Part 1 GENERAL

1.1 GENERAL REQUIREMENTS

1. Conform to Sections of Division 1 as applicable.

1.2 REFERENCES

CAN2-12.3-M76	-	Glass, Polished Plate or Float, Flat, Clear
CAN/CGSB-19.24-M90	-	Multicomponent, Chemical-Curing Sealing Compound
CAN/CSA-A440-M90	-	Windows

1.3 SUBMITTALS

1. Shop Drawings
   Submit shop drawings in accordance with the General Conditions of the Contract. Site measure all existing window frames prior to preparation of shop drawings.
2. Samples
   Submit samples of full line of black out fabric and translucent fabric for selection by the Art Gallery of Ontario.

1.4 TEST REPORTS

Submit test report from approved independent testing laboratory, certifying installed windows comply with performance requirements of CSA A440-98 and this specification.

1.5 HARDWARE

Confirm hardware sizes and requirements prior to window frame preparation

1.5 WARRANTY

Contractor hereby warrants the wood windows against leakage, defects and malfunction under normal usage for 10 years from date of Substantial Performance. Contractor hereby warrants the removable wood frame stretched fabric shades (FS) against discolouration, defects and malfunction under normal usage for 10 years from date of Substantial Performance. Manufacturer shall provide labour, material and workmanship warranty for sealed glazing units for a period of 10 years from date of Substantial Performance.

Part 2 PRODUCTS

2.1 MATERIALS

1. Wood Members: to CSA A440-98, to manufacturer's standard for clear finish.

2. Finish, interior: Prime interior wood components for painted finish.

3. Finish, exterior: Prime exterior wood components for painted finish.

4. Glass and glazing materials:

1. Hermetically Glazed Units: to CAN/GCSB-12.8-M90, outer pane of clear glass, interior pane of clear glass with minimum ½" (12mm) air space and double sealed edges (primary to be polyisobutylene, secondary to be polysulphide); IGMAC Certified; AFG Comfort ES52 Low-E coating to no. 2 surface. Glazing thickness to manufacturer's recommendations for pane sizes and to meet window performance criteria.

5. Glazing Compound: Top quality material only.

6. Caulking Compound: In accordance with Section 07 90 00, colour as selected by the Consultant.

7. Joint Filler: Polyethylene foam rope, closed cell type, round.

8. Shade Material:

1) Blackout: Celtic Cloth Grey Back BW; 100% Polyester 9.2 oz., soft knit, non-coated blockout fabric with a bright white face & grey back, or similar white Blackout fabric. NFPA 701.
2) Translucent: Fabric to be selected from samples that are 80% opaque or greater, 100% Polyester, white, with similar appearance to the blackout shade fabric. NFPA 701.

2.2 FABRICATION

1. Fabricate storm windows as indicated, to the performance requirements of CSA A440-98, A3, B3, C3, F2, G2, S1.

2. Wood window style: Hung Storm Windows, 1 5/8" Sash

3. Weatherstripping: continuous, leaf type weatherstrip on head jamb part stop which seals against top sash; dual durometer double leaf at check rail; bulb type dual durometer weatherstripping at bottom rail.

4. Provide simulated divided lites in configurations as per drawings.

5. Provide two removable wood frame stretched fabric shades **(FS)** for each of the following windows: W27, W28, W29, (Gallery Event Space 208), W34, W35, (Gallery Event Space 208), W36, W37 (Gallery Event Space 205). W38, W39, W40, W41, (Gallery Event Space 204), S08, S09, (Stair A). Each window is to be provided with two removable wood frame stretched fabric shades; one fitted with black-out material and one fitted with translucent material.

2.3 HARDWARE

1. Stay: Two solid Oil rubbed bronze Storm Window Stays per window c/w nylon washers. Oil rubbed bronze finish. Acceptable supplier SRS Hardware.

2. Hanger / Hinge: Two solid Oil rubbed bronze Storm Window Sash Hangers per window. Acceptable supplier SRS Hardware.

3. Lock: High pressure zinc die-cast cam lock with heavy gauge steel keeper and lock base. Install on ground floor storm windows. Finish to be electrostatically

painted baked enamel (Oil rubbed bronze finish).

4. Sash lifts: Provide 2 at all existing double hung windows (lower pane). High pressure die-cast zinc with matching lock or integral to sash type. Finish to be electrostatically painted baked enamel (Oil rubbed bronze finish).

5. Ball Catches: Provide minimum of 4 Brass ball catches and strike plates per fabric window shade. Larger windows are to be provided with more than 4 catches to ensure shade alignment with frame. Oil rubbed bronze finish.

Part 3 EXECUTION

3.1 INSTALLATION

1. Install window sashes into existing wood frames and frames into existing masonry after having Section 09 91 00, Painting and Finishing, back-prime surfaces that will be concealed.

2. Pack and caulk joints.

3. Install window glass rigidly and securely to withstand wind and other loads imposed on them under normal conditions of services.

4. Window shades to be bagged in plastic when delivered to site.

End of Section 08 52 69