



Section 08 62 00 Roof Accessories – Unit Skylights

This document is meant as a spec guide for the discernment of technical specifications that may apply to our products and that may be chosen to apply per a customer requirement. It is not meant as a claim to all the standards listed as applicable to every Series 1200 product sold.

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Prefabricated fixed unit skylights
- B. Related Sections:
 - 1. Section 05050 (05 05 00) - Common Work Results for Metals.
 - 2. Section 05100 (05 10 00) - Structural Metal Framing.
 - 3. Section 05200 (05 20 00) - Metal Joists.
 - 4. Section 05300 (05 30 00) - Metal Decking.
 - 5. Section 05400 (05 40 00) - Cold-Formed Metal Framing.
 - 6. Section 06100 (06 10 00) - Wood Framing. Site built wood curbs and nailers.
 - 7. Section 07310 (07 31 00) - Roof Shingles and Shakes. Flashing of skylight base.
 - 8. Section 07320 (07 32 00) - Roof Tiles. Flashing of skylight base.
 - 9. Section 07360 (07 36 00) - Single Ply Membrane Roofing.
 - 10. Section 07510 (07 51 00) - Built-Up Bituminous Roofing. Flashing of skylight base.
 - 11. Section 07520 (07 52 00) - Modified Bituminous Membrane Roofing. Flashing of skylight base.
 - 12. Section 07525 (07 52 50) - Modified Sheet Roofing.
 - 13. Section 07530 (07 53 00) - Electrometric Membrane Roofing. Flashing of skylight base.
 - 14. Section 07540 (07 54 00) - Thermoplastic Membrane Roofing. Flashing of skylight base.
 - 15. Section 07600 (07 60 00) - Flashing and Sheet Metal. Metal curb flashings.
 - 16. Section 07610 (07 61 00) - Sheet Metal Roofing
 - 17. Section 08620 (08 60 00) - Unit Skylights. Skylights without reflective tube.

1.2 REFERENCES

- A. Aluminum Association (AA)
 - 1. Specifications for Aluminum Structures.
- B. American Architectural Manufacturers Association (AAMA)
 - 1. AAMA 1600/IS7, Skylight Standard
 - 2. AAMA Skylight Installation Manual
 - 3. AAMA 1505.1-87, Voluntary Standard Uniform Load Test Procedure for Plastic Glazing Skylights by Uniform Static Air Pressure Difference.
- C. American Society for Testing and Materials (ASTM)
 - 1. ASTM A463/A463M - Standard Specification for Steel Sheet, Aluminum Coated, by the Hot Dip Process.

2. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc Coated (Galvanized), by the Hot Dip Process.
 3. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
 4. ASTM B221 - Standard Specification for Aluminum-Alloy Bar, Rod, and Wire.
 5. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Tension.
 6. ASTM D635 - Test Method for Rate of Burning and/or Extent of Time of Burning of Self-Supporting Plastics in a Horizontal Position.
 7. ASTM D1003 - Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics.
 8. ASTM D1929 - Standard Test Method for Determining Ignition Temperature of Plastics.
 9. ASTM D2843 - Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics.
 10. ASTM D4802 Specification for Poly (Methyl Methacrylate) Acrylic Plastic Sheet
 11. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
 12. ASTM E108 - Standard Test Methods for Fire Tests of Roof Coverings.
 13. ASTM E283 - Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
 14. ASTM E313 - Standard Practice for Calculating Yellowness and Whiteness Indices from Instrumentally Measured Color Coordinates
 15. ASTM E330 - Structural Performance of Exterior Windows, Curtain Walls, and Doors.
 16. ASTM E331 Test Method for Water Penetration of Exterior Windows, Curtain Walls and doors by Static Air Pressure Difference.
 17. ASTM E1886 - Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missiles and Exposed to Cyclic Pressure Differentials.
- D. International Code Council (ICC):
1. International Building Code (IBC 2024)
 2. International Energy Conservation Code (IECC 2021)
- E. North American Fenestration Standard (NAFS):
1. AAMA/WDMA/CSA/101/IS.2/A440 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights.
- F. National Roofing Contractors Association (NRCA)
1. Roofing and Waterproofing Manual.
- G. Factory Mutual (FM)
1. FM 4431 Standard for Skylights
- H. American Welding Society (AWS)
1. AWS D1.1 Structural Welding Code

1.3 PERFORMANCE REQUIREMENTS

Remove all performance options that are not required.



- A. Factory Mutual:
 - 1. Skylights to be Factory Mutual 4431 approved.
 - 2. Wind Uplift: minimum 150 psf
 - 3. Spread of Flame Rating: Class A at 1 in 12
- B. Light-Transmitting Plastics
 - 1. KILON Monolithic or Prismatic polycarbonate
 - a. Combustion rating:
 - (i) CC1 for Polycarbonate
 - b. Smoke Density rating: < 75
 - c. Smoke-development Index: < 450

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Product Data Sheet
 - 2. Installation & Maintenance Manual
 - 3. Installation instructions
- C. Sales Drawing showing Skylight assembly, base, and accessories
- D. Certificate of Compliance or third party certificates verifying compliance with performance requirements.
- E. Closeout Submittals: Warranty Documents

1.5 DELIVERY, STORAGE AND HANDLING

- A. Handle, deliver and store in manufacturer's original packaging, following the manufacturer's recommendations. Store in a dry area and in a manner to prevent damage.
- B. Exercise caution when hoisting unit to the roof so as not to damage the release mechanism.

1.6 WARRANTY

- A. Skylight Warranty: Provide written warranty by the manufacturer, agreeing to provide replacement components that exhibits defects in materials or workmanship.
- B. Warranty period to be 10 years from date of purchase for aluminum framed skylights. Two years for galvanized steel framed skylights and Galvanized steel base frames.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Kingspan Light + Air, 28662 N. Ballard Drive, Lake Forest, IL 60045, available exclusively through Logistics Lighting with an extended warranty and National Account pricing. Contact for quotes or product questions: Sales@LogisticsLighting.com or 307-633-9696 or Toll-Free at 844-455-7283 website: www.LogisticsLighting.com



- B. Substitutions: Not permitted
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 SKYLIGHTS

Select one of the below skylight options and delete the others.

- A. SERIES 1200 SKYLIGHT (ALT(F))
 - 1. System Description: Triarch dome skylight with Curb Mount (CM) or Self-Flashing (SF) base. Constructed of aluminum extruded framing members with fully welded corners with integrated guttering system for condensation management and drainage. Thermally broken frame only.
 - 2. Glazing: [Clear Polycarbonate]
[White Polycarbonate]
[Clear Polycarbonate over White prismatic polycarbonate]
 - 3. Mounting:
 - a. Curb Mounted (CM)
 - b. Curb Mounted with Tape (CMT)

2.3 FABRICATION

- A. Fabricated by an ISO 9001:2015 Certified Manufacturer.
- B. Fabricate free of visual distortions and defects. Weld corners and joints.
- C. All fasteners and hardware shall be corrosion resistant.
- D. Provide a weather tight assembly.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install Skylights in accordance with manufacturer's instructions. Coordinate roof membrane installation requirements specified in other Sections.
- B. Skylight curbs bearing on roof deck:
 - 1. Set units in place and secure curb flange to steel roof deck by self-tapping non-corrosive screw fasteners, spaced at a maximum of 12" on center, staggered.
- C. Apply bituminous paint on metal surfaces of units in contact with cementitious material and dissimilar metals.
- D. After installation, remove shipping screws and test vents to ensure that vents operate as intended.



END OF SECTION