

K. JOINERY

K1. ENVIRONMENTAL MANAGEMENT

Refer to the approved Environmental Management Plan submitted in accordance with the requirements of Section 6, ENVIRONMENTAL MANAGEMENT, and ensure the mitigation and waste management processes to counter any environmental impact are established and in place.

All materials intended for use in this project shall, as applicable, conform to the requirements of Section 6, ENVIRONMENTAL MANAGEMENT, Part 7 "SELECTION AND SUPPLY OF PRODUCTS AND MATERIALS".

Particular attention is drawn to the requirements for all painting materials to conform Part EM3 "CRITERIA FOR SEALANTS, CAULKING AND ADHESIVES" including site control, reuse and proper 'disposal of any residue'.

K.2 JOINERY FITMENTS

K2.1 SPECIALIST SUBCONTRACTORS

All joinery fitments, joinery framing and other fabricated items shall be manufactured, installed and finished by approved competent specialist manufacturers who are skilled in types of work required under this Contract.

K2.2 MATERIALS

Joinery Timbers

Timbers used in joinery manufacture shall be sound, free from cracks, shakes, large or loose knots, stains, warp, twist, rot, indications of borer attack and similar unacceptable defects. Unless otherwise specified or indicated, all joinery timbers shall be kiln dried and reconditioned to stable equilibrium moisture content suitable for the various locations in which they are used.

For dressed timbers, rough surfaces, raised grain, large knots, splits, shakes, or similar obvious blemishes shall be sufficient for rejection. Surfaces left by a buzzer will not be accepted as finished dressed surfaces.

Face Veneers

Unless otherwise specified, face veneers shall conform with the following requirements: -

- Where an opaque painted finish is required, face veneers may be merchantable grade.
- Where covered by a surfacing material the veneers may be selected grade back veneers as described in AS 2270.
- Veneers which will not be visible in completed joinery items shall now be of lower quality than merchantable grade back veneers as described in AS 2270.

Stainless Steel

Unless otherwise indicated, stainless steel shall be austenitic stainless steel to AS 1449 and grade 304 unless otherwise noted as 316.

K2.2 MATERIALS (Continued)

Particleboard

Shall comply with AS / NZS 1859.1 for flat pressed particleboard. Formaldehyde emission must be less than 10mg / 100g and no urea formaldehyde shall be used in the manufacturing process. Particleboard shall be plain or veneered and of thickness as specified and/or indicated on the drawings. In all areas use MR particleboard.

Standard Plastic Laminate

Plastic laminate shall comply with the requirements of AS 2924 and AS 2925 and, unless otherwise specified, shall be 1.2mm thick for benchtops and 0.8mm thick for other surfaces of colour and texture selected by the Superintendent. Use post form grade where necessary to comply with detail requirements.

Standard balancing plastic laminate backing sheets or other approved sealing materials shall be used on reverse faces of joinery members where no other covering or finish is specified or indicated by the drawings.

Within limits of maximum sizes of sheets manufactured, plastic laminate materials shall be supplied in sheets large enough to cover the full areas of base surfaces without intermediate jointing. When ordering, full allowance shall be included for cutting to waste.

Plastic laminate materials shall be fixed to base surfaces with an approved waterproof adhesive of a type recommended by the laminate manufacturer.

Compressed Plastic Laminate

Panels shall be Trespa Compact Laminate in thickness detailed and in selected colours. Edges shall be machined and smoothed, profiled or rounded as detailed.

Plywood

Plywood shall conform to the following Australian Standards: -

For interior use - where paint finished or concealed - AS 2270 Merchantable grade Type D bond.

For damp areas - AS 2271 Type A prime painted on all edges.

Exposed grain plywood shall be select grade quarter cut veneers and shall be of matching type, colour and grain. Joints shall be closely fitted to fine lines and matched.

K2.3 FIXING DEVICES

Provide all screws, nails, bolts, anchors, brackets, adhesives and other fixing devices necessary for the satisfactory completion of the joinery installations.

Screws used in particleboard construction shall be threaded for their full length and shall be of a type designed specifically for use in particleboard. A pilot hole shall be drilled for each screw. Except where the screws are required to be removable, all screws shall be set in Urea or PVA adhesive to ensure positive anchoring.

Anchors for fixing to concrete or masonry shall be of approved metal expanding type used strictly in accordance with the manufacturer's recommendations. Wooden plugs shall not be used for fixings under any circumstances.

K2.4 WORKMANSHIP

Before commencement of manufacture of any fitment, examine all relevant drawings in detail, verify all dimensions, ascertain all other necessary information and requirements, and ensure that each item conforms with the requirements of the Contract and fits accurately into correct position.

A high standard of workmanship is required in the manufacture, installation and finish of all items. Particular care shall be taken in jointing, with materials accurately cut and fitted, correctly aligned and securely fixed. Badly fitted jointing shall be sufficient reason for the rejection of any item.

The manufacture and installation of fitments shall include adequate provision for the effects of expansion and contraction movements due to moisture and/or air temperature.

Surface Finish

All plastic laminate faces shall be free of defects, chips, cracks, breaks, etc.

Unless specified otherwise, all timber and / or face veneers which will be visible in the completed joinery installations shall be dressed and/or sanded to provide smooth finishes consistent with the relevant descriptions in AS 1728. The following finishes shall be regarded as the minimum standard required under this Contract unless other finishes are specified:-

Dressed Surfaces (Ref. Table A2 in AS 1728)

- For opaque painted finishes : Dressed surface Type No. 4

Abraded Surfaces (Ref. Table A3 in AS 1728)

- For opaque painted finishes : Abraded surface Type No. 2

NB. Dressed surface Type No. 5 shall be further sanded as necessary to remove pause marks, raised grain, and similar surface marks and irregularities.

For all abraded surfaces, final sanding shall be parallel to the grain of the timber.

Hardware

All hardware required for fitments shall be assembled, installed and adjusted as necessary in accordance with the relevant manufacturer's recommendations.

Finishes of fixing screws which will be visible in the completed work shall match closely with the finish of the relevant hardware item.

Concealment of Fixings

Unless specified or detailed otherwise, heads of screws and other fixing devices shall not be exposed on external surfaces which will be visible in the completed works.

Where location of fixing screws cannot be avoided in exposed external surfaces of fitments, they shall be deeply countersunk and the screw holes filled as follows:-

- In opaque painted surfaces - filled with putty, finished flush, and sanded to smooth surface finish.
- Screws which are required to be removable for maintenance access or other purposes shall be chromium plated and countersunk flush with capping.

K2.4 WORKMANSHIP (Continued)**Concealed Fixing**

Compact laminate wall panels shall be fitted to rear framing onto continuous strips of elastomeric adhesive, held temporarily in position until cured.

Incidental Requirements

The manufacture and installation of fitments shall include provision where required, of all furrings, blocking pieces, backings, grounds, fillers, wedges, cover plates, framing, supports, fixings and other incidental and ancillary items necessary for the satisfactory completion of the works.

Handling

Particular care shall be taken in handling, transporting, hoisting and installation to ensure that fitments are not overstressed, twisted, damaged or marked.

Where necessary, suitable temporary bracing shall be provided to protect fitments from damage.

K2.5 MANUFACTURING DETAILS

The details of construction indicated by detailed drawings or described in the specification shall be regarded as setting a minimum standard of requirements, quality and appearance.

Such details do not necessarily preclude Manufacturers from using their own preferred practices and techniques, provided that requirements, quality and appearance indicated by the Contract Documents are produced to the satisfaction of the Superintendent. However, fundamental variations to details which would alter the appearance of any fitment will not be accepted.

Nothing shall prevent the Contractor or Manufacturers from suggesting amendments to details, with a view to improving efficiency and economy in manufacturing methods and/or performance of joinery works in service, but such proposed amendments shall not be adopted until they have been approved by the Superintendent in writing.

K2.6 FINISHES

All fitments with unsealed surfaces which will be built into walls must be fully prime painted or protectively laminated before leaving the factory. After delivery to the site, all primed surfaces which will be concealed in the structure shall be painted with one additional coat of the same primer. All areas of other surfaces shall be retouched as necessary to repair all patches of the original primer damaged or rubbed off during transporting and handling. Damaged laminates shall be replaced.

K2.7 SHOP DRAWINGS

Prior to manufacture, submit shop drawings of all fitments for approval by the Superintendent. The shop drawings shall show all relevant details of the manufacture, assembly, installation and finish.

K2.8 VANITY BENCHES

Construct to the details with galvanised steel cantilevered angle brackets welded to rear structural steel galvanised channel.

Brackets shall be taper cut to the details with all edges ground smooth and corners slightly arrised.

Vanity tops shall be 16mm thick waterproof compact laminate with the underface routed out to accommodate the bracket top legs. Seat tops in approved elastomeric adhesive bedding for solid connection.

Form insert gutter from 1.2mm stainless steel to suit the steel channel dimensions and with fall to plumbing outlets, sealed along the top edges.

Construct false wall under vanity benches with 75mm steel stud framing sheeted in 8mm thick compact laminate panels with joints aligned with the cantilever brackets.

Panels designated as access panels shall be mounted on rear fixed, concealed hinges or continuous stainless steel 'piano' hinges and with SCP Lockwood budget lock at top corner.

K2.9 TYPICAL BENCH UNITS

Generally

Construct with Trespa Compact laminate components as detailed and as scheduled in waterproof grade.

Carcass

Construct ends, back, divisions and floor with 8mm thick Trespa panels.

Divisions and ends cut back to form a 100 x 50 clear toe recess. Fit carcass with Furnco levellers or similar for true level and alignment and secure to floor.

To front and exposed ends provide recessed 8mm matching Trespa kickplate with selected plastic laminate finish.

Benchtop

Construct benchtop with 16mm thick waterproof Trespa Compact laminate and support on carcass. Benchtop to have selected laminate finish to all exposed faces and edges. Nosing to be rounded as detailed.

Neatly hole benchtop for sink where indicated.

In wet area around sink provide continuous 50 x 50mm concealed stainless steel angle flashing at back and enclosed ends of benchtop where applicable in accordance with authority requirements. Flashing to be set into sawcut in back of benchtop and all joints shall be sealed with approved silicone.

Adjustable Shelves Inside Cupboards

Fabricate with 16 waterproof Trespa panels. Both faces and all edges to have selected laminate finish. Each shelf shall be supported on four SCP brass shelf supports of approved pattern.

K2.9 TYPICAL BENCH UNITS (Continued)

Divisions and end panels of fitments shall be accurately drilled to provide alternative positions for the adjustable shelves. The holes shall be aligned vertically and spaced accurately at 50mm centres, commencing at 150mm above floor of fitment and finishing not more than 150mm below top of fitment. Each hole shall be fitted with a brass bush of approved pattern and size to fit the shelf supports.

Doors

8mm thick waterproof Trespa panels with selected finish as scheduled.

To each door fit approved magnetic catch with a 6kg pull.

Drawers

Construct to sizes and shapes indicated on the drawings and generally as follows.

Fronts: 8mm thick waterproof Trespa panel lap dovetailed to sides and trenched to floor.

Sides and Back: 8mm thick trenched for floor and back. Sides to be dovetailed to front.

Base: 6mm thick plywood with white laminate finish.

Slides: Approved ball bearing type similar to Cowdroy and fitted with adjustable stop to prevent accidental full withdrawal from unit.

Cutlery unit: In one drawer in Kitchen/Tearoom areas provide approved impact resistant plastic cutlery insert neatly fitted in drawer.

Rubbish tidy: Where shown provide and fit roll out dual bin tidy as scheduled.

Hinges

Unless otherwise indicated provide each hinged door with concealed 180° opening front projecting heavy duty self-closing cabinet hinges with NP or CP finish (similar to Blum). Number of hinges shall be as recommended by the hinge manufacturer to suit door size and weight.

Catches

Fit Howard Silvers or equal 'Touch-Latch' catch to each hinged door leaf and concealed finger groove to each drawer front. Catches to be concealed fix and to have satin nickel steel finish.

Locks

Supply and fit Lockwood 5 pin tumbler cupboard and drawer lock with SCP finish to one only combination door/drawer.

Finish

All surfaces shall be in colours and finish nominated in the Colour Schedule. All panel edges shall be polished smooth in natural dark colour.

K2.10 WALL MOUNTED CUPBOARDS

Provide wall mounted cupboards above bench units and in matching finishes.

Generally construct as for underbench cupboards as applicable.

Doors are detailed to overhang the cupboard base, this forms a "finger pull".

Provide adjustable shelves as noted also as for bench units.

Fit wall splash back panel in Trespa waterproof paneling in accordance with the schedules.

K3. MISCELLANEOUS SANITARY & HOTWATER EQUIPMENT

Supply and install to manufacturer's instructions the following items as scheduled:

- Toilet roll holders
- Recessed soap dispensers
- Dalco grab rails to disabled toilets
- Bradley 2847 semi recessed, combination towel dispenser / waste receptacle / hand dryer
- ZIP underbench boiling water unit B10

All other scheduled sanitary fittings and fixtures to be supplied and fitted by the Hydraulics Sub-contractor.