

# **Astralume Luminous Ceiling System**

## **MR-MANUFACTURER**

### **Interfinish**

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Interfinish is a division of the Chicago Metallic Corporation focused on Metal Ceiling Systems and Specialty Ceiling Systems. The wide variety of ceiling products include linear metal, open cell, baffles, skylights, metal tiles and planks, and security systems.

Interfinish was created in 1994 as a result of the acquisition of Alcan Building Products' Ceiling Division. Interfinish is a combination of Chicago Metallic's long history and experience of over 100 years in manufacturing building products, and Alcan's proven metal ceiling systems. Chicago Metallic's dedication and commitment to excellence extends to Interfinish with a strong focus on design innovation, quality and service.

Interfinish sales representatives are located all across the country to promptly respond to your project design needs in a professional and effective manner. The Interfinish team can provide you with the extra effort and technical expertise that will help your project run more smoothly from start to finish.

## **PP-PRODUCT PRESENTATION**

The Astralume skylight system is a practical alternative to natural skylights, creating an open air feeling by bringing an illusion of outside sunlight into an interior space.

Astralume extruded aluminum components are pre-cut, pre-punched, and pre-mitered. Acrylic luminous panels are impact resistant and lightweight. Both components and panels unite to make for an easy to handle system with a long life cycle.

A wide selection of module sizes and a choice of square or rectangular shapes allows for design creativity. Custom modules are also available.

## **SECTION 09500 - ACOUSTICAL TREATMENT**

### **PART 1 - GENERAL**

#### **1.01 Scope**

A. Furnish and install the Astralume Interior Luminous Skylight System as manufactured and supplied by Interfinish, a division of the Chicago Metallic Corporation.

#### **1.02 Related Sections**

- A. Section 09120 Ceiling Suspension Systems
- B. Section 09130 Acoustical Suspension Systems
- C. Section 09545 Special Ceiling Systems
- D. Section 13020 Integrated Assemblies

- E. Section 13080 Sound, Vibration, and Seismic Control
- F. Section 15550 Heating, Ventilating, and Air Conditioning
- F. Section 16500 Lighting

### 1.03 References

#### A. American Society for Testing and Materials

1. C 635 - Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-In Panel Ceilings.
2. C 636 - Standard Recommended Practice for Installation of Metal Suspension Systems for Acoustical Tile and Lay-In Panel Ceilings.
3. E-84 - Test Method for Surface Burning Characteristics of Building Materials.
4. E-580 - Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels in Areas Requiring Seismic Restraint.

### 1.04 Submittals

#### A. Product/Technical Literature

1. Submit descriptive literature along with installation recommendations and practices, as described and illustrated in Interfinish literature.

#### B. Samples

1. Submit Interfinish sample kit containing appropriate Astralume Interior Luminous Skylight System samples.

#### C. Shop Drawings

1. Submit shop drawings illustrating appropriate placement of product.

#### D. Certification

1. Furnish certification of materials and system conforming to specification requirements.

### 1.05 Project Conditions

#### A. Environmental Requirements

1. Verify that the area in which the Astralume system is to be installed is weathertight and dry.
2. Installation shall occur only when temperature and humidity conditions closely approximate interior conditions that will exist when area is complete and occupied.

#### B. Trade Requirements

1. Heating or cooling systems shall be in operation in order to establish and maintain a suitable climate as referenced above prior to, during, and after installation.
2. All wet trades work is to be dry and thoroughly complete prior to installation of the Astralume Interior Luminous Skylight System system.

### 1.06 Maintenance

#### A. Replacement Material

1. Furnish additional material equal to \_\_\_% of the ceiling system area.

## **PART 2 - PRODUCTS**

### 2.01 Manufacturer

- A. Astralume Interior Luminous Skylight System, consisting of structural frame and acrylic diffusers, as manufactured by Interfinish, 4849 S. Austin Ave., Chicago, Illinois 60638.

### 2.02 Materials

#### A. Structural Frame

1. The framework of the Astralume Interior Luminous Skylight System shall consist of extruded aluminum perimeter, ridge and hip members; pre-fabricated corners; and module-

forming T-shaped grid members. All framework members shall be pre-fabricated to eliminate all field-cutting.

2. The framework components shall be coated with a factory-applied baked polyester enamel paint in standard finishes as offered by Interfinish or as specified by the architect.
  3. The perimeter members shall consist of L-angle shapes, with flanges measuring 1" x 1". All corner shapes shall be pre-mitered and factory-welded to prevent light leaks.
  4. Ridge and hip members shall be formed to a height of 1-1/2". The members shall be formed with a bend, of an appropriate angle, running along the component's length so as to create the correct slope for the T-shaped grid members that mount to the ridge and hip members. The angle of the bend shall be 17-1/2 degrees for single-tier square and rectangular Astralume ceilings, and 45 degrees for two- and three-tier Astralume ceilings. The surface on each side of the bend shall measure 1-1/2" wide.
  5. The module-forming T-shaped grid members shall be formed to a 1-1/2" height with a 15/16" face width.
  6. All framework members shall be joined by means of special coupling components supplied by Interfinish.
- B. Acrylic Diffusers
1. The standard light diffuser shall be formed from .080 (nominal) flat matte opal white acrylic. Dimensions shall be as required by ceiling layout.

### **PART 3 - EXECUTION**

#### 3.01 Examination

- A. Examine area receiving system to identify conditions which will adversely affect installation. Do not begin installation until adverse conditions have been remedied.
- B. Verify completion of work above ceiling plane prior to cell panel installation.

#### 3.02 Installation

- A. The plenum shall be prepared so as to provide the net opening requirements of the Astralume ceiling. Typically, this will be to an overall size 2" greater than the length and width dimensions of the Astralume ceiling. The minimum plenum height shall be as specified in Interfinish literature.
- B. The plenum surface shall be painted white so as to aid in the diffusion of light.
- C. All components shall be installed according to Interfinish instructions as provided on shop drawings supplied with each order.