

**Part 1 General****1.1 REFERENCES**

- .1 American Society for Testing and Materials International (ASTM).
  - .1 ASTM A653/A653M-11. Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- .2 Canadian Standards Association International (CSA).
  - .1 CSA-B111-1974(R2003). Wire Nails, Spikes and Staples.
  - .2 CAN/CSA-G164-M92(R2003). Hot Dip Galvanizing of Irregularly Shaped Articles.
  - .3 CAN/CSA-O80 SERIES-08 (R2012) CONSOLIDATED. Wood Preservation.
  - .4 CSA-O112.9-10. Evaluation of adhesives for structural wood products (exterior exposure).
  - .5 CSA-O121-08 (R2013). Douglas Fir Plywood.
  - .6 CSA-O141-05 (R2009). Softwood Lumber.
- .3 Forest Stewardship Council (FSC).
  - .1 FSC Accredited Certified Bodies.
- .4 National Lumber Grades Authority (NLGA).
  - .1 Standard Grading Rules for Canadian Lumber. December 2010 Edition.

**1.2 QUALITY ASSURANCE**

- .1 Lumber identification: by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.
- .2 Plywood: by grade mark in accordance with applicable CSA standards.
- .3 Provide Forestry Stewardship Council (FSC) certified lumber and panel materials. Submit FSC certification and documentation to Departmental Representative.

**1.3 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate wood waste in accordance with the Waste Management Plan and place in designated areas in the following categories for recycling: Solid wood, treated, painted, or contaminated wood.
- .2 Set aside damaged wood and dimensional lumber off-cuts for approved alternative uses (e.g. bracing, blocking, cripples, bridging). Store this separated reusable wood waste convenient to cutting station and area of work.
- .3 Divert unused wood materials from landfill to recycling or reuse facility approved by Departmental Representative. Do not burn scrap at the project site.

**ROUGH CARPENTRY**

- .4 Do not dispose of unused preservative material into sewer system, into streams, lakes, onto ground or in other locations where they will pose health or environmental hazard.

**Part 2 Products****2.1 FRAMING AND STRUCTURAL MATERIAL**

- .1 Framing and board lumber: in accordance with NBC except as follows: Spruce species, minimum Construction No 1 grade. S4S, moisture content 19% (S-dry) or less in accordance with following standards:
  - .1 CSA-O141. NLGA Standard Grading Rules for Canadian Lumber.
  - .2 FSC Certified.
- .2 In-wall solid wood blocking for access devices, guard rails, hand rails, corner guards, wall bumpers and millwork and casework to be select Douglas fir species, minimum Construction No 1 grade. S4S, moisture content 19% (S-dry) or less.

**2.2 PANEL MATERIALS**

- .1 Douglas fir plywood (DFP): to CSA-O121, standard construction.

**2.3 ACCESSORIES**

- .1 Sealants: in accordance with Section 07 92 00 - Joint Sealants.
- .2 General purpose adhesive: to CSA-O112.9.
- .3 Nails, spikes and staples: to CSA-B111.
- .4 Bolts: 12.5 mm diameter unless indicated otherwise, complete with nuts and washers.
- .5 Proprietary fasteners: toggle bolts, expansion shields and lag bolts, screws and lead or inorganic fibre plugs, recommended for purpose by manufacturer.

**2.4 FASTENER FINISHES**

- .1 Galvanizing: to CAN/CSA-G164 or ASTM A653. Use hot dip galvanized fasteners for all work except where Stainless Steel components are specified.

**Part 3 Execution****3.1 INSTALLATION**

- .1 Comply with requirements of NBC, supplemented by the following paragraphs.
- .2 Install framing members true to line, levels and elevations, square and plumb. Construct continuous members from pieces of longest practical length.
- .3 Install spanning members with "crown-edge" up.

**ROUGH CARPENTRY**

- .4 Install furring and blocking as required to space-out and support casework, cabinets, wall and ceiling finishes, facings, fascia, soffit, cladding, electrical equipment mounting boards and other work as required. Align and plumb faces of furring and blocking to tolerance of 1:600.
- .5 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.

**3.2 ERECTION**

- .1 Frame, anchor, fasten, tie and brace members to provide necessary strength and rigidity.
- .2 Countersink bolts where necessary to provide clearance for other work.

**3.3 ELECTRICAL PANEL BACKBOARDS**

- .1 Electrical equipment backboards: 19 mm thick DFP G1S plywood. 19 x 38 mm furring around spacing, perimeter and at maximum 300 mm intermediate. Apply two coats of fire retardant paint as per 09 91 23 – Painting.

**END OF SECTION**

**Part 1 General****1.1 RELATED REQUIREMENTS**

- .1 Section 06 40 00 - Architectural Woodwork.

**1.2 REFERENCES**

- .1 American National Standards Institute (ANSI).
  - .1 ANSI A208.1-99. Particleboard.
- .2 Architectural Woodwork Manufacturers Association of Canada (AWMAC).
  - .1 AWMAC Quality Standards for Architectural Woodwork 1998.
- .3 Canadian Standards Association (CSA).
  - .1 CSA B111-74(R2003). Wire Nails, Spikes and Staples.
  - .2 CSA O115-M1982(R2001). Hardwood and Decorative Plywood.
  - .3 CSA-O121-08 (R2013). Douglas Fir Plywood.
  - .4 CAN/CSA-Z809-08 (R2013) - Sustainable forest management.
- .4 Forest Stewardship Council (FSC).
  - .1 FSC Accredited Certified Bodies.
- .5 Health Canada / Workplace Hazardous Materials Information System (WHMIS).
  - .1 Material Safety Data Sheets (MSDS).

**1.3 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Provide Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit two copies of WHMIS MSDS - Material Safety Data Sheets in accordance with Section 01 00 10 - General Instructions for adhesives, sealants and applied finishes specified here in. Indicate VOC content.
- .3 Provide Forestry Stewardship Council (FSC) certified lumber and panel materials. Submit FSC certification and documentation.
- .4 Submit samples as follows:
  - .1 Submit duplicate samples all wood components including final finish and stain samples as follows:
    - .1 Panels: 300 x 300 mm.
    - .2 Solid wood trim: 300 mm long.
    - .3 Door frames: 300 mm long.
    - .4 Other components: 300 mm long.
  - .2 Submit samples in all species and grades specified.
- .5 Submit shop drawings:

**FINISH CARPENTRY**

- .1 Indicate cross sections and dimensions of all trim components. Indicate details of construction for all profiles, jointing, fastening and other related details. Indicate all materials, sizes, thicknesses and finishes.
- .2 Indicate cross section of solid wood door frames. Indicate species, grade and finishes. Indicate where frames are to be reinforced to accommodate door hardware.
- .3 Indicate whether components are standard available stock molding profiles or whether components are custom milled items. Where components are intended to match existing profiles, provide dimensioned detail of existing products.
- .4 Indicate how hardware will be installed. Indicate recesses, dadoes or modifications required to accommodate hardware.

**1.4 DELIVERY, STORAGE, AND HANDLING**

- .1 Deliver, handle, store and protect materials in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Protect materials against dampness during and after delivery.
- .3 Store materials in ventilated areas, protected from extreme changes of temperature or humidity.

**1.5 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal, and Waste Reduction Workplan.
- .2 On site, separate wood waste in accordance with Waste Management Plan and place in designated areas for recycling.
- .3 Separate corrugated cardboard in accordance with Waste Management Plan and place in designated areas for recycling.
- .4 Fold up metal banding, flatten, and place in designated area for recycling.
- .5 Hazardous Materials:
  - .1 All hazardous materials which cannot be reused, are regarded as hazardous products and are subject to regulations for disposal. Information on these controls can be obtained from Provincial Ministries of Environment and Regional levels of Government.
  - .2 Safely store materials defined as hazardous or toxic waste, including emptied containers and application apparatus, in containers or areas designated for hazardous waste and dispose of contaminants in an approved legal manner.

**Part 2 Products****2.1 MATERIALS**

- .1 Provide FSC certified products for all wood components.

**FINISH CARPENTRY****2.2 LUMBER MATERIAL**

- .1 Hardwood lumber: Red oak. AWMAC premium grade. Solid S4S. Select, clear grade, rift sawn, selected for uniform colour and grain match. Select from premium grades with grain patterns to similar to the existing door/sidelight/frame unit. Moisture content 6-8% or less.

**2.3 PANEL MATERIAL**

- .1 Douglas fir plywood (DFP): to CSA O121. G2S, thicknesses and as indicated.
- .2 Particleboard: to ANSI A208.1. Industrial grade. Density 769 kg/cubic m. Thickness as indicated.
- .3 Hardwood plywood: thickness as indicated in the drawings. AWMAC premium grade, red oak plywood with particle board core. Flat sliced veneer, slip matched lay-up. Premium, select grade veneers selected for appearance and grain patterns similar to existing door/sidelight/frame unit.

**2.4 DOOR FRAMES**

- .1 Fabricate solid wood door frames to sizes and profiles as indicated. Fabricate from single piece of solid, rift sawn red oak and not built up from several components or from laminated stock. Select pieces from premium stock with appearance and grain patterns similar to existing door/sidelight/frame unit. Manufacturer's proprietary frame profiles and installation details as required to achieve a fire rating to match the door.
- .2 Reinforce and rebate frames to accommodate door hardware as recommended by hardware manufacturer.

**2.5 ACCESSORIES**

- .1 Nails and staples: to CSA B111. Plain finish.
- .2 Wood screws: plain electroplated steel or stainless steel. Type and size to suit application.
- .3 Biscuits: compressed wood. Splines: solid hardwood.
- .4 Adhesive: recommended by manufacturer.
- .5 Caps and plugs: same material and grade as material being fastened. Manufacture tapered plug from same material in appropriate sizes.
- .6 Use least toxic sealants, adhesives, sealers, and finishes necessary to comply with requirements of this section.

**2.6 FABRICATION**

- .1 To AWMAC, Quality Standards for Architectural Woodwork. Custom grade.
- .2 Shop assemble panels in finished sizes as indicated and in accordance with Shop Drawings.

## FINISH CARPENTRY

**2.7 SHOP FINISHES**

- .1 Shop apply clear lacquer finishes as specified in Section 09 91 23 - Painting.
- .2 Shop apply stain finish prior to application of finish where indicated and as approved by Departmental Representative to match appearance of existing building components.

**Part 3 Execution****3.1 INSTALLATION**

- .1 Do finish carpentry to Quality Standards of the Architectural Woodwork Manufacturers Association of Canada (AWMAC), Custom Grade except where specified otherwise.
- .2 Obtain governing dimensions before fabricating all panels. Factory assemble all components complete, ready for installation. Site work limited to installation only.
- .3 Scribe and cut as required, fit to abutting walls, and surfaces, fit properly into recesses and to accommodate piping, columns, fixtures, outlets, or other projecting, intersecting or penetrating objects.
- .4 Position and install work plumb, true and square, neatly scribed to adjoining surfaces.
- .5 Form joints to conceal shrinkage.

**3.2 CONSTRUCTION**

- .1 Fastening.
  - .1 Position items of finished carpentry work accurately, level, plumb, true and fasten or anchor securely.
  - .2 Design and select fasteners to suit size and nature of components being joined. Use proprietary devices as recommended by manufacturer.
  - .3 Set finishing nails to receive filler. Where screws are used to secure members, countersink screw in round cleanly cut hole and plug with wood plug to match material being secured.
  - .4 Replace items of finish carpentry with damage to wood surfaces including hammer and other bruises.
- .2 Standing and running trim.
  - .1 Butt and cope internal joints of baseboards to make snug, tight, joint. Cut right angle joints of casing and base with mitred joints.
  - .2 Fit backs of baseboards and casing snugly to wall surfaces to eliminate cracks at junction of base and casing with walls.
  - .3 Install door trim in single lengths without splicing.

**3.3 ADJUSTING AND CLEANING**

- .1 Clean all surfaces and protect from damage until final inspection.

**END OF SECTION**

**Part 1 General****1.1 RELATED REQUIREMENTS**

- .1 Section 06 47 00 - Plastic Laminate Finishing.
- .2 Section 07 92 00 – Joint Sealants.
- .3 Section 08 71 73 - Special Function Hardware.

**1.2 REFERENCES**

- .1 Architectural Woodwork Manufacturers Association of Canada (AWMAC).
  - .1 Architectural Woodwork Standards. First Edition 2009.
- .2 Canadian Standards Association (CSA).
  - .1 CSA-B111-1974(R2003). Wire Nails, Spikes and Staples.
  - .2 CSA-O121-08 (R2013). Douglas Fir Plywood.
  - .3 CAN/CSA-Z809-08 (R2013) - Sustainable forest management.
- .3 Forest Stewardship Council (FSC).
  - .1 FSC Accredited Certified Bodies.

**1.3 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Provide Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Provide Forestry Stewardship Council (FSC) certified lumber and panel materials. Submit FSC certification and documentation.
- .3 Submit shop drawings. Indicate details of construction, profiles, jointing, fastening and other related details. Provide details as follows: profiles full size, details ½ full size. Indicate all materials, thicknesses, finishes and hardware. Indicate typical and special installation conditions, all connections, attachments, anchorage and location of exposed fastenings. Indicate shop applied and site applied finishes for each component.
- .4 Indicate locations of service outlets in casework, typical and special installation conditions, and connections, attachments, anchorage and location of exposed fastenings.
- .5 Submit duplicate samples. Sample size 600 x 600 mm or 600 mm long unless specified otherwise. Submit duplicate samples of laminated plastic joints, edging, cutouts and postformed profiles. Submit samples of solid hardwood in specified finishes. Submit duplicate colour samples of laminated plastic for colour selection.

**ARCHITECTURAL WOODWORK****1.4 DELIVERY, STORAGE, AND HANDLING**

- .1 Deliver, handle, store and protect materials of this section in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Protect millwork against dampness and damage during and after delivery.
- .3 Store millwork in ventilated areas, protected from extreme changes of temperature or humidity.

**1.5 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 - Construction / Demolition Waste Management and Disposal.
- .2 Separate corrugated cardboard in accordance with Waste Management Plan and place in designated areas for recycling.
- .3 Fold up metal banding, flatten, and place in designated area for recycling.

**Part 2 Products****2.1 MATERIALS**

- .1 Provide FSC certified products for all wood components.
- .2 Hardwood lumber: moisture content 7 % or less. AWMAC premium grade.
- .3 Douglas fir plywood (DFP): to CSA-O121. G1S or G2S as indicated in the drawings. Thicknesses as indicated in the drawings.
- .4 Laminated plastic: as specified in Section 06 47 00 - Plastic Laminate Finishing.
- .5 Laminated plastic adhesive: as specified in Section 06 47 00 - Plastic Laminate Finishing.
- .6 Nails and staples: to CSA-B111.
- .7 Wood screws: stainless steel, galvanized or plated steel, type and size to suit application.
- .8 Splines: compressed wood.
- .9 Sealant: as specified in Section 07 92 00 - Joint Sealants.
- .10 Continuous hinge: continuous piano hinge, chrome finish.

**2.2 MANUFACTURED UNITS**

- .1 Casework: fabricate casework to AWMAC Custom Grade. Flush overlay.
  - .1 Furring, blocking, nailing strips, rough bucks and sleepers. Dimension sizes. Construction grade or better.

## ARCHITECTURAL WOODWORK

- .2 Framing: kiln dried spruce or fir. S4S, minimum 19 mm thick. Concealed locations only.
- .3 Case bodies: ends, dividers, tops and bottoms: DFP, G2S, square edges. Thickness: 19 mm or as indicated. Covered with plastic laminate both sides and all exposed edges.
- .4 Backs: DFP 12.5 mm G1S. Covered with P lam backing sheet on inside face.
- .5 Shelving: 16 mm thick DFP G2S. Covered with plastic laminate both sides and all exposed edges.
- .2 Drawers: fabricate drawers to AWMAC Custom Grade and as follows:
  - .1 Sides, backs and false front: 12.5 mm DFP, G2S, covered with plastic laminate both sides and top.
  - .2 Bottoms: 12.5 mm DFP, G1S, covered with plastic laminate.
  - .3 Fronts: 19 mm thick DFP, G2S. Covered with plastic laminate both sides and all exposed edges.
- .3 Casework doors: fabricate doors to AWMAC Custom Grade. 19 mm thick DFP, G2S. Covered with plastic laminate both sides and all exposed edges.
- .4 Counter tops: fabricate counter tops to AWMAC premium grade. Particleboard board core. Minimum 19 mm thick. Front and side edges to receive bullnosed hardwood as detailed. No backsplash. Provide countertop in one piece length per location. Cover top of countertop with specified sheet flooring. Bottom covered with P lam backing sheet.
- .5 Kick plate: 16 mm DFP, G1S, covered with plastic laminate. Fabricate in longest practical sections.
- .6 Trellis: Laminated Strand Lumber (LSL). Mixture of hardwood strands bonded together using a waterproof urea-formaldehyde free adhesive, strands oriented parallel to finished product's length. Sizes as per drawing details.

**2.3 FABRICATION**

- .1 Set nails and countersink screws. Apply plain wood filler to indentations, sand smooth and leave ready to receive finish.
- .2 Shop install cabinet hardware for doors, shelves and drawers as specified in Section 08 71 73 - Special Function Hardware.
- .3 Shelving to cabinetwork to be adjustable unless otherwise noted. Install rebated adjustable shelf straps (chrome or stainless steel finish) allowing shelf adjustment of 13mm increments maximum.
- .4 Provide cutouts for plumbing fixtures, inserts, appliances, outlets and other fixtures.
- .5 Shop assemble work for delivery to site in size easily handled and to ensure passage through building openings.
- .6 Obtain governing dimensions before fabricating items which are to accommodate or abut appliances, equipment and other materials.

**ARCHITECTURAL WOODWORK**

- .7 Ensure adjacent parts of continuous laminate work match in colour and pattern.
- .8 Veneer laminated plastic to core material in accordance with adhesive manufacturer's instructions and as specified in Section 06 47 00 - Plastic Laminate Finishing. Ensure core and laminate profiles coincide to provide continuous support and bond over entire surface. Use continuous lengths up to 3000 mm. Keep joints 600 mm from sink cutouts. Apply laminated plastic backing sheet where indicated.

**Part 3 Execution****3.1 INSTALLATION**

- .1 Do architectural woodwork to Architectural Woodwork Standards (AWMAC), except where specified otherwise.
- .2 Install prefinished millwork at locations shown on drawings. Position accurately, level, plumb straight.
- .3 Fasten and anchor millwork securely. Provide heavy duty fixture attachments for wall mounted cabinets.
- .4 Install Plam or solid surface counter tops at locations shown on drawings. Use heavy duty fixture attachments for counter tops. Use draw bolts in counter top joints.
- .5 Scribe and cut as required to fit abutting walls and to fit properly into recesses and to accommodate piping, columns, fixtures, outlets or other projecting, intersecting or penetrating objects.
- .6 At junction of counter and adjacent wall finish, apply small bead of sealant.
- .7 Apply water resistant building paper over wood framing members in contact with masonry or cementitious construction.
- .8 Fit hardware accurately and securely as per manufacturer's written instructions.
- .9 Shop adhere laminated plastic over entire surface. Make corners with hairline joints. Use full sized laminate sheets. Make joints where indicated or approved. Slightly bevel arises. For site application, offset joints in plastic laminate facing from core joints.
- .10 Support LSL trellis using suspended stainless steel rods and stainless steel pins imbedded in slab.

**3.2 CLEANING**

- .1 Clean millwork and cabinet work inside cupboards and drawers and outside surfaces.
- .2 Remove excess glue from surfaces.

**3.3 PROTECTION**

- .1 Protect millwork and cabinet work from damage until final inspection.

**END OF SECTION**

**Part 1 General****1.1 RELATED REQUIREMENTS**

- .1 Section 06 40 00 - Architectural Woodwork.
- .2 Section 07 92 00 - Joint Sealants.

**1.2 REFERENCES**

- .1 Canadian General Standards Board (CGSB).
  - .1 CAN/CGSB-71.20-M88. Adhesive, Contact, Brushable.
- .2 National Electrical Manufacturers Association (NEMA).
  - .1 ANSI/NEMA LD 3-2005. High-Pressure Decorative Laminates.
  - .2 ANSI/NEMA LD 3-2005. High-Pressure Decorative Laminates - Annex A - Application, Fabrication and Installation.
  - .3 ANSI/NEMA LD 3-2005. High-Pressure Decorative Laminates - Annex B - Care and Cleaning of Laminates.

**1.3 ACTION AND INFORMATIONAL SUBMITTALS**

- .1 Provide Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit manufacturer's printed product literature, specifications and data sheet.
- .3 Submit two copies of WHMIS MSDS - Material Safety Data Sheets. Indicate VOC's for adhesives, solvents and cleaners.
- .4 Submit samples. Submit duplicate samples of joints, edging, cutouts and postformed profiles. Submit 3 - 300 x 300 mm sized samples of colour and finish texture specified.
- .5 Submit manufacturer's installation instructions.
- .6 Provide maintenance data for laminate work for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

**1.4 QUALITY ASSURANCE**

- .1 Submit certified test reports showing compliance with specified performance characteristics and physical properties.
- .2 Submit product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
- .3 Conduct pre-installation meeting to verify project requirements, manufacturer's installation instructions and manufacturer's warranty requirements.

**1.5 DELIVERY, STORAGE, AND HANDLING**

- .1 Deliver, handle, store and protect materials of this section in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Maintain relative humidity between 25 and 60% at 22 degrees C during storage and installation. Protect millwork against dampness and damage during and after delivery.

## PLASTIC LAMINATE FINISHING

Store millwork in ventilated areas, protected from extreme changes of temperature or humidity.

**Part 2 Products****2.1 MATERIALS**

- .1 Plastic laminates to be selected from multiple manufacturers. Departmental Representative to select from full, premium, and extended range of products including premium classified products
- .2 Laminated plastic for flatwork: to ANSI/NEMA LD 3.
  - .1 Type: General purpose.
  - .2 Grade: HGS.
  - .3 Size: 1.27 mm thick.
  - .4 Colour: multilayered.
  - .5 Pattern: printed pattern.
  - .6 Finishes: satin, refined mat, travertine textured.
  - .7 Colours, selected by Departmental Representative from full, custom, and extended range of products, including premium classified products:
    - .1 F1 - Cabinetry, vertically oriented pattern with refined matt finish.
    - .2 F2 - Countertop, high pressure laminate with travertine textured finish, radius square edge.
    - .3 F3 – Corner Shelf, high pressure laminate with maple wood grained finish.
- .3 Laminated plastic backing sheet: Grade BK, Type HD not less than 0.5mm thick or same thickness and colour as face laminate.
- .4 Plywood core: DFP G1S or G2S as specified in Section 06 40 00 - Architectural Woodwork. Minimum thickness as specified in Section 06 40 00 - Architectural Woodwork.
- .5 Laminated plastic adhesive: contact adhesive to CAN/CGSB-71.20.
- .6 Sealants: mildew resistant sealant as specified in Section 07 92 00 - Joint Sealants.
- .7 Draw bolts and splines: as recommended by fabricator.

**2.2 FABRICATION**

- .1 Comply with ANSI/NEMA LD 3, Annex A.
- .2 Obtain governing dimensions before fabricating items which are to accommodate or abut appliances, equipment and other materials.
- .3 Ensure adjacent parts of continuous laminate work match in colour and pattern.
- .4 Veneer laminated plastic to core material in accordance with adhesive manufacturer's instructions. Ensure core and laminate profiles coincide to provide continuous support and bond over entire surface. Use continuous lengths up to 3000 mm. Keep joints 600 mm from sink cutouts.

**PLASTIC LAMINATE FINISHING**

- .5 Form shaped profiles and bends as indicated, using postforming grade laminate to laminate manufacturer's instructions.
- .6 Use straight self-edging laminate strip for flatwork to cover exposed edge of core material. Chamfer exposed edges uniformly at approximately 20 degrees. Do not mitre laminate edges.
- .7 Apply laminate backing sheet to reverse side of core of plastic laminate work.
- .8 Apply laminated plastic liner sheet to interior of cabinetry.
- .9 Install sheet flooring countertop finish and solid wood nosing to countertop.

**Part 3 Execution****3.1 MANUFACTURER'S INSTRUCTIONS**

- .1 Comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

**3.2 INSTALLATION**

- .1 Install work plumb, true and square, neatly scribed to adjoining surfaces.
- .2 Make allowances around perimeter where fixed objects pass through or project into laminated plastic work to permit normal movement without restriction.
- .3 Use draw bolts and splines in countertop joints. Maximum spacing 450 mm on centre, 75 mm from edge. Make flush hairline joints.
- .4 Provide cutouts for plumbing fixtures, inserts, grilles, appliances, outlet boxes and other penetrations. Round internal corners, chamfer edges and seal exposed core.
- .5 At junction of laminated plastic counter back splash and adjacent wall finish, apply small bead of sealant.
- .6 Site apply laminated plastic to units as indicated. Adhere laminated plastic over entire surface. Make corners with hairline joints. Use full sized laminate sheets. Make joints only where indicated and approved. Slightly bevel arises.
- .7 For site application, offset joints in plastic laminate facing from joints in core.
- .8 Scribe and cut as required to fit abutting walls and to fit properly into recesses and to accommodate piping, columns, fixtures, outlets or other projecting, intersecting or penetrating objects.

**3.3 PROTECTION**

- .1 Cover finished laminated plastic, wood veneered surfaces with heavy kraft paper or put in cartons during shipment. Protect installed laminated surfaces by approved means. Do not remove until immediately before final inspection.

**3.4 CLEANING**

- .1 Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .2 Perform care and cleaning with ANSI/NEMA LD 3, Annex B.

- .3 Remove traces of primer, caulking, epoxy and filler materials. Clean doors and frames.

**END OF SECTION**