

SPECIFICATIONS 08620

COMMERCIAL / INDUSTRIAL / RESIDENTIAL SKYLIGHTS

PART I - GENERAL

1.02 Section Includes:

Summary: To Specifier : PLEASE EDIT LIST BELOW TO SUIT PROJECT REQUIREMENTS.

- A. The work of this Section includes unit skylights, fixed or operable, of the following types:
 - 1. Curb-mounted residential skylights.
 - 2. Self-flashing residential skylights.
 - 3. Curb-mounted Commercial skylights.
 - 4. Self-flashing Commercial skylights.
 - 5. Curb-mounted Industrial skylights.
 - 6. Self-flashing Industrial skylights.

- B. Related Sections: Other Specification Sections that directly relate to the work of this Section include, but are not limited to the following:
 - 1. Section 07510 - Built-Up Bituminous Roofing.
 - 2. Section 07525 - Modified Sheet Roofing.
 - 3. Section 07530 - Single Ply Membrane Roofing.
 - 4. Section 07600 - Flashing and Sheet Metal.
 - 5. Section 07610 - Sheet Metal Roofing.

1.03 References

- A. Aluminum Association (AA): Specifications for Aluminum Structures.

- B. American Architectural Manufacturers Association (AAMA): 603.8 Voluntary Performance Requirements and Test Procedures for Pigmented Organic Coatings on Extruded Aluminum. 605.2 Voluntary Specification for High Performance Organic Coatings on Architectural Extrusions and Panels. 1605.1 Voluntary Standard Uniform Load Test Procedure for Plastic Glazed Skylights by Uniform Static Air Pressure Difference. AAMA/NWDA 101/I.S.2./NASF, Standard/Specifications for Windows, Doors and Unit Skylights.

- C. American Society for Testing and Materials, ASTM: D4802 Specification for Poly (Methyl Methacrylate) Acrylic Plastic Sheet. E331 Test Method for Water Penetration of Exterior Windows, Curtain Walls and Doors by Uniform Static Air Pressure Difference.

- D. International Code Council (ICC). ICC-ES AC16 Acceptance Criteria for Plastic Glazing, ICC-ES AC17, Acceptance Criteria for Glass Glazing, ICC-ES AC79 Acceptance Criteria for Plastic Frames

- E. International Code Council (ICC). International Building Code (IBC), International Residential Code (IRC)

- E. National Roofing Contractors Association (NRCA). Roofing and Waterproofing Manual

- F. North American Fenestration Standards (NAFS). NAFS 1600/I.S.7-2000, Voluntary Specifications for Skylights.

- E. Underwriters Laboratories (UL) UL 972 Burglar Resistant Glazing.

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1.04 Performance Requirements

- A. Plastic unit skylights shall conform to recommendations of the AA Specifications for Aluminum Structures and AAMA Publications as applicable to products specified: AAMA 603.8, 605.2, 606.1, 607.1 and 1605.1, and local building codes.

1.05 Submittals

- A. Product Data: Submit manufacturer's product data, and recommendations for installation of the unit skylights and acceptable methods for the cleaning of the applicable glazing material.
- B. Shop Drawings: Shop drawings shall be submitted for approval prior to fabrication. Include details for framing members, glazing materials, sealant, fasteners, anchors, and thickness' and types of formed flashing and closures.
- C. Samples: Submit a verification sample of plastic glazing material in specified color. For aluminum, if other than mill finish required, submit a verification sample for of finish and color specified.

1.06 Quality Assurance

- A. Manufacturer: Unit skylights shall be manufactured by a firm with 5 years of practical experience in the fabrication and installation of the type of unit skylights detailed in this project. Manufacturers proposed for use, which are not named in this Section, shall submit evidence of ability to meet performance and fabrication requirements specified not less than 10 days prior to bid date.
- B. Installer: Plastic unit skylights shall be installed by workmen with a minimum of 5 years experience in installation of similar units.

1.07 Delivery, Storage and Handling

- A. Deliver materials and products in labeled packages. Store and handle in strict compliance with manufacturer's instructions and recommendations. Protect from damage from sunlight, weather, excessive temperatures and construction operations.

1.08 Project Conditions

- A. Field Measurements: When applicable, take accurate field measurements before fabrication.

1.09 Warranty

- A. Skylight Warranty: Provide written warranty by manufacturer, agreeing to repair or replace work which exhibits defects in materials or workmanship and guarantee a weather tight and leak free performance. "Defects" is defined as uncontrolled leakage of water and abnormal aging or deterioration.

1. Warranty Period: 5 years from date of skylight completion.

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PART II - PRODUCTS

2.01 Acceptable Manufacturer

- A. Provide plastic unit skylights by ACRALIGHT International Skylights, 1831 S. Ritchey St., Santa Ana CA 92705, Phone : (800) 325-4355, Fax : (714) 258-7033. www.acralight.com.
- B. Or Approved Equal
- C. Alternate manufacturers must pre-qualify to bid not less than 10 days prior to bid date.

2.02 Materials and Fabrication

- A. Curb Mounted (A-S-CM Series) or Self Flashing Skylights (A-S-SF-SERIES): Factory assembled units consisting of continuous cast acrylic dome, 0.065" extruded aluminum frame and 0.065" extruded aluminum dome retaining cap. Skylight frame shall have an integral condensate gutter with weep holes. (Self-flashing skylights will have a ____" high (Please specify 4", 9" OR 12") Self-flashing frame with .065 wall thickness, and a 3" roof flange for anchorage.)
 - 1. Type: (Model A-S-CM or A-S-SF single dome and double dome)(Model A-C-CM or A-C-SF for Circular) (Model A-P(or HR)-CM or A-P(or HR)-SF pyramid/hip ridge single dome and double dome) (Model A-S-OP for manually operable or Model A-S-EOP for electrically operable). Dome shape to be: (select one) standard dome, Sky-Arc™ dome.
 - 2. Glazing: Acrylic plastic glazing. (or Sky-Tough™ white UL 972 Listed glazing)
 - 3. Outer Dome Color: (Clear Colorless) (White No. 2447) (Bronze No. 2412) (Gray No. 2065) (Sky-Tough™ white UL 972 Listed glazing)
 - 4. Inner Dome Color: (Clear Colorless). White No. 2447) (Bronze No. 2412) (Gray No. 2065) (Sky-Tough™ white UL 972 Listed glazing)
 - 5. Water drainage Control: (Unit shall have sufficient drainage slots to carry all moisture to the outside).
 - 6. Size: (Insert inside curb dimensions here if not indicated on drawings).
 - 7. Curb: (Insert 4", 9" or 12" height) non-insulated curb, Insulated curb (IC), insulated curb with wood nailer (ICN), or double wall insulated curb (IC2)
 - 8. Finish: (Insert mill, clear anodized, dark bronze anodized, powder coat or Kynar) color to be: (Insert color)
 - 9. If required, Insert: (Thermally broken frame (TB) to minimize condensation on interior portion of frame)
- B. Curb Mounted (S-S-CM) or Self Flashing (S-S-SF) Skylights: Factory assembled capless galvanized steel Curb mounted units consisting of an acrylic dome, 0.060" galvanized steel retaining angle, .075 frame, with capless design to direct all moisture to the outside. Self-Flashing frame to be 4" high with a self-flashing base with a 3" flange for anchorage.
 - 1. Type: (Model Aluminum A-S or galvanized S-S)
 - 2. Glazing: Acrylic plastic glazing. Specify single or double dome option)
 - 3. Outer Dome Color: (Sky-Tough white UL 972 Listed glazing) (Clear Colorless) (White No. 2447) (Bronze No. 2412) (Gray No. 2064).
 - 4. (Optional) Inner Dome Color: (Clear Colorless).
 - 5. Frame Finish: Manufacturer's standard (mill finish).
 - 6. Size: (Insert inside curb height dimensions here if not indicated on drawings).

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2.03 FABRICATION

- A. Fabricate free of visual distortions and defects. Weld corners and joints
- B. All fasteners and hardware shall be corrosion resistant.
- C. Provide for removal of condensation.
- D. Provide a weather tight assembly.

2.04 DELIVERY, STORAGE AND HANDLING

- A. Handle, deliver and store in manufacturer's original packaging, follow the manufacturer's recommendations. Store in a manner as to prevent damage.
- B. Exercise caution when hoisting units to the roof so as not to scratch, bend or damage.

PART III - EXECUTION

3.01 Execution

- A. Take field dimensions and examine conditions of substrates, supports, and other conditions under which this work is to be performed and notify Contractor, in writing, of circumstances detrimental to the proper completion of the work. Do not proceed with work until unsatisfactory conditions are corrected.

3.02 Installation

- A. Strictly comply with manufacturer's instructions and recommendations. Match profiles, sizes and spacing indicated on approved shop drawings.
- B. Coordinate installation with adjacent work such as roofing, sheet metal and other work to ensure creations of a complete weatherproof assembly. Anchor work securely to supporting structure, but allow for differential and thermal movement.
- C. Isolate between aluminum and dissimilar metals with a protective coating or plastic strip to prevent electrolytic corrosion.

3.03 Adjusting, Cleaning and Protection

- A. After installation, remove shipping labels and part number markings from components. Do not remove "risk of fall" label from units.
- B. Do not store skylights with the protective covering on the domes in the sun. The plastic covering should be removed as soon as possible. Failure to do so will void the warranty.
- C. Clean all exposed surfaces including metal and glazing using non-abrasive materials and methods recommended by manufacturer of material or product being cleaned. Remove and replace work that cannot be successfully cleaned.
- D. Re-clean as necessary to prevent damage. Protect completed work from damage and deterioration and inspect immediately before final acceptance of a project.

END OF SECTION