



GUIDE SPECIFICATION FOR SECTION 08625 METAL FRAMED SKYLIGHTS

PART 1: GENERAL

1.01 SCOPE

Includes but is not limited to the design, fabrication and installation support necessary for the completion of all skylight work, as shown on the drawings and as specified herein.

1.02 RELATED WORK

- A. Section 05120: Structural Steel
- B. Section 05500: Metal Fabrications
- C. Section 07600: Flashing & Sheet Metal
- D. Section 08800: Glazing
- E. Section 08900: Glazed Curtain Walls

1.03 REFERENCES

- A. AA: Aluminum Association
- B. ASTM: American Society for Testing and Materials
- C. AAMA: American Architectural Manufacturers Association

1.04 SUBMITTALS

- A. Submit ____ (specify quantity) copies of shop drawings
- B. Submit ____ (specify quantity) each 6" long samples of specified frame finish.
- C. Submit ____ (specify quantity) each 12" x 12" inch samples of specified glazing material.

1.05 GUARANTEE

- A. The Skylight(s) framing system shall be guaranteed for a period of ____ (specify warranty period) years after completion of the skylight installation against defects in design, materials, and workmanship as provided for in manufacturers standard warranty.
- B. Warranty of glazing materials shall be as provided by the glazing material manufacturer.

1.06 PERFORMANCE REQUIREMENTS

- A. The skylight(s) shall be designed to support the following loads:
 - 1. Live load of ____ (specify) psf.
 - 2. Wind load of ____ (specify) psf.
 - 3. Snow load of ____ (specify) psf.
- B. Air infiltration of manufacturer's standard glazing system shall not exceed .06 CFM per square foot when tested in accordance with ASTM E-283 at a static pressure of 6.24 PSF.
- C. No uncontrolled water penetration shall occur in manufacturers standard glazing system when tested in accordance with ASTM E-331 at a static pressure of 15.0 PSF.
- D. The maximum allowable deflection of all structural framing components shall be limited to $L/175$.



PART 2: PRODUCTS

2.01 MANUFACTURER

- A. Contract documents are based upon skylight(s) as manufactured by Skyline Sky-Lites, 2925 Delta Drive, Colorado Springs, CO 80910 (866) 625-1330.
- B. Additional manufacturers will be considered and approved by addendum upon submission of the following at least ten (10) days prior to bid:
 - 1. Certification by an independent testing laboratory stating compliance with specified performance requirements.
 - 2. Listing of projects sufficient to certify that manufacturer has successfully performed on comparable projects of size and scope over the previous five years.
 - 3. Complete details for review by Architect.

2.02 FRAMING MATERIALS

- A. Extruded aluminum framing members shall have the minimum mechanical properties of 6063-T5 aluminum. Actual alloy and temper will be determined based upon structural performance and finishing requirements.
- B. Formed flashings and closures shall be of 5052 aluminum, .040" minimum thickness.

2.03 GLAZING GASKET & BLOCKING

- A. Glazing strips to be of Santoprene or Neoprene in compliance with ASTM C-509, or ASTM C-864 respectively.
- B. Setting blocks to be of extruded silicone rubber.

2.04 FASTENERS

- A. Framework connections - 300 series stainless steel concealed to the greatest extent possible. Provide for flush appearance where exposed.
- B. Retaining caps-300 series stainless steel, fully concealed.
- C. Installation Hardware-Cadmium plated steel.

2.05 FINISH

(Architect to specify desired frame finish)

- A. AA-M10C22A41 class I clear anodized not less than .7 mil thick complying with AAMA 607.1
- B. AA-M10C22A44 class I bronze or black anodized not less than .7 mil thick. complying with AAMA 606.1
- C. Baked enamel complying with AAMA 603.8
- D. Fluoropolymer (Kynar 500) complying with AAMA 605.2
- E. Manufacturers standard Acrylic Polyurethane (air dry)

2.06 GLAZING

(Architect to specify glazing material)

2.07 FABRICATION

- A. Fabricate skylight(s) using a stacking design to direct the flow of condensation and migrating moisture to the exterior.
- B. Skylight(s) shall be fitted and assembled to the greatest extent possible in the manufacturers plant.
- C. All necessary welding shall be accomplished by an inert gas process.



PART 3: INSTALLATION

3.01 INSTALLATION

- A. Skylight shall be installed and glazed in strict compliance with manufacturer's instructions.
- B. Installer shall inspect supporting structure for deficiencies and dimensional tolerances and shall notify the General Contractor in writing of any errors or deficiencies. No further erection work shall be done until the faulty conditions have been corrected.
- C. Isolate aluminum from dissimilar materials with a protective coating to prevent electrolytic action.

END OF SECTION 08625