

## **PART 1 – GENERAL**

- 1.1**  
**Range of works**
- Non-exhaustive list of works in this section:
1. Provide glass panels for interior glass partitions as well as glazed doors.
- 1.2**  
**Related works**
1. Joint sealing .....Section 07 92 10E
  2. Steel doors and frames .....Section 08 11 14F
  3. Others, see drawings.....Section 08 14 10E
- 1.3**  
**Reference standards**
- Non-exhaustive list of applicable reference standards for this section:
1. Aluminum Association (AA), Designation System for Aluminum Finishes
  2. Canadian General Standards Board (CGSB)
  3. Canadian Standards Association (CSA)
  4. CSA-A440-/A440.1, A440, Windows / Special Publication A440.1, User Selection Guide to CSA Standard A440, Windows.
- 1.4**  
**Data sheets and samples**
- .1 Submit data sheets as per the prescriptions of section 01 33 00E – Submittal procedures.
  - .2 Submit required samples as per section 01 33 00E – Submittal procedures.
  - .3 Submit two (2) samples measuring 150 x 150 mm of the products listed below.
- 1.5**  
**Test reports**
- .1 Submit reports from tests performed by an independent, approved laboratory, certifying that the data conform to specifications.
- 1.6**  
**Scheduling**
1. **Work carried out in two phases, see drawings limits.**
  2. **Scheduling, see section 01 32 18E** and directive Ministerial representative.
  3. The place of work is within an occupied building.
- 1.7**  
**Guarantee**
1. Provide a certificate of guarantee, signed and issued on behalf of the Ministerial representative, stating that all the works in this section are warranted against defects for a period of five (5) years from the date of signature of the certificate of provisional acceptance work. Comply with section 01 78 00E.

## **PART 2 – PRODUCTS**

- 2.1**  
**Materials**
- .1 Materials: as per CSA-A440/A440.1 standard and the following prescriptions.
  - .2 Sheet glass: as per CAN/CGSB-12.2 standard, thickness based on assembly.
  - .3 Tempered safety glass, as per CAN/CGSB-12.1-M90 standard, type 2, class B, clear, 6-mm (1/4") thick.

- .4 Glass thickness must conform to CAN/CGSB-12.20 standard for specified design pressures. The pane of glass must be free of any defect that could alter its mechanical resistance. The following conditions shall be considered unacceptable:
  - .1 Notches in the shape of a "V" and/or grinding of edges.
  - .2 Shark teeth whose height exceeds half the thickness of the glass.
  - .3 Height of Wallner lines (serration hackle) exceeds a quarter of the thickness of the glass, or presence of flakes in the pane of glass.
  - .4 Deviations in the straightness of edges exceeding 1/8 of the thickness of the glass.
  - .5 Bevel rips whose spacing exceeds 1/4 of the thickness of the glass.
  - .6 Surface flakes whose length and/or width exceeds 6 mm.

## 2.2 Glazing – interior glass

- .1 **V1 = Clear glass:** polished or float glass, as per CAN/CGSB-12.3, quality "glazing", thickness as indicated without being less than 6mm.
- .2 **V2 = Security glass:** as per CAN/CGSB-12.1 standard, transparent, 6-mm thick. Type 2: tempered.
- .3 **V3 = Wired glass:** as per CAN/CGSB-12.11 standard, 6-mm thick.
  - .1 Type: 1, polished on both sides (transparent).
  - .2 Type of wire: 3, square mesh.
- .4 Glazing sealing strips must be composed of materials that are compatible with aluminum or steel and with the sealants and sealing materials used in the composite structure, with which they will be in direct contact.

## 2.3 Accessories

- 1. **Setting block:** neoprene, 80 to 90 Shore A hardness, measured with a durometer as per ASTM D2240 standard, adapted to the installation of the glass panels as well as the weight and dimensions of the glass and at least 100 mm in length x 6 mm thick, installed a minimum of 150mm from the corner of the sealed unit.
- 2. **Locating blocks:** neoprene, 50 to 60 Shore A hardness, measured with a durometer as per ASTM D2240 standard, self-adhesive on one face, 75 mm in length over half the height of the glass bead and the appropriate thickness of the installed glazing.
- 3. **Self-adhesive glazing strip:**
  - 1. Pre-moulded butyl compound with integrated spacer, resilient and tube-shaped, 10 to 15 Shore A hardness measured with a durometer as per ASTM D2240 standard, rolled on anti-adhesive coated paper, 12 mm x 3 mm, black colour.
  - 2. Polyvinyl-chloride foam with closed cells, rolled on anti-adhesive coated paper, covered with adhesive on both faces, with a maximum water absorption capacity by volume of 2%, allowing compression of 25%, ensuring air tightness and vapour tightness.
  - 3. All rolled glass must be perfectly sealed and adherent to the frame around the perimeter of the glass. Use a preformed adhesive tape like Polyshim.

4. **Glazier's points and spring pliers:** resistant to corrosion, standard make.
5. **Extruded joints with retaining flaps:** black neoprene as per ASTM C542 standard, type U for cavities, glass-bead type for built-in reglets. The joint of the supporting cross beam must have an interior channel and holes for drainage. Injection-moulded single-piece angle joints, hot welded to the main joint.
6. **Glass mirror fastening accessories:** continuous stainless steel ties on the bottom and the top.
7. **Sealing primers and cleaning products:** as per the glass manufacturer's specifications.
8. **Sealing strips:** interior and exterior, as per the window manufacturer's standards.

### PART 3 – WORK

#### 3.1 Quality of work

1. Install windows as per CSA-A440/A440.1 and 4-07 standards.
2. Remove protective coatings, clean contact surfaces using a solvent, and dry.
3. Apply a coat of sealing primer on contact surfaces.
4. Place setting blocks as per the manufacturer's instructions.
5. Put the glass in place, press down on the setting blocks and ensure perfect adherence around the entire perimeter.
6. Leave a space of at least 3 mm (1/8") around the edges.
7. Insert locating blocks so as to properly centre the glass in the frame. Place the blocks at 600 mm (24") intervals and maintain at 6 mm (1/4") below the sight line.
8. Install windows and align the faces in a single plane for each wall section; set up windows and materials square and plumb, and properly anchored to maintain their position permanently when subjected to normal temperature fluctuations and expected wind loads.

#### 3.2 Interior glazing

1. Assembly with rabbet – self-adhesive tape
  - 1.1 Cut the self-adhesive tape to the appropriate length and place it on the permanent glass beads, surpassing them by 1.6 mm (1/16") above the sight line.
  - 1.2 Place the self-adhesive tape around the free perimeter of the glass as indicated above.
2. Cut the adhesive tape to the appropriate length and press it against the permanent glass beads, extending up to 1.6 mm above the sight line.
3. Place the setting blocks at intervals corresponding to a third of the width of the glass, so that the end blocks are no more than 150 mm from the corners of the glass.
4. Place the glass on the setting blocks and press it against the adhesive tape so as to obtain perfect surface contact around the entire perimeter.

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5. Place adhesive tape around the perimeter of the other face of the glass as already described.
6. Lay out the detachable glass beads without moving the adhesive tape and exert pressure on the tape so as to obtain perfect surface contact.
7. Cut excess tape with an appropriate knife.

### 3.3 Cleaning

1. Immediately clean finished surfaces by removing compound smudges and drops of sealing product. Once the task is completed, remove labels and clean again.
2. Once the installation is completed, proceed with cleaning the site in order to remove accumulated dirt and debris caused by the construction work and the environment.
3. Remove all traces of priming, caulking and sealing products.

\*\*\*\*\* END \*\*\*\*\*