of conduit. Tightly screw joints with no thread showing. Fit rubber bushes at open ends.</p> <p>Do not use as a protective conductor.</p>
<p>16</p>	<p>PVC CONDUIT AND FITTINGS [TO SPECIFIED BACKGROUND]</p>
<ul style="list-style-type: none"> • • 	<p>To BS EN 50086-1 and 2-1, duty appropriate to usage, complete with all necessary junction boxes, fixings, etc.</p> <p>Minimise number of joints. Use proprietary bends and/or junction boxes at changes of direction. Fix boxes independently of conduit.</p>
<p>20A</p>	<p>PVC SURFACE TRUNKING SYSTEM [TO SPECIFIED LOCATIONS]</p>
<ul style="list-style-type: none"> • 	<p>To BS 4678:Part 4.</p> <p>Use proprietary units to form junctions and changes of direction wherever possible.</p>
<p>25</p>	<p>INSTALLING CABLES GENERALLY:</p>
<ul style="list-style-type: none"> • • • 	<p>Cables to be BASEC certified.</p> <p>Cable routes to be straight and vertical or horizontal unless shown otherwise. Concealed cable runs to wall switches and outlets to be vertically in line with the accessory.</p> <p>Conceal cables wherever possible; obtain approval of locations where exposed to view.</p>

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<ul style="list-style-type: none"> • • • • 	<p>Position cables at least 150 mm clear of other services. Cables running parallel and adjacent to heating pipes to be located below the pipes.</p> <p>Sleeve cables passing through masonry walls.</p> <p>Do not run cables in spaces where they will be surrounded or covered by insulation. Where this is not practical, size cables accordingly and inform CA.</p> <p>Protect cables in plaster with galvanized steel channel.</p>
<p>30</p> <ul style="list-style-type: none"> • • • 	<p>MICC CABLES:</p> <p>Neatly dress cable into position using correct tools. Avoid corrugating sheath when bending.</p> <p>Fix cables securely and connect to equipment and boxes with PVC shrouded glands.</p> <p>As soon as a length of cable has been installed, fit permanent seals and immediately carry out an insulation test between conductors or between any conductor and cable sheath. Repeat test between 24 and 48 hours later. Only infinity readings will be accepted. Replace any cable which fails and repeat tests.</p>
<p>40</p>	<p>CABLES ENTERING BUILDING(S) FROM BELOW GROUND: Seal both ends of pipeduct to a depth of not less than 150 mm, with an approved nonhardening, noncracking, water resistant compound. Alternatively, fit a proprietary moulded pipeduct seal.</p>
<p>45A</p> <ul style="list-style-type: none"> • • • • • 	<p>CONSUMER CONTROL UNIT/DISTRIBUTION BOARD:</p> <p>To BS 5486.</p> <p>Rating: To suit maximum demand.</p> <p>Number of ways: One per circuit plus [4] spares.</p> <p>Each way to be permanently labelled to identify circuit and rating.</p> <p>Circuit protection: Miniature circuit breakers to BS EN 60898.</p> <p>RCCB to BS 4293 to protect circuit(s) to [as specified]</p>
<p>50</p>	<p>ELECTRICAL ACCESSORIES: Types shown on drawings, complete with mounting boxes and, unless specified otherwise, to be from [single source]</p>
<p>85A</p> <ul style="list-style-type: none"> • 	<p>FIRE DETECTION AND ALARM SYSTEM:</p> <p>To BS 5839.</p> <p>Inspection, initial testing, commissioning and certification: To BS 5839:Part 1, clause 26. Give at least 24 hours notice before commencing tests. After satisfactory completion of tests submit two copies of certificates as BS 5839:Part 1, Appendices B and C, to CA.</p>
<p>90</p>	<p>SMOKE ALARMS:</p> <p>Self-contained type to BS 5446:Part 1, Kitemark certified.</p> <p>Manufacturer and reference: [as Schedule of Works]</p> <p>Operation: Mains with DC battery back-up.</p>
<p>95</p> <ul style="list-style-type: none"> • • • • • 	<p>GENERAL INSPECTION AND TESTING:</p> <p>To BS 7671.</p> <p>Give at least 24 hours notice before commencing tests.</p> <p>After satisfactory completion of tests submit two copies of inspection and completion certificates to CA.</p> <p>Ensure that labels and signs required by the Regulations are securely fixed in the correct locations.</p>
<p>Z10</p>	<p>PURPOSE MADE JOINERY</p>

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10	<p>FABRICATION GENERALLY:</p> <ul style="list-style-type: none"> • Fabricate joinery components to BS 1186:Part 2. • Form sections out of the solid when not specified otherwise. Carefully machine timber to accurate lengths and profiles. After machining, sections to be free from twist and bowing, and surfaces to be smooth and free from tearing, wooliness, chip bruising and other machining defects. • Assemble with tight, close fitting joints to produce rigid components free from distortion. • All screws to have pilot holes. Screw heads to be countersunk not less than 2 mm below timber surfaces that will be visible in completed work.
20	<p>CROSS SECTION DIMENSIONS of timber shown on drawings are finished sizes. Maximum permitted deviations from finished sizes to be as stated in BS EN 1313:Part 1 for softwood sections and BS 5450 for hardwood sections.</p>
30	<p>PRESERVATIVE TREATED TIMBER:</p> <ul style="list-style-type: none"> • Carry out as much cutting and machining as possible before treatment. • Retreat all timber which is sawn along the length, ploughed, thickened, planed or otherwise extensively processed. • Treat surfaces exposed by minor cutting and drilling with two flood coats of a solution recommended for the purpose by main treatment solution manufacturer.
40	<p>MOISTURE CONTENT of timber and wood based boards to be maintained within the range specified for the component during manufacture and storage.</p>
50	<p>FINISHING AND PROTECTING:</p> <ul style="list-style-type: none"> • Sand all joinery to give smooth, flat surfaces suitable to receive specified finishes. Arrises to be eased unless specified otherwise. • Before assembly, seal exposed end grain of external components with aluminium primer or clear sealer as appropriate and allow to dry. • Protect completed joinery against damage, dirt, moisture and other deleterious substances. •
Z20	FIXINGS/ADHESIVES
10	<p>FIXING GENERALLY: Use fixing and jointing methods and types, sizes, quantities and spacings of fasteners which are suitable having regard to:</p> <ul style="list-style-type: none"> • Nature of and compatibility with product/material being fixed and fixed to, • Recommendations of manufacturers of fasteners and manufacturers of components, products or materials being fixed and fixed to, • Materials and loads to be supported, • Conditions expected in use, • Appearance, this being subject to approval.
20	<p>FASTENINGS for materials and components forming part of external construction to be of corrosion resistant material or have a corrosion resistant finish.</p>
25	<p>FASTENERS for materials and components:</p> <ul style="list-style-type: none"> • Forming part of external construction but not directly exposed to the weather to be of corrosion resistant material or have a corrosion resistant finish. • Directly exposed to the weather to be of corrosion resistant material.
30	<p>FIXING THROUGH FINISHES: Ensure that fasteners and plugs (if used) have ample penetration into the backing.</p>

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35	<p>PACKINGS:</p> <ul style="list-style-type: none"> • Provide noncompressible, rot proof packings at fixing points to take up tolerances and prevent distortion. • Ensure that packings do not intrude into zones that are to be filled with sealant.
40	<p>CRAMP FIXING:</p> <ul style="list-style-type: none"> • When not specified otherwise, position cramps not more than 150 mm from each end of frame sections and at 600 mm maximum centres. • Secure cramps to frames with matching screws as masonry work proceeds, and fully bed in mortar.
50	<p>PELLETING: Countersink screw heads 6 mm below timber surface and glue in grain-matched pellets cut from matching timber. Finish off flush with face.</p>
60	<p>ADHESIVES:</p> <ul style="list-style-type: none"> • Types: As specified in the relevant section. • Surfaces to receive adhesive to be sound, unfrozen and free from contamination likely to affect bond. Where necessary, clean as recommended by manufacturer. • Adjust surface regularity and texture as necessary to suit bonding and gap filling characteristics of adhesive. • Observe manufacturer's and statutory requirements for storage and safe usage of adhesives. • Do not use in unsuitable environments or beyond the storage period recommended by the manufacturer. • Apply using recommended spreaders/applicators to ensure correct coverage. Bring surfaces together within recommended time period and apply pressure to ensure full bonding. • Remove surplus using methods recommended by manufacturer, without damaging surfaces.
Z22	SEALANTS
10	<p>SEALANT TYPES: As specified in the relevant section.</p>
20	<p>SUITABILITY OF JOINTS: Before commencing, check that:</p> <ul style="list-style-type: none"> - Joint dimensions are within limits specified for the sealant. - Surfaces are smooth and undamaged. - Preparatory work which must be done before assembly of the joint has been carried out. <p>Inform CA if joints are not suitable to receive sealant and submit proposals for rectification.</p>
30	<p>PREPARING JOINTS:</p> <ul style="list-style-type: none"> • Remove all temporary coatings, tapes, loosely adhering material, dust, oil, grease and other contaminants which may affect bond. • Backing strip, bond breaker, primer: Types recommended for the purpose by sealant manufacturer. • Insert backing strips and/or bond breaker tape into joint leaving no gaps. • Cover adjacent surfaces with masking tape to prevent staining and protect surfaces which would be difficult to clean if smeared with primer or sealant.
40	<p>APPLYING SEALANTS:</p> <ul style="list-style-type: none"> • Do not apply to damp surfaces (unless recommended otherwise), to surfaces affected by ice or snow or during inclement weather. Do not heat joints to dry them or raise the temperature. • Fill joints completely, leaving no gaps, excluding all air and ensuring firm adhesion of sealant to required joint surfaces. Tool the sealant to a neat, slightly concave profile unless specified otherwise.

PREAMBLES

Reference	