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**Part 1            General****1.1            RELATED SECTIONS**

- .1      Division 01-General Requirements.
- .2      Section 08 11 00 - Metal Doors and Frames.

**1.2            REFERENCES**

- .1      American Society for Testing and Materials International (ASTM).
  - .1      ASTM C542-94(1999), Specification for Lock-Strip Gaskets.
  - .2      ASTM D790-02, Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
  - .3      ASTM D2240-02b, Test Method for Rubber Property - Durometer Hardness.
  - .4      ASTM E84-01, Test Method for Surface Burning Characteristics of Building Materials.
  - .5      ASTM F1233-98, Test Method for Security Glazing Materials and Systems.
- .2      Canadian General Standards Board (CGSB).
  - .1      CAN/CGSB-12.1-M90, Tempered or Laminated Safety Glass.
  - .2      CAN/CGSB-12.2-M91, Flat, Clear Sheet Glass.
  - .3      CAN/CGSB-12.3-M91, Flat, Clear Float Glass.
  - .4      CAN/CGSB-12.8-97, Insulating Glass Units.
  - .5      CAN/CGSB-12.10-M76, Glass, Light and Heat Reflecting.
- .3      Canadian Standards Association (CSA International).
  - .1      CSA A440.2-98, Energy Performance Evaluation of Windows and Sliding Glass Doors.
  - .2      CSA Certification Program for Windows and Doors 2000.
- .4      Environmental Choice Program (ECP).
  - .1      CCD-045-95, Sealants and Caulking.
- .5      Flat Glass Manufacturers Association (FGMA).
  - .1      FGMA Glazing Manual - 1997.
- .6      Laminators Safety Glass Association (LSGA).
  - .1      LSGA Laminated Glass Design Guide 2000.

### 1.3 SYSTEM DESCRIPTION

- .1 Performance Requirements:
  - .1 Provide continuity of building enclosure vapour and air barrier using glass and glazing materials as follow:
    - .1 Utilize inner light of multiple light sealed units for continuity of air and vapour seal.
  - .2 Size glass to withstand wind loads, dead loads and positive and negative live loads as measured in accordance with ANSI/ASTM E330.
  - .3 Limit glass deflection to flexural limit of glass with full recovery of glazing materials.

### 1.4 SUBMITTALS

- .1 Product Data:
  - .1 Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 00 10 – General Instructions.
  - .2 Submit two copies of WHMIS MSDS - Material Safety Data Sheets in accordance with Section 01 35 29.06 – Health and Safety Requirements. Indicate VOC's:
    - .1 For glazing materials during application and curing.
- .2 Shop Drawings:
  - .1 Submit shop drawings in accordance with Section 01 00 10 – General Instructions.
- .3 Samples:
  - .1 Submit samples in accordance with Section 01 00 10 – General Instructions.
  - .2 Product Data required including MSDS, Spec Sheet, Product Label, VOC compliance, Environmental Certification if available. (materials)
- .4 Manufacturer's Instructions:
  - .1 Submit manufacturer's installation instructions.
- .5 Closeout Submittals:
  - .1 Provide maintenance data including cleaning instructions for incorporation into manual specified in Section 01 00 10 – General Instructions.

### 1.5 QUALITY ASSURANCE

- .1 Test Reports: certified test reports showing compliance with specified performance characteristics and physical properties.
  - .1 Provide shop testing for glass.
- .2 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

**1.6 SITE CONDITIONS**

- .1 Environmental Requirements:
  - .1 Install glazing when ambient temperature is 10 degrees C minimum. Maintain ventilated environment for 24 hours after application.
  - .2 Maintain minimum ambient temperature before, during and 24 hours after installation of glazing compounds.

**1.7 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate and recycle waste materials in accordance with Section 01 00 10 – General Instructions.
- .2 Divert metal cut-offs from landfill by disposal into on-site metal recycling bin.
- .3 Divert uninstalled materials for reuse at nearest used building materials facility or similar type facility.
- .4 Divert unused caulking and sealant materials from landfill through disposal at special wastes depot.
- .5 Unused or damaged glazing materials are not recyclable and must not be diverted to municipal recycling programs.
- .6 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .7 Place corrugated cardboard, polystyrene, plastic packaging material in appropriate on-site bin for recycling in accordance with site waste management program.

**Part 2 Products****2.1 MATERIALS: FLAT GLASS**

- .1 Georgian Wired Glass-to CAN/CGSB-12.11-6mm thick
  - .1 Type 1-Polished both sides (transparent)
  - .2 Wire mesh styles 1-Square Pattern
  - .3 As required to maintain Fire Protection Rating.

**2.2 MATERIALS**

- .1 Sealant: as noted by manufacturer. VOC level maximum 250 g/L

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**2.3 ACCESSORIES**

- .1 Setting blocks: Metal glass stop provided by door/frame supplier and integral to the frame/door. 19mm x 19mm maximum with tamper proof screws.

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

- .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 EXAMINATION**

- .1 Verify that openings for glazing are correctly sized and within tolerance.
- .2 Verify that surfaces of glazing channels or recesses are clean, free of obstructions, and ready to receive glazing.

**3.3 GLAZING**

- .1 Glazing in fire rated partitions- Georgian Wired Glass to maintain required fire resistance ratings.

**3.4 PREPARATION**

- .1 Clean contact surfaces with solvent and wipe dry.
- .2 Seal porous glazing channels or recesses with substrate compatible primer or sealer.
- .3 Prime surfaces scheduled to receive sealant.

**3.5 INSTALLATION: DRY METHOD**

- .1 Install glazing unit in opening provided with glass stops; trim edge with sealant for neat and clean finished appearance.

**3.6 CLEANING**

- .1 Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .2 Remove traces of primer, caulking.
- .3 Remove glazing materials from finish surfaces.
- .4 Remove labels after work is complete.
- .5 Clean glass and mirrors using approved non-abrasive cleaner in accordance with manufacture's instructions.

- .6      Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

**3.7                    PROTECTION OF FINISHED WORK**

- .1      After installation, mark light with an "X" by using removable plastic tape or paste.

**END OF SECTION**