

**SECTION 08810
GLASS AND GLAZING**

PART 1 - GENERAL

1.1 SUMMARY

- .1 Provide miscellaneous glass as indicated, scheduled and specified.
- .2 Provide glass in hollow metal doors, wood doors, interior windows and in glazed partitions.
- .3 Provide unframed mirrors in bathrooms.
- .4 Provide glazing materials, accessories and sealants required for a complete installation.

1.2 RELATED SECTIONS

- .1 08110 Metal Doors and Frames.
- .2 08140 Wood Doors.

1.3 REFERENCES

- .1 CAN/CGSB-12.1-M90 Tempered or Laminated Safety Glass.
- .2 CAN/CGSB-12.3-M91 Flat, Clear Sheet Glass.
- .3 CAN/CGSB-12.5-M86 Mirrors, Silvered.
- .4 CAN/CBSG 12.8-97, Insulating Glass Units.
- .5 CAN/CGSB-12.11-M90 Wired Safety Glass.

1.4 SUBMITTALS

- .1 Submit in accordance with Division 1 Submittal Procedures.
- .2 Shop Drawings:
 - .1 Provide complete shop drawings and erection drawings for work included in this section. Submit shop drawings prior to fabrication.
 - .2 Shop drawings shall indicate sizes, quantities, thicknesses, materials, glass types, glazing compounds, sealants, anchorage and fastening details, hardware, and glazing methods.
- .3 Samples: Provide 300 mm x 300 mm x thickness specified, of each product specified including glass with reflective coating for one-way mirror.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Protect glass and associated aluminum during fabrication, shipping, storage, and erection.
- .2 Work which is scratched, bent, broken or otherwise damaged, shall be replaced by this Subcontractor, prior to erection, to the satisfaction of the Consultant at no cost to the Owner.

1.6 GUARANTEE

- .1 Provide manufacturer's ten (10) year guarantee against failure of seal of enclosed air.

PART 2 - PRODUCTS

2.1 GLASS

- .1 For sizes and locations of lights, refer to the Drawings and schedules.
- .2 Thickness of Glass: Conform to the B.C. Building Code wind load requirements where applicable and according to maximum glass sizes.
- .3 Float Glass: Glazing quality, conforming to CAN/CGSB-12.3-M91.

- .4 Wired Glass: Georgian Wired Type 1 (polished both sides), Style 3 (square wire mesh), conforming to CAN/CGSB-12.11-M90, 6mm thickness.
- .5 Safety (Tempered) Glass: Type 2, tempered, Class B, float or plate glass, conforming to CAN/CGSB-12.1-M90.
- .6 Laminated Glass: Type 1, Class B, conforming to CAN/CGSB-12.1-M90, with 0.030" (.4 mm) thick clear vinyl interlayer.
- .7 Sealed Glazing Units: see section 08560 Vinyl Windows

2.2 GLAZING MATERIALS

- .1 Glazing Tape: Non-shrinking butyl rubber tape with self-adhesive surface, minimum 4.8 mm thick. Approved manufacturers are Tremco 440 tape; PTI 606 or other pre-approved.
- .2 Glazing Blocks: Of neoprene (80 Durometer hardness) to give minimum 4.8 mm clearance, and as required by glass weights and light sizes.
- .3 Spacer Blocks: Of neoprene (80 Durometer hardness) or of nonferrous metal and designed to be fully bedded in glazing materials, to give minimum 4.8 mm clearance, and as required by glass weights and light sizes.
- .4 Solvent Cleaner: As required for above glazing materials and as recommended by their approved manufacturer.
- .5 Expanding Cement: For guardrails, shall be expanding glass cement, as commercially available and formulated for intended application.

2.3 MIRRORS

- .1 Mirrors shall conform to CAN/CGSB-12.5-M86 (No. 1 quality). Mirrors: 6 mm thick polished plate or float glass, backed with silvered copper paint. Edges: ground smooth and polished. Mirror dimensions as indicated.
- .2 The quality of the mirrors shall be silvering quality, guaranteed against silver spoilage for at least ten (10) years.
- .3 Unframed type fixed to walls using concealed 'H' (Vancouver) type clips, using number as recommended by the mirror manufacturer, taking into account mirror size and full mopping of adhesive. Adhesive shall be Franklin mirror adhesive.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Glazing shall be carried out in accordance with approved shop drawings.
- .2 Install glass in frames without bending or twisting, with planes true and parallel to frame faces, with thickness or bedding even and regular all around.
- .3 Metal and Wood Doors:
 - .1 Provide metal or wood glazing stops as appropriate.
 - .2 Provide metal stops at fire rated door locations.
 - .3 Install glass type as indicated or scheduled and as required by light size.
 - .4 Set glass in continuous tape, both sides, all according to manufacturer's specifications and recommendations for interior glazing.
 - .5 No movement, sagging or rattling will be allowed.
 - .6 Trim excess installation material away.
- .4 Mirrors: Install unframed mirrors in washrooms and other locations indicated or scheduled, using concealed 'H' clips and adhesive.

.5 Interior windows to be tempered glass with wood stops and trim.

.6 Provide metal frame and stops at fire rated wall locations.

3.2 PROTECTION

.1 After installation, smear glass with whiting or other suitable marking to indicate that openings have been closed in.

.2 Material for protection markings on glass, such as adhesives for the manufacturer's labels, shall be either neutral or slightly acidic. In no case shall such materials be alkaline. Staining of glass or other surfaces by alkaline materials will be cause for rejection.

.3 Protect materials during and after installation.

3.3 ADJUSTING AND CLEANING

.1 Remove surplus compounds from adjacent surfaces and glazing sections at completion of glazing of each unit.

.2 Labels: Leave no manufacturer's labels or grade marks on glass except as required by code for safety glass identification.

.3 Remove protective coverings and paper labels from exposed surfaces upon completion of the work and clean surfaces of smears, marks and discoloration.

.4 Cleaning shall be in accordance with applicable provisions of referenced standards and requirements of the aluminum manufacturer.

.5 Cleaning materials shall be acceptable to applicable aluminum and glass manufacturers. Where doubt exists, make spot tests.

.6 Immediately clean off smears and marks caused during erection of glass and glazing.

END OF SECTION