SECTION 08620

UNIT SKYLIGHTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Preformed plastic skylights with integral metal frame.

B. Integral curb.

1.02 RELATED REQUIREMENTS

A. Section 05500 - Metal Fabrications: Miscellaneous steel framing for rough opening.

B. Section 07620 - Sheet Metal Flashing and Trim: Skylight counterflashing.

1.03 REFERENCE STANDARDS

A. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.

B. ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

1.04 PERFORMANCE REQUIREMENTS

A. Allow for expansion and contraction within system components caused by a cycling surface temperature range of 170 degrees F without causing detrimental effects to system or components.

B. Design to withstand live loads as calculated in accordance with government building code.

1.05 SUBMITTALS

A. See Section 01350 - Submittals, for submittal procedures.

B. Product Data: Provide structural, thermal, and daylighting performance values.

C. Shop Drawings: Indicate configurations, dimensions, locations, fastening methods, and installation details.

D. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum 10 years documented experience.

1.07 WARRANTY

A. See Section 01740 - Warranties and Guarantees, for additional warranty requirements.

B. Provide five year manufacturer warranty for including leakage due to defective skylight materials or workmanship.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Unit Skylights:
   1. Bristolite Skylights: www.bristolite.com.
   2. The Vistawall Group: www.naturalite.com.
   3. Wasco Products, Inc: www.wascoproducts.com.

4. Substitutions: See Section 01640 - Substitutions and Products Options.

2.02 COMPONENTS

A. Unit Skylight Type 54-ACS-SF-1-BT-WGEL: Factory-assembled glazing in aluminum frame; single dome.
   1. Circular domed shape.
   2. Nominal Size: 54 inch inside diameter

B. Single Glazing: Acrylic plastic; bronze tinted transparent.

C. Support curbs: ASTM B 209 (ASTM B 209M) Sheet aluminum, sandwich construction; 4 inch high self-flashing with 2-3/4 inch roof flange.

2.03 ACCESSORIES

A. Anchorage Devices: Type recommended by manufacturer.

B. Counterflashings: Same metal type and finish as skylight frame.

C. Protective Back Coating: Asphaltic mastic, ASTM D 4479 Type I.

D. Sealant: As specified in Section 07900.

2.04 FABRICATION

A. Fabricate free of visual distortion and defects.

B. Fabricate to achieve leakproof, weathertight assembly.

C. Fabricate components to allow for expansion and contraction with minimum clearance and shim spacing around perimeter of assembly.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify existing conditions before starting work.

B. Verify that openings and substrate conditions are ready to receive work of this section.

C. Verify that curbs installed under other sections are complete.

3.02 PREPARATION

A. Apply protective back coating on aluminum surfaces of skylight units that will be in contact with cementitious materials or dissimilar metals.

3.03 INSTALLATION

A. Install aluminum curb assembly, fastening securely to roof decking. Flash curb assembly into roof system.

B. Place skylight units and secure to curb assembly. Install counterflashing as required.

C. Apply sealant to achieve watertight assembly.

3.04 CLEANING

A. Remove protective material from prefinished aluminum surfaces.

B. Wash down exposed surfaces; wipe surfaces clean.

C. Remove excess sealant.

END OF SECTION