

LYNBROOK SYSTEMS SPECIFICATIONS

PART 1 GENERAL

1.01 SCOPE

- A. INCLUDES – Design, drafting, engineering, fabrication, finish and erection of the entire skylight system.
- B. Furnishing and installing glass or glazing for the skylight unit.
- C. Related flashing.

1.02 QUALITY ASSURANCE

- A. Skylight manufacturer to assume all responsibility of work specified herein with a maximum of 10 years experience of design, manufacture and installation of skylights of similar magnitude and scope.
- B. PERFORMANCE REQUIREMENT
 1. Structural – The skylight members are to be of sufficient size to support specified loads or local code requirements.

- a. Deflection in a direction perpendicular to the plane of glass shall not exceed L/175 or 1” of its clear span when tested in accordance with ASTM E330 and per the above specified loads.
 - b. Deflection in a direction parallel to the plane of the glass shall not exceed an amount which will reduce the glass or panel bite of 75% of the design dimension.

2. AIR INFILTRATION – With a differential static pressure of 20% of design load, but not less than 6.24 P.S.F. Air infiltration shall not exceed .06 C.F.M./Ft.² when tested in accordance with ASTM E283.

3. WATER INFILTRATION – Water penetration is defined as the appearance of uncontrolled water other than condensation on the room side of the skylight assembly. With a differential static pressure of 20% of the design load, but not less than 6.24 psf. No water penetration shall occur when system is tested in accordance with ASTM E331.

4. THERMAL MOVEMENT – Design skylight system to provide for such expansion and contraction of component materials as caused by surface temperature range of ± 50° F without causing buckling, failure of seals, undue stress on structural elements, or damaging loads on fasteners.

1.03 SUBMITTALS

1. Submit shop drawings showing plans, elevations, details and connections for fabrication, erection and approval by architect.

1.04 WARRANTY

1. Skylight manufacturer shall furnish a written warranty for a period of ___ years stating skylights shall be free from

- defects in design, material, fabrication and installation.
2. Glazing glass or glazing material is warranted against seal failure, delamination or defects in manufacture per the standard manufacturer’s warranty.
3. Finish is warranted against color fading, chipping, pitting and film integrity per the standard applicator’s warranty.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Drawings and specifications are based on catalog data, specifications and products of:

Lynbrook Glass and
Architectural Metals Corp.
941 Motor Parkway
Hauppauge, NY 11788
(631) 582-3060
FAX: (631) 582-3974

- B. Substitution – Approved equal.

2.02 MATERIALS

A. ALUMINUM

1. All skylights supporting members shall be minimum thickness of .125” extruded aluminum alloy. 6063-T5, 6063-T6 or 6061-T6, per ASTM B221. Sizes and profiles as indicated on contract drawings.

2. Miscellaneous, snap on covers and non-supporting members shall be min. thickness of .062” extruded aluminum alloy 6063-T5 per ASTM B221.

3. Flashings, trim and closures shall be of formed compatible metal with a minimum thickness of .032”.

- B. FASTENERS – Shall be aluminum or compatible stainless steel series 300. Exposed fasteners shall be finished to match aluminum work.

- C. GASKETING – Snap or slip in type extruded neoprene of sufficient durometer (Shore A 50± durometers.)

- D. GLASS – Architect to specify per glass manufacturer.

E. FINISHES -

1. All anodized finishes shall meet the performance requirements of AAMA Publications.

2. All painted finishes to be color selected by architect.

- a. Thermosetting acrylic enamel equal to PPG Industries “Duracon.”

- b. Fluoropolymer two coat system equal to PPG Industries “Duramar.”

- c. Fluoropolymer three coat system equal to PPG Industries “Duramar XL.”

2.03 FABRICATION

- A. Skylights are to be constructed of extruded aluminum members employing internal condensation gutters, (concealed

or exposed) such that any water will be drained harmlessly to the exterior thru weeps at the curb.

- B. Skylights are to be shop assembled, marked and knocked down or completely assembled before shipping depending on practicability and size.

- C. Pressure bars are to accept fasteners 12” o.c. max. spacing, for snap in gaskets, and to receive snap on cover to conceal fasteners.

- D. Connectors are to be bolted or welded as required.

- E. Use silicone setting blocks to support glass and to provide proper edge clearances and glass bites in accordance with FGMA recommendations.

PART 3 EXECUTION

1. EXAMINATION – Examine openings for skylight system(s) prior to commencing installation. Notify Construction Manager or General Contractor in writing of any conditions that are detrimental to the integrity of the skylight. Installation shall not begin until such conditions are remedied.

2. PREPARATION – Dissimilar metals and masonry must be separated from aluminum with a heavy coat of zinc chromate or bituminous paint.

3. INSTALLATION -

- a. Installation must be in strict accordance with manufacturer’s shop drawings, specifications and recommendations for the skylight(s).

- b. Set units plumb, true, without warping or racking of panels and without waves or buckling. Anchor securely in place in accordance with approved shop drawings.

- c. Apply sealant where indicated on drawings or where standard practice dictates.

- d. GLAZING – Glaze in accordance with approved shop drawings specifications and manufacturer’s recommendations.

4. CLEANING – Glazing panels and framing shall be left in scratch free condition inside and out with all labels removed.

5. FINAL CLEANING AND PROTECTION – Final cleaning and protection prior to owner’s acceptance of completed work is the responsibility of the General Contractor of Construction Manager.