SECTION 08620—UNIT SKYLIGHTS

Self Flashing (SF) Low Profile (3") & High Profile (5.3")

Single Wall Self Flashing (SF) 9", 12" or Custom Curb Height

PART 1: General

1.01 Section Includes:

A. Scope:

This section includes everything necessary for and incidental to the execution and completion of the plastic domed skylight work as shown on the drawings and specified herein.

B. Work Included:

Work included, and is limited to, the skylight materials only and includes the following:

1. Single or Sealed double domed acrylic or polycarbonate unit skylights complete with extruded aluminum shape (Low & High profiles) or 9" or 12"curb (height as specified) with integral 3" counter flashing.

C. Related Work:

1. Section_____ roofing.
2. Section_____ flashing and sheet metal.
3. Section_____ final cleaning.

1.02 References:

American Society for Testing and Materials (ASTM)
Architectural Testing, Inc, York, PA—Design standards
Hurricane Test Lab Lubbock, Texas—ASTM Standards
Construction Consulting Lab 1601 Luna Road Carrollton, Texas 75006
AAMA/WDMA/CSA 101/I.S.2/A440-05 including: ASTM E283, ASTM E330, ASTM E331
ASTM E547—Standard specification for windows, doors & skylights

1.03 Performance Criteria:

A. Uniform Load:

Acrylic unit skylights must meet the requirements of uniform load test ASTM E330 that requires glazing to withstand a positive and negative test pressure of 40PSF.

B. Air Infiltration:

Acrylic and/or polycarbonate unit skylights must meet the requirements of ASTM E283 that allows a maximum air infiltration of 0.06 CFM of the total glazed surface area.

C. Water Infiltration:

Acrylic and/or polycarbonate unit skylights must meet the requirements of ASTM E547/E331 that allows for no water infiltration at a test pressure of 12PSF.

1.04 Submittals:

A. Shop Drawings:

Submit_____copies of manufacturer's standard approval sheet for architects review and approval.

1.05 Warranty:

Skylight manufacturer shall provide a written warranty against defects in materials and workmanship for a period of five (5) years from date of installation.

1.06 Manufacturer:

Low Profile, High Profile, 9" Single Wall Curb or 12" Single Wall Curb self flashing skylight(s) or other curb height as specified, shall be Model SF4, SF6, SF9 or SF12 as manufactured by Maxim Industries, Inc, Dallas, Texas, 888.222.4898 with sizes as shown on drawings.

1.07 Alternates:

Alternate manufacturers may not be considered without prior approval.

Part 2: Products:

2.01 Materials:

A. Curb and Curb Frame:

1) Low Profile 3" or High Profile 5.3" shall be fabricated from 6063-T5/T6 aluminum extrusion. Frame shall be minimum .060" thickness with .060" extruded aluminum dome retaining angle. Extruded aluminum frame shall have an integral condensation gutter and weep holes for sufficient drainage to the exterior. Frame and retaining angle corners shall be welded using the heliarc process.

2) Single Wall 9", 12" or Custom curb height frame shall be fabricated from 6063-T5/T6 aluminum extrusion and 3003 coil for curb wall. Curb frame shall be minimum .060 with .050 outer curb wall/.032 inner curb wall. Curb frame shall have an integral condensation gutter and weep holes for sufficient drainage to the exterior. All corners shall be welded using the heliarc process.

B. Acrylic and/or Polycarbonate Domes:

Acrylic and/or Polycarbonate domes shall be clear, #2447 White, #2412 Bronze, Clear/Clear, Clear/#2447 White, or #2412 Bronze/Clear. Domes shall be secured to frame with a fully welded retainer cap, minimum thickness of .060. Custom dome colors and individual dome thickness as selected by architect.

C. Aluminum Finish:

All exposed aluminum to be Mill Finish. Clear Anodized, Bronze Anodized, or Powder Coat in Custom Color as selected by architect.

D. Glazing Gaskets and Sealants:

All glazing to be separated from frame by a continuous extruded black EPDM/Santoprene glazing seat or Schnee-Morehead SM5127 vulcanizing sealant tape or as selected by manufacturer. All sealants used in the skylight assembly shall be Dow Corning 795.

E. Fasteners:

All screws and fasteners used in the factory assembly process shall be Stainless Steel. All fasteners and screws used for securing skylight to structure shall be by others.

2.02 Assembly:

All skylights shall be factory assembled and factory glazed.

Part 3 Installation:

3.01 Site Inspection:

Installer shall notify general contractor/project manager of any structural or dimensional deficiencies immediately. No work shall proceed without the correction of all deficiencies or written authorization is given to proceed.

3.02 Installation:

Skylight shall be installed in strict accordance with manufacturer's installation drawings and instructions. Any deviation shall only be through written authorization from the architect.

A. Sealants:

No sealants shall be applied to aluminum if temperature is below 32 degrees F.

3.03 Protection:

Protection of skylights during construction shall be the responsibility of the general contractor/project manager.

3.04 Cleaning:

A. General Cleaning:

Installer shall remove all protective coverings from frames and/or domes and shall leave installation free from heavy debris and/or sealant markings.

B. Final Cleaning:

Final cleaning in accordance with manufacturers recommendations shall be by the general contractor/project manager. Cleaning instructions shall be located on manufacturer's label.

End of Section