

**SPECIFICATIONS METAL FRAMED SKYLIGHTS  
SECTION 08630**

**PART 1. GENERAL**

- 1.01 SCOPE OF WORK  
Design, engineering, fabrication and installation of skylights described on contract documents and specified herein.
- 1.02 SUBMITTALS
- A. Samples - per architect's requirements.
  - B. Shop Drawings.  
( ) copies of shop drawings shall be submitted for the architect's approval prior to starting fabrication.
  - C. Structural Calculations.  
Structural calculations by a registered professional engineer to confirm compliance with all loading requirements.
- 1.03 STRUCTURAL DESIGN  
Aluminum skylight structures shall be designed for the loads prescribed by 2010 CBC Section 2405 & the local governing building codes. Total deflection of rafters will not exceed 1/175 of the span or 3/4".
- 1.04 QUALITY ASSURANCE
- A. Skylight design, erection and glazing shall comply with guidelines as specified by 2010 CBC Section 2405 & AAMA 101 standards.
  - B. All work to be performed by qualified personnel who are experienced in the fabrication, erection and glazing of structural skylight systems.
- 1.0 WARRANTY
- A. A written warranty will be presented upon final payment that certifies the skylight(s) shall be free of defects in design, materials and workmanship for a period of ( ) years from date of complete installation.
  - B. Glazing materials to be covered by glazing manufacturer's standard warranty.

**PART 2. PRODUCTS**

- 2.01 Skylight(s) described herein shall be manufactured by LESLIE Skylights, 1601 Ord Way, Oceanside, CA 92056, Ph. (760) 758-2080, Fax (760) 758-2082. Other manufacturers must be approved by the architect.
- 2.02 MATERIALS
- A. Framework
    - 1. Supporting members shall be extruded aluminum alloy 6063-T5 and possess integral condensation gutters.
    - 2. Retainer caps shall be extruded aluminum alloy 6063-T5 and provide for snap-on covers to conceal required fasteners.
    - 3. Formed aluminum flashing and caps shall be alloy 5052-H32, min. .050 thickness.
  - B. Glazing materials to be:
  - C. Glazing gaskets to be snap-in type, EPDM, with a hardness of 50 ± 5 Durometer Shore A. Color: Black.
  - D. Setting blocks shall be neoprene rubber, with a hardness of 80 ± 5 Durometer Shore A. Color: Black.
  - E. Fasteners
    - 1. Fasteners used in skylight construction shall be series 300 stainless steel.
    - 2. Fasteners used to attach skylight to supporting curbs shall be cadmium plated steel unless otherwise specified.
  - F. Finish to be:
  - G. Sealants
    - 1. Standard construction joints and all non-structural seals shall be silicone sealants of construction grade quality, compatible

- with substrates and finishes and applied in accordance with manufacturer's recommendations.
- 2. Structural joints shall be sealed using high performance silicone sealants, compatible with substrates and finishes and applied in accordance with manufacturer's recommendations.

2.03 FABRICATION

- A. The skylight(s) shall be constructed using aluminum extrusions of alloy as specified.
- B. In so far as practical, skylights shall be completely fabricated in manufacturer's shop. Structures that cannot be permanently shop assembled shall be completely assembled, marked and disassembled prior to shipment to jobsite to ensure accurate erection.
- C. All rafter bars shall be designed for snap-in installation of glazing gaskets.
- D. Retainer caps shall be attached using stainless steel fasteners spaced a maximum of 12" o.c.
- E. All brackets for attachment of rafters/purlins shall be aluminum and shall be securely welded, riveted or bolted in manufacturer's shop.
- F. All welding to be GTAW or MGAW process, and shall be performed by certified welders in accordance with AWS D1.2-90 for aluminum.
- G. Glass shall be supported with neoprene setting blocks and shall be sized and located per the glass manufacturer's recommendations. At no point shall glass contact any metal components of the skylight.
- H. Weep holes shall be provided to drain condensation to the outside.

**PART 3. EXECUTION**

3.01 INSPECTION

The installer shall inspect all mounting surfaces and determine that the area is in design and dimensional agreement with approved shop drawing. In event of error, the installer is to bring all deviations to the attention of the general contractor at once. No further erection work to proceed until the incorrect work is amended.

3.02 INSTALLATION

- A. Skylight system shall be installed in strict accordance with the erection drawings.
- B. Skylight system shall be installed by LESLIE Skylights or an authorized subcontractor.
- C. All areas coming in contact with dissimilar materials shall receive a protective coating or a plastic isolator to prevent electrolytic corrosion.
- D. Upon completion of installation, skylight to be clean and free of all labels, marks and dirt.
- E. Cleaning instruction for exposed finishes and glazing materials shall be provided to the general contractor/owner upon request.
- F. Final cleaning and physical protection of all installed materials shall be the responsibility of the general contractor/owner.
- G. Installed materials, including glazing shall be protected by the general contractor/owner from damage caused by falling debris, tools and equipment associated with overhead and adjacent work by other trades.



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