

## SECTION 08620—UNIT SKYLIGHTS

### Curb Mount (Model CM) & Thermally Broken Curb Mount (Model TCM)

#### PART 1: General

##### 1.01 Section Includes:

###### A. Scope:

This section includes everything necessary for and incidental to the execution and completion of the Acrylic or Polycarbonate glazed **Curb Mount** or **Thermally Broken Curb Mount** skylight as shown on all drawings and specified herein.

###### B. Work Included:

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

1. Sealed double domed unit skylights complete with curb mount frame for installation on flashed curb by others.

###### C. Related Work:

1. Division 7: Thermal & Moisture Protection.
2. Division 8: Windows & Doors.
3. Section \_\_\_\_\_ final cleaning.

##### 1.02 References and Approvals:

Sheffield Plastics, Inc., 119 Salisbury Road, Sheffield, MA 01257

**Product Control Notice of Acceptance (NOA): 01-0709.07 Expires: 08/27/2007**

National Accreditation & Management Institute 11870 Merchants Walk Newport News VA 23606

**Product, Manufacturing and Quality Assurance Certification No.: NI009198A**

Construction Consulting Lab 1601 Luna Road Carrollton, Texas 75006

**AAMA/WDMA/CSA 101/LS.2/A440-05 including: ASTM E283, ASTM E330, ASTM E331**

**ASTM E547—Standard specification for windows, doors & skylights**

American Society for Testing and Materials (ASTM)

##### 1.03 Performance Criteria:

###### A. Uniform Load:

Acrylic and/or polycarbonate unit skylights must meet the requirements of uniform load test ASTM E330 that requires glazing to withstand a positive and negative test pressure of 60PSF.

###### 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 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 for frame and finish, seven (10) years for glazing.

#### 1.06 Manufacturer:

Curb Mount skylight(s) shall be Maxim Industries, Inc. model CM or model TCM as manufactured by Maxim Industries, Inc., 1630 Terre Colony Dallas, Texas, 214-905-2021 with sizes as shown on drawings.

### **Part 2: Products:**

#### 2.01 Materials:

##### A. Curb and Curb Frame:

**1) Curb and curb mount** shall be fabricated from 6063-T5/T6 aluminum extrusion.

Curb mount frame shall be fabricated from 6063-T5/T6 aluminum extrusion with a thickness of .060. Curb mount frame shall have an integral condensation gutter. All corners shall be welded using the heliarc process.

**2) Thermally Broken curb mount** shall be fabricated from 6063-T5/T6 aluminum extrusion. Curb frame shall be minimum .060 with polyurethane thermal break. 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 Sealed Domes:

Acrylic 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

##### C. Sheffield Makrolon SL Sealed Polycarbonate Domes:

Sheffield Makrolon SL® sealed Polycarbonate domes shall be Clear/Clear, Clear/ Bronze, Clear/Gray, Clear/White or White/Clear. Domes shall be secured to frame with a fully welded retainer cap, thickness of .060. Domes shall be factory sealed using vulcanizing sealant tape to permanently seal top and bottom domes.

##### D. Aluminum Finish:

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

##### E. Sealants:

###### 1. Dow Corning 795 sealant:

Dow Corning 795 structural sealant applied continuously around perimeter of skylight between .060" X 1.5" X 1.75" T6063 extruded aluminum retaining angle

and Acrylic or Polycarbonate top dome.

2. Schnee-Morehead 5127 sealant tape:  
Schnee-Morehead 5127 Sealant Tape applied continuously between  
Polycarbonate bottom dome and .060" T6063 extruded aluminum frame

F. Fasteners:

All 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 installation drawings and instructions provided by the manufacturer. 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 manufacturers label.

**End of Section**