

1.0 GENERAL

.1 Requirements Include

- .1 Architectural woodwork.

.2 General Requirements

- .1 Specify Custom Grade architectural woodwork in accordance with AWMAC manual.
- .2 Provide BCIT with a full list of finishes and hardware used on the project.
- .3 Materials not identified in these standards must be identified and approved by Owner and be approved by the Authority Having Jurisdiction.

.3 BCIT Sustainability Requirements

- .1 Sustainability Goals - Mandatory Compliance: comply with allowable VOC levels for all adhesives, sealants, Paints and other coatings as outlined in Division 01.

2.0 ADMINISTRATIVE AND SUBMITTAL REQUIREMENTS

.1 BCIT Submittals and Notifications

- .1 Product Data:
 - .1 Data for hardware accessories.
 - .2 Include information on laminate thicknesses.
- .2 Maintenance Manual:
 - .1 Specify inclusion of materials and finishes used for architectural woodwork.
 - .2 Specify inclusion of type and source of cabinet hardware and specialty items used under architectural woodwork and name and telephone number of closest distributor for replacement hardware.
 - .3 Specify inclusion of maintenance procedures and schedules.
 - .4 Specify submission of manufacturer's care and maintenance data for solid surfaces.

3.0 QUALITY ASSURANCE

.1 Requirements

- .1 Perform work in accordance with NAAWS Manual for Custom Grade.
- .2 Manufacture and install to current AWMAC/NAAWS standards.
- .3 Guarantee /Bonding:

Consultants are to provide complete specifications, and review these Technical Standards documents to include BCIT requirements within the specifications as applicable to the project.

- .1 Include AWMAC/NAAWS requirements for inspection if AWMAC GIS is chosen.
- .2 Include either:
 - .1 Two year AWMAC Guarantee Certificate to cover replacement, rework and/or refinishing of deficient Work due to faulty workmanship or defective materials supplied and/or installed by woodwork contractor during AWMAC period following date of issuance; or
 - .2 Maintenance Bond: Provide a two-year maintenance bond to the full value of woodwork contract.

.2 Guarantee / Warranty

- .1 Upon completion of the Work, the Contractor shall furnish the Owner with a two (2) year AWMAC Guarantee Certificate to include replacing and refinishing due to defects and faulty workmanship.
- .2 The Guarantee shall cover replacing and/or refinishing to make good any defects in Architectural Woodwork due to faulty workmanship or defective materials supplied by this section of the specifications, which appear during a two (2) year period following the date of Substantial Performance of the Work.

4.0 PRODUCTS

.1 Manufacturers

- .1 Subject to compliance with specifications the following manufacturers are acceptable for the products indicated:
 - .1 MDF/Particle Board: Sierra Pine, www.sierrapine.com or approved alternative.
 - .2 Alternatives considered for approval.

.2 Stainless Steel Materials

- .1 Stainless Steel Sheet: ASTM A240 / A 240M, Type 304 or 316 (UNS 30400 or 30316), stretcher leveled, with the following mill finish:
 - .1 Finish: No. 4.

.3 Solid Surfacing Materials

- .1 Solid Surfacing Material:
 - .1 Solid cast, filled polymer, nonporous, with through body colors meeting ANSI Z124.3 or ANSI Z124.6.
 - .2 Capable of being sanded or polished to a depth of 0.01 inch (0.25 mm).
 - .3 Coated, laminated or of composite construction not acceptable.
 - .4 Acceptable Product: Corian by Dupont, or approved alternative.

Consultants are to provide complete specifications, and review these Technical Standards documents to include BCIT requirements within the specifications as applicable to the project.

.4 Hardware

- .1 General: To BHMA A156.9. Finish: Brushed stainless steel unless indicated otherwise.
- .2 Drawer and Door Pulls:
 - .1 Rod 'D' shaped, stainless steel, 100mm.
 - .2 Approved alternate.
- .3 Drawer Slides: Side mounted, galvanized steel construction, ball bearings separating tracks, full extension.
- .4 Hinges: Fully concealed, knuckle hinge, opening 180 degrees.
- .5 Cam Locks: As approved by BCIT.
- .6 Drawer Locks: As approved by BCIT.
- .7 Shelf Standards and Rests:
 - .1 Formed steel channels, channels to be counter sunk, surface mounted not acceptable. Space slots for rests at 25 mm (1 in.) centers.
 - .2 Finish: Millwork manufacturer's standard.
 - .3 Provide adequate clips to fit into channels for shelving indicated. Where number of shelves is not indicated provide 3 shelves for each upper cabinet and two shelves for each lower cabinet.

.5 Casework – General

- .1 Cases: Veneer core plywood (no particle board or MDF permitted).
- .2 Doors and drawer fronts: Veneered MDF.
- .3 Millwork designed for clear finish, rotary cut birch or maple, with 19 mm (3/4 inch) solid edging.
- .4 Provide purpose made acid resistant solid surfacing veneer countertops in all labs.

.6 Casework – Plastic Laminate

- .1 Cabinet Construction:
 - .1 Style: Flush overlay.
 - .2 Cores: MDF.
 - .3 Door & Drawer Fronts: Vertical Grade plastic laminate at vertical surfaces. Horizontal Grade plastic laminate at horizontal surfaces. Fire rated at locations indicated.

- .4 Door & Drawer Edges: Vertical Grade plastic laminate at vertical surfaces. Horizontal Grade plastic laminate at horizontal surfaces. Fire rated at locations indicated.
- .5 Semi-exposed Surfaces:
 - .1 Surfaces (other than drawer bodies): High pressure laminate, fire rated where indicated.
 - .2 Drawer Sides and Backs: Edge banded thermo-fused Melamine.
 - .3 Drawer Bottoms: Edge banded thermo-fused Melamine.
 - .4 Shelf Edges: Edge banded thermo-fused Melamine.

.7 Casework – Public Realm

- .1 Cabinet Construction:
 - .1 Style: Flush overlay.
 - .2 Cores: MDF.
 - .3 Door and Drawer Fronts and Backs: Select White Birch, rotary cut or as approved by Owner.
 - .4 Door and Drawer Edges: 6 mm thick solid birch edge banding.
 - .5 Semi-exposed Surfaces:
 - .1 Surfaces (other than drawer bodies): High pressure laminate, fire rated where indicated.
 - .2 Drawer Sides and Backs: Edge banded thermo-fused Melamine.
 - .3 Drawer Bottoms: Edge banded thermo-fused Melamine.
 - .4 Shelf Edges: Edge banded thermo-fused Melamine.

.8 Casework – Wet Laboratories

- .1 Cabinet Construction:
 - .1 Style: Flush overlay.
 - .2 Core: Plywood.
 - .3 Door and Drawer Fronts: Commercial grade 1.5 mm thick plastic laminate.
 - .4 Door and Drawer Edges: Rubber T. to full width of edge.
 - .5 Semi-exposed Surfaces:
 - .1 Surfaces (other than drawer bodies): High pressure laminate, fire rated where indicated.

Consultants are to provide complete specifications, and review these Technical Standards documents to include BCIT requirements within the specifications as applicable to the project.

- .2 Drawer Sides and Backs: Edge banded thermo-fused Melamine.
- .3 Drawer Bottoms: Edge banded thermo-fused Melamine.
- .4 Shelf Edges: Edge banded thermo-fused Melamine.

.9 Countertops

- .1 General: Countertops containing sinks shall be constructed with cores of exterior grade plywood. Countertops not containing sinks may be constructed with MDF cores.
- .2 Edging: Provide 6 mm thick solid surface edging for countertops in public realm. Acceptable products: Corian by Dupont or approved alternative.

.10 Countertops – Wet Laboratories

- .1 Countertops in Wet Labs:
 - .1 Core: Exterior grade plywood.
 - .2 Face: Solid Surface material, acid resistant where indicated.
 - .3 Edging: Solid Surface material to match face.

.11 Finishing

- .1 Shop-finish products to greatest extent possible.
- .2 For wood materials requiring ULC fire rating or preservatives for concealed wood blocking, shop apply finish by brush.
 - .1 Provide ULC approved identification on fire retardant treated material.
 - .2 Deliver fire retardant treated materials cut to required sizes. Minimize field cutting.

*** END OF ARCHITECTURAL WOODWORK SECTION ***