

**Part 1 General**

**1.1 RELATED REQUIREMENTS**

- .1 Section 01 45 00 – Quality Control
- .2 Section 01 65 00 – Product Delivery Requirements
- .3 Section 05 74 00 – Custom Bronze Components
- .4 Section 12 14 13 – Cut and Carved Stone Components
- .5 Section 12 56 85 – Assembly of Altar Structures

**1.2 REFERENCES**

- .1 Reference Standards.
  - .1 Canadian General Standards Board (CGSB).  
CAN/CGSB 12.1-M90, Tempered or Laminated Safety Glass.
  - .2 Health Canada/Workplace Hazardous Materials Information System (WHMIS).  
Material Safety Data Sheets (MSDS).

**1.3 DESIGNATED FABRICATOR**

- .1 Hire the services of Zone Display Cases to do the work of this Section.
  - .1 Zone Display Cases, 660 de l'Argon, Québec, QC, G2N 2G5.

**1.4 ADMINISTRATIVE REQUIREMENTS**

- .1 Coordination.
  - .1 Coordinate the fabrication of the metal-framed display cases with the work to produce custom bronze and hand carved stone components.
  - .2 Coordinate the Work of this section with the stone cutter and Departmental Representative prior to cutting out the stone table top. Co-ordinate work to size the custom metal-framed glass display cases with stone cutter to ensure accurate fit in the cut out stone top.
  - .3 Co-ordinate detail work on the display case with Departmental Representative.
  - .4 Co-ordinate work to participate in Shop Assembly of components and on site assembly.
- .2 Pre-Installation Meetings.
  - .1 Participate in pre-installation meeting with component fabricators and Departmental Representative.
- .3 Scheduling.
  - .1 Allow scheduled time for production of custom metal-framed glass display cases.
  - .2 Coordinate work of this Section with schedule of delivery of completed components and with Departmental Representative.
  - .3 Reference Sections:
    - .1 Section 01 65 00 – Product Delivery Requirements.
    - .2 Section 12 56 85 – Assembly of Altar Structure.

## **1.5 SUBMITTALS**

- .1 Product Data.
  - .1 Submit product data in accordance with Section 01 00 10 – General Instructions.
- .2 Shop Drawings.
  - .1 Submit shop drawings in accordance with Section 01 00 10 – General Instructions.
  - .2 Indicate materials, core thicknesses, finishes, connections, joints, method of construction, number of anchors, supports, reinforcement, details, and accessories.
- .3 Samples.
  - .1 Submit samples in accordance with Section 01 00 10 – General Instructions.
  - .2 Submit one sample for each type of material used.
  - .3 Submit one sample of powder-coated bronze colour of aluminum frames.
- .4 Submit schedule of shop fabrication inspection and testing.
  - .1 Coordinate with stone carver and Departmental Representative.
- .5 Record Documentation.
  - .1 Submit record documentation in accordance with Section 01 00 10 – General Instructions.
- .6 Operational and Maintenance Manuals.
  - .1 Submit operation and maintenance manuals for display cases.

## **1.6 WARRANTY**

- .1 For work of this Section 10 12 00 – Custom Metal-Framed Glass Display Cases, the 12-month warranty period is extended to 24 months.

## **1.7 QUALITY CONTROL**

- .1 Reference Sections:
  - .1 Section 01 45 00 – Quality Control.

## **Part 2 Products**

### **2.1 GOVERNMENT OWNED MATERIALS**

- .1 Book mounts for interior of metal framed glass display cases.

### **2.2 FABRICATOR**

- .1 Zone Display Cases, 660 de l'Argon, Québec, QC, G2N 2G5.

### **2.3 DESIGN CRITERIA**

- .1 Shoulders of display cases to:
  - .1 Rest on edge of cut opening in carved stone altar top.
  - .2 Support weight of display case, book mount and book.

- .2 Glass bonnets to open automatically with light touch to sufficient degree to allow turning of a page in the Books of Remembrance without obstruction.
- .3 Key glass bonnets alike so that one ceremonial key can be used.
- .4 Fabricate components square and true to suit application.

## **2.4 MATERIALS**

- .1 Component Parts:
  - .1 Sourced for maintenance and availability in Canada.
  - .2 Museum quality.
- .2 Glass Bonnets: 8 mm thick, laminated glass in accordance with CAN/CGSB 12.1, low-iron content, anti-reflective, UV-filtering.
  - .1 Acceptable materials:
    - .1 GroGlass.
    - .2 Tru-vue.
    - .3 Alternative materials: Approved by addendum in accordance with General Instructions to Bidders.
- .3 Metal Bases: black powder-coated steel.
- .4 Metal Molding frame around Glass Bonnet: bronze powder-coated extruded aluminum.
- .5 Gaskets: inert, sulphur-free.
- .6 Adhesive: UV glue to suit application.

## **2.5 HARDWARE**

- .1 Assisted Opening Devices: stainless steel compressed gas cylinder struts.
- .2 Hinges: stainless steel.
- .3 Security Locks with non-reproducible ceremonial key, keyed alike.
  - .1 Acceptable materials:
    - .1 Abloy locks.
    - .2 Medeco locks.
    - .3 Alternative materials: Approved by addendum in accordance with General Instructions to Bidders.

## **Part 3 Execution**

### **3.1 SHOP FABRICATION**

- .1 Fabricate display cases in accordance with dimensions shown on Contract Drawings.
  - .1 Frameless glass bonnets, UV glued.
  - .2 Transparent glass seams.
  - .3 Form airtight seal between glass bonnet frame and base.
  - .4 Ensure detailed requirements for key and case lifting mechanism are met.
- .2 Shop Finishes.
  - .1 Powder-coat black the steel bases.

- .2 Powder-coat bronze the extruded aluminum frames.
  - .1 Colour to compliment colour of bronze altar bases.

### **3.2 PACKAGING, HANDLING AND TRANSPORT**

- .1 Brace, secure, protect, package and transport metal framed glass display cases to maintain squareness and rigidity during shipment and installation in accordance with Section 01 65 00 – Product Delivery Requirements.

**END OF SECTION**