

## SECTION 08620—UNIT SKYLIGHTS

### American Skylites, Inc.—Fall Protection Skylight

#### PART 1: General

##### 1.01 Section Includes:

###### A. Scope:

This section includes everything necessary for and incidental to the execution and completion of the double polycarbonate glazed thermal break curb mount/thermal break self flashing 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. Double domed polycarbonate unit skylight complete with polyurethane thermal break curb mount frame for installation on 9”/12” single wall or insulated wall curb supplied by American Skylites or on curbs by others.

###### C. Related Work:

1. Section \_\_\_\_\_ roofing.
2. Section \_\_\_\_\_ flashing and sheet metal.
3. Section \_\_\_\_\_ final cleaning.

##### 1.02 References:

- A. Construction Consulting Laboratory **Report #CCLI-00-109**
- B. OSHA Fall Protection regulations; 29 CFR 1910 & 1926

##### 1.03 Performance Criteria:

###### A. Uniform Load:

No breakage or disengagement of the glazing shall occur upon impact of 775 ft. lbs.

##### 1.04 Submittals:

###### A. Shop Drawings:

Submit \_\_\_\_\_ copies of manufacturers 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:

Fall Protection skylight(s) shall be American Skylites model TCM-FG as manufactured by American Skylites, Arlington, Texas, (1-800-772-7401)

##### 1.07 Alternates:

Alternate manufacturers may not be considered without prior approval. Alternate manufacturers must have a minimum ten (10) years experience in the design and manufacture of skylights, must have similar complexity of projects completed within the past five (5) years and must submit drawings for architects review.

## **Part 2: Products:**

### **2.01 Materials:**

#### A. Thermal Break Curb Mount Frame:

Frame shall be fabricated from 6063-T5/T6 aluminum extrusion with a minimum thickness of .060. Frame shall have a polyurethane thermal break to reduce thermal transfer and reduce condensation on the interior of the frame. Frame shall have an integral condensation gutter. All corners shall be welded using the heliarc process. Optional 9”/12” curb wall shall be minimum 0.032 outer curb wall/.032 inner curb wall with optional 1” fiberglass or polyisocyanurate insulation.

#### B. Polycarbonate Domes:

Polycarbonate domes shall be Clear/Clear, Clear/White, or Bronze/Clear. Domes shall be secured to frame with a fully welded retainer cap, minimum thickness of .125”. Custom dome colors and as selected by architect.

#### C. Aluminum Finish:

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

#### D. Glazing Gaskets and Sealants:

All glazing to be separated from frame by a continuous sealant tape. All sealant to 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 manufacturers 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.

**End of Section**