

**SECTION 10730  
LIGHTSHELF DAYLIGHTING PANELS**

**Part 1 General**

**1.01 Summary**

- A. This section includes the following types of products to assist in controlling the sun to enable the practice of daylight management :
  - 1. Interior Lightshelf Devices
  
- B. Related Sections: The following sections contain requirements related to this section:
  - 1. Section 08620 "Unit Skylights"
  - 2. Section 08625 "Unit Skylight Structures"
  - 3. Section 08810 "Glass"
  - 4. Section 08870 "Glazing Film"
  - 5. Section 08900 "Glazed Curtain Walls"
  - 6. Section 08970 "Structural Glass Curtain Walls"
  - 7. Section 10705 "Exterior Sunshade Devices"

**1.02 References**

- A. American Society for Testing and Materials (ASTM)
  
- B. The Aluminum Association

**1.03 Submittals**

- A. General: Submit the following in accordance with conditions of contract and Division 1 specification section 01300.
  
- B. Product data for each type of daylight management device specified, including manufacturer's specifications and installation instructions, details of construction relative to materials, dimensions of individual components, profiles and finishes.
  
- C. Shop drawings in sufficient detail showing layout of daylight device specified including manufacturer's specifications and installation instructions, details including construction relative to building construction, anchors and accessories.
  
- D. Samples for verification purposes: Submit a hand sample of daylight device showing specific surface finishes with intended method of anchorage and accessories required.
  
- E. Maintenance data in the form of manufacturer's printed instructions for cleaning and maintaining daylight device.

**1.04 Quality Assurance**

- A. Engage an installer who has not less than 5 years experience in product installation.
- B. Assemblies should conform to all applicable code requirements.
- C. Single Source Responsibility : Obtain daylight devices from one source of a single manufacturer.

### **1.05 Delivery, Storage, and Handling**

- A. Deliver materials to the project site ready for use and fabricated in as large sections and assemblies as practical, in unopened original factory packaging clearly labeled to identify manufacturer.

### **1.06 Project Conditions**

- A. Field measurements: Check actual device requirements by accurate field measurements before fabrication. Record actual measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay of work.

## **Part 2 Products**

### **2.01 Manufacturers**

- A. Drawings and specifications are based on manufacturer's literature from Construction Specialties Inc., Cranford, New Jersey. Other manufacturers must comply with the minimum levels of material and detailing indicated on the drawings and specified herein.

### **2.02 Materials**

- A. Aluminum - ASTM B 211 and or 209, alloys 3003 and 6063-T5 or 6063-T6 for extrusions.
- B. Fasteners - All fasteners to be non-corrosive and compatible with the above aluminum and or stainless steel materials. All necessary fasteners to be supplied by the manufacturer.
- C. Extruded 2 ½" deep extruded aluminum channel frame with mitered corners. Center support tube to be 2 ½" X 2 ½" extruded tube.
- D. Minimum .080" thick top and bottom aluminum sheet fastened to the extruded aluminum channel frame.

## **2.03 Interior Light shelf Devices**

- A. Provide light shelves and accessories of design, material, sizes, depth, arrangement and thickness as indicated or as required for optimal performance with respect to strength; durability; and uniform appearance.
- B. Include supports, anchorage, and accessories required for complete assembly.

## **Part 3 Execution**

### **3.01 Examination**

- A. Verification of conditions: Examine areas and conditions under which work is to be performed and identify conditions detrimental to proper or timely completion.
  - 1. Do not proceed until unsatisfactory conditions have been corrected.

### **3.02 Preparation**

- A. Surface preparation: Prior to installation, clean substrate to remove dirt, debris, and loose particles. Perform additional preparation procedures as required by manufacturer's instructions.
- B. Protection: Take all necessary steps to prevent damage to material during installation as required in manufacturer's installation instructions.

### **3.03 Installation**

- A. Install the work of this section in strict accordance with the manufacturer's recommendations. Use only the hardware supplied by the manufacturer, locating all components firmly into position, level and plumb.

### **3.04 Cleaning**

- A. Clean the interior reflective surface of light shelf at regular intervals to prevent the build-up of dust and debris.

### **3.05 Protection**

- A. Protect installed materials to prevent damage by other trades. Use materials that may be easily removed without leaving residue or permanent stains.