

## **PART 1 - GENERAL**

### **1.1 GENERAL REQUIREMENTS**

- .1 Comply with requirements of Division 1.

### **1.2 RELATED WORK**

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

### **1.3 REFERENCES**

- .1 ANSI/NEMA LD 3-2005, High Pressure Decorative Laminates (HDL).
- .2 CAN3-A172-M79(R1996) High Pressure, Paper Base, Decorative Laminates.
- .3 CSA O112-M Series 1997 (R2006), Standards for Wood Adhesives.
- .4 CAN/CGSB-71.20-M88 Adhesive, Contact Brushable.
- .5 ANSI/NPA A208.1-2009, Particle Board.
- .6 CCD-044, Adhesives-Environmental Choice Program. (ECP).

### **1.4 SUBMITTALS**

- .1 Product Data:
  - .1 Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Samples:
  - .1 Submit samples in accordance with Section 01 33 00 – Submittal Procedures.
  - .2 Submit duplicate samples of colours and PVC edging.
- .3 Manufacturer's Instructions:
  - .1 Submit manufacturer's installation instructions.
- .4 Closeout Submittals:
  - .1 Provide maintenance data for laminate work for incorporation into manual specified in Section 01 78 00 – Closeout Submittals.

### **1.5 DELIVERY, STORAGE AND PROTECTION**

- .1 Deliver, handle, store and protect materials of this section in accordance with Section 01 61 00 – Common Product Requirements.
- .2 Cover finished laminated plastic 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 Do not store or install materials in areas where relative humidity is less than 25% or greater than 60% at 22 °C.

## **1.6 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 – Construction/Demolition Waste Management and Disposal.
- .2 Remove from site and dispose of all packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard and packaging material in appropriate on site bins for recycling in accordance with Waste Management Plan.

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS**

- .1 Grades for plastic laminate are based on ANSI / NEMA Standards as recommended by AWMAC.
- .2 Laminated plastic as manufactured by:
  - .1 Nevamar
  - .2 Arborite
  - .3 Formica
  - .4 Pionite
  - .5 or approved equal.
  - .6 Colours: up to two (2) colours, of solid or printed patterns, selected by Departmental Representative, from manufacturer's full range with matt or textured finish, at a later date.
- .3 Laminated plastic for horizontal flatwork - self-edged counters and shelving: to meet or exceed ANSI / NEMA "HGS" General Purpose Grade horizontal; 1.27 mm thickness range, solid or printed pattern colour range with matt finish.
- .4 Laminated plastic for vertical flatwork - all vertical surfaces, doors, exterior and interior sides of casework, drawer fronts: to meet or exceed ANSI / NEMA "VGS" General Purpose Grade vertical; 0.76 mm thick, solid or printed pattern colour range with matt finish.
- .5 Laminated plastic backing sheet: supplied by same manufacturer as facing sheet; to meet or exceed ANSI / NEMA "BKL" grade, not less than 0.5 mm thick and same colour as face laminate.
- .6 Laminated plastic cabinet liner sheet: inside surfaces of drawers; supplied by same manufacturer as facing sheet, to meet or exceed ANSI / NEMA "CLS" grade, not less than 0.5 mm thick, white colour.

- .7 Plywood core: as specified in Section 06 40 00 – Architectural Woodwork.
- .8 Particleboard core: as specified in Section 06 40 00 – Architectural Woodwork.
- .9 Adhesive: low VOC, urea-formaldehyde free type to CSA O112.
- .10 Sealer: water resistant sealer or glue acceptable to laminate manufacturer.
- .11 Sealant: in accordance with Section 07 92 00 – Joint Sealing, colour selected by Departmental Representative.
- .12 Draw bolts and splines: as recommended by fabricator.

## **2.2 EDGE BANDING**

- .1 Edge banding: PVC edge banding, 3 mm. thickness; width to suit core material; edging material to correspond with plastic laminate type; up to two colours as selected by Departmental Representative.

## **2.3 SHOP FABRICATION**

- .1 Comply with CAN3-A172, Appendix '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 cutouts.
- .5 Form shaped profiles and bends as indicated, using laminate to manufacturer's instructions.
- .6 Use 3 mm. thick PVC edging width to suit core material, for flatwork to cover exposed edge of core material.
- .7 Apply laminate backing sheet to reverse side of core of plastic laminate work.
- .8 Apply laminate plastic liner sheet to interior of cabinetry where indicated.
- .9 All shelving edges (visible and non-visible) to be PVC edging, 3 mm thickness; width to suit core material.

## **PART 3 - EXECUTION**

### **3.1 MANUFACTURER'S INSTRUCTION**

- .1 Compliance: 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 Provide cutouts for inserts, grilles, appliances, outlets boxes and other penetrations. Round internal corners, chamfer edges and seal exposed core.

### **3.3 PROTECTION**

- .1 Cover finished plastic laminate veneered surfaces with heavy kraft paper or put in cartons during shipment.
- .2 Protect installed laminate surface by approved means. Do not remove protection until immediately before Final Inspection.

### **3.4 CLEANING**

- .1 Proceed in accordance with Section 01 74 11 – Cleaning.
- .2 Perform cleaning after installation to remove construction and accumulated environmental dirt. Perform care and cleaning with NEMA LD 3, Annex B.
- .3 Remove traces of primer, caulking, epoxy and filler materials; clean doors and frames.

**END OF SECTION**