

Part 1 - GENERAL

Description

Work included: Furnish materials, labour and equipment for the complete installation of aluminum entrance and window frames as detailed on the drawings and specified herein.

Work not included: See Specifier list. Structural support of framing, interior building trims.

Related work specified elsewhere: See Specifier list

Quality Assurance

Drawings and specifications for work in this section are based upon DESA_____ series framing system. (select type: 45 or 2500 series). Whenever alternative products are to be considered, submit supporting technical literature and samples for review and comparison by Consultant 10 days prior to closing date.

Performance

Framing system to fully comply with **CAN/CSA-A440, Windows**.

Air infiltration shall meet the FIXED rating.

Water infiltration shall meet the required ____ (select up to B7) rating.

Intermediate mullions and horizontals shall be designed to withstand loading in accordance with the National Building Code of Canada and/or the Alberta Building Code.

Condensation resistance temperature index of the framing shall be a minimum of 55.2.

Maintenance and Guarantee

Provide maintenance and cleaning data in accordance with instructions under General Conditions.

Provide a written guarantee from substantial completion for a period of one year on the complete installation of materials and workmanship provided under this section.

Part 2 - PRODUCTS

Materials

Extrusions shall be 6063 T6 alloy and temper, formed aluminum components shall be of suitable alloy and strength to suit their purpose and function.

Fasteners shall be made of corrosion-resistant and compatible materials and of sufficient size and strength to perform their intended function.

Glazing gaskets shall be extruded black, santoprene of durometer appropriate to perform their intended function.

Insulated back pans in column or spandrel areas shall be galvanized steel of 20 gauge thickness (or as specified to suit application) and have sealed corners. Insulation shall be AF530 (48kg/m (3 lb.) density) fibreglass 51 mm (2") thick (or as specified to suit application).

Securing of insulation into back-up panel shall be by impaling insulation onto welded pins with retaining discs.

Any connections between the back-up panels and framing shall be caulked with high grade butyl sealant.

Selected framing system shall be:

-45 series 1 3/4" (45) wide thermally improved curtain wall framing for sealed unit glazing.

-2500 series 2 1/2" (64) wide thermally improved curtain wall framing for sealed unit glazing

Both systems offer vented horizontal mullion glazing pockets achieving full rain screen capabilities.

Fabrication

Construct framing from tubular extruded sections of size and shape as shown on shop drawings. All framing joints shall be accurately cut, machined and sealed to allow neat watertight connections and be designed for shear block joinery with all extrusions. Vertical expansion joints shall be sleeved and sealed at meeting mullion ends. All structural anchors shall have 3 way adjustment with welding completed after curtain wall is aligned.

All horizontal members shall be sealed to vertical members to provide individual compartments within the system in accordance with the rain screen principle and must form individually pressure equalized and sealed cells.

Finish

All exposed surfaces shall be free of scratches and defects. Aluminum extrusions shall be finished as selected by Specifier.

Standard Clear Anodizing: AA-M12C22A31

Standard Bronze Anodizing: AA-M12C22A34

Standard Black Anodizing: AA-M12C22A44

Duracron Acrylic Enamel: AAMA 2603

Duramar Fluoropolymer paint: AAMA 2605

Various Bronze Anodizing colours and Paint qualities are available upon request by the Specifier.

Installation

Framing shall be installed, glazed and adjusted accordingly to the manufacturer's instructions and approved shop drawings. All items in this section shall be set level, square and plumb and at their correct location and alignment with other work.

Protection and Cleaning

Framing shall be protected from other building materials during and after installation until acceptance by the General Contractor.

