

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 06 10 00: Rough Carpentry
- .2 Section 07 61 00: Sheet Metal Roofing
- .3 Section 07 62 00: Sheet Metal Flashings and Trim
- .4 Section 07 92 10: Sealants
- .5 Section 09 21 16: Gypsum Board Assemblies
- .6 Section 09 91 00: Painting

1.2 REFERENCES

- .1 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-12.12-M90, Plastic Safety Glazing.
 - .2 CGSB 41-GP-6M-83, Sheets, Thermosetting Polyester Plastics, Glass Fibre Reinforced.
 - .3 CAN/CGSB-63.14-M89, Plastic Skylights.
- .2 CSA International
 - .1 CSA B111-1974(R2003), Wire Nails, Spikes and Staples.
- .3 South Coast Air Quality Management District (SCAQMD), California State, Regulation XI. Source Specific Standards
 - .1 SCAQMD Rule 1168-A2005, Adhesives and Sealants Applications.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for skylight, frame, fasteners, and caulking and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
 - .1 Submit drawings stamped and signed by professional engineer registered or licensed in Province of Nova Scotia, Canada.
 - .2 Indicate size and description of components, materials, attachment devices; description of frame and finish, and construction details.
- .4 Test Reports: certified test reports showing compliance with specified performance characteristics and physical properties.
- .5 Manufacturers Reports:
 - .1 Manufacturer's Field Reports: submit manufacturer's written reports within 3 days of review, verifying compliance of Work, as described in Part 3 - FIELD QUALITY CONTROL.
- .6 Manufacturer's Instructions: submit manufacturer's installation instructions.

1.4 CLOSEOUT SUBMITTALS

- .1 Submit in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Operation and Maintenance Data: submit operation and maintenance data for skylights for incorporation into manual.

1.5 QUALITY ASSURANCE

- .1 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

1.6 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials off ground, indoors, in dry location, and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect skylights and frames from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.

1.7 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 22 – Construction / Demolition Waste Management & Disposal.
- .2 Remove from site and dispose of all packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal paper, plastic, polystyrene, corrugated cardboard and packaging material in appropriate on site bins for recycling in accordance with Waste Management Plan.
- .4 Place materials defined as hazardous or toxic in designated containers.
- .5 Fold up metal banding, flatten and place in designated area for recycling.

PART 2 - PRODUCTS

2.1 SKYLIGHT

- .1 Plastic skylights: to CAN/CGSB-63.14, Double glazed argon filled with low E coating, Class A - Aluminum frame.
- .2 Standard of acceptance:
 - .1 Artistic Skylight Domes Ltd. Model FF.
 - .2 Velux Model CM.
 - .3 Approved equal.

2.2 FRAME FINISH

- .1 Class A – Type 2 Aluminum frame: painted to match adjacent metal roof / flashings colour to match Departmental Representative's sample.

2.3 SKYLIGHT GLAZING

- .1 Plastic: to CAN/CGSB-12.12, 6 mm thick, acrylic.
- .2 Dome shape convex.
- .3 Outer layer: clear plastic.
- .4 Inner layer: white (translucent)
- .5 Sealed double acrylic dome

2.4 CEILING DOME

- .1 Dome: convex of clear plastic sized to suite existing curb (existing curb dimensions approximately 1625 mm long x 1220 mm wide) with aluminum mounting frame.

2.5 ACCESSORIES

- .1 Fasteners: nails to CSA B111 screws to manufacturer's standard cadmium plated steel galvanized steel stainless steel aluminum.
- .2 Sealants: VOC limit 250 g/L maximum to SCAQMD Rule 1168.

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Verification of Conditions: verify conditions of substrates previously installed under other Sections or Contracts are acceptable for plastic skylights installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of Departmental Representative.
 - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

3.2 INSTALLATION

- .1 Manufacturer's Instructions: comply with manufacturer's written recommendations, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.
- .2 Install skylights in accordance with CAN/CGSB-63.14M89 and supplement as follows:
 - .1 Erect components plumb, level and in proper alignment.
 - .2 Ensure continuity of envelope air barrier and vapour retarder systems.
 - .3 Secure preformed curb assembly brake formed metal curb to structure.
 - .4 Adjust and seal assembly with provision for expansion and contraction of components.
 - .5 Secure and seal frame to curb.

3.3 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
 - .2 Remove protective film from plastic surfaces.
 - .3 Clean interior and exterior plastic surfaces in accordance with manufacturers' instructions.
 - .4 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.

3.4 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by plastic skylight installation.

END OF SECTION