

# Modulux Canopies by Tudelu

## Part 1 General

### 1.01 Summary

- A. This Section includes the following
  - 1. Tension Rod-supported, pre-engineer, overhead aluminum canopies including fascia channels,insulated metal panels, tension rods, attachment hardware, and add-ons

### 1.03 References

- A. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures
- B. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2015.
- C. ASTM B429/B429M - Standard Specification for Aluminum-Alloy Extruded Structural Pipe and tube; 2015e1.

### 1.04 Submittals

- A. Shop Drawings:
  - 1. Professional Engineered stamped drawings indicating system components, dimensions, attachments, and ad-ons. Show details of connection back to the building.
  - 2. Include design calculations signed and sealed by a professional engineer licensed in the state in which the project is located.

### 1.05 Field Measurements

- A. Confirm site conditions and dimensions prior and after preparation of shop drawings when possible.

### 1.06 Performance Requirements

- A. Design Requirement: Design canopy system to withstand:
  - 1. Standards for wind pressure, snow load, snow drift, and marquee loading in accordance with current requirements of local municipality building codes.
- B. Refer to Structural Drawings for project design loads.

### 1.07 Warranty

- A. Special Warranty: Manufacturer agrees to repair or replace components of canopies that fail in materials or workmanship within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Structural failures including, but not limited to, excessive deflection.

- b. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use; rust through.
  - c. Delamination of exterior or interior facing materials.
- 2. Warranty Period: 4 years from date of Substantial Completion.
- B. Special Finish Warranty: Manufacturer agrees to repair or replace components that show evidence of deterioration of factory-applied finishes within specified warranty period.
  - 1. Warranty Period: 4 years from date of Substantial Completion

#### Care instructions

All powder coated products should be cleaned with either a soft cloth or a brush, using a solution of mild soap and warm water.

### **Part 2 Products**

#### 2.01 Manufacturers

- A. Tudelu, 100 Industrial Ave, Little Ferry, NJ 07643, Phone: (718.782.788)  
<https://tudelu.com/>

#### 2.02 Modulux

- A. Aluminum Extrusions
  - 1. ASTM B221 & ASTM B429; 6063-T6 alloy and temper unless otherwise noted on calculations/shop drawings.
- B. Hardware:
  - 1. All fasteners shall be made of stainless steel material for both strength and corrosion resistance

#### 2.03 Components

- A. Fascia
  - 1. 6" Profile: 6 inches x 4 inches x 0.125 inches Extruded Gutter (6063-T6)
  - 2. 8" Profile: 8 inches x 5 inches x 0.125 inches Extruded Gutter (6063-T6)
- B. Insulated Aluminum Panels:
  - 1. Type: 2 inches x 3'-3 3/4" (6063-T5 Alloy with PE Insulated Foam)
- C. Mounting
  - 1. Type: Hanger Rod Supported: Schedule 40 Aluminum; Square Plate: 6 inches with Jawend.

#### 2.04 Accessories

- A. Drainage:
  - 1. Downspouts and Scuppers shall match the color selected for the canopy system.  
Options: drainage tied into building or drain via post for post supported canopies.
- B. Add-Ons:
  - 1. Tube Profile fabricated from 6063-T6 aluminum alloy
  - 2. Channel Profile fabricated from 6063-T6 aluminum alloy

3. Crown Profile fabricated from 6063-T6 aluminum alloy

#### C. Lighting

1. 5” square LED downlight (Goodlite)
2. 5” round LED downlight (Goodlite)
3. LED Acrylic Lighting

Specs Available Upon Request

#### 2.05 Fabrication (Modulux)

- A. Fabricate canopy system in accordance with approved shop drawings. Canopies are pre assembled by Tudelu approved personnel. Drainage to be fabricated in shop accordance with shop drawings unless otherwise noted to coordinate drainage at site.

#### 2.06 Finishes

- A. Pre-Treatment: All aluminum parts are sandblasted using starblast abrasive media.
- B. Finish: Powder Coating (AAMA 2604) in color selected by the Architect from the manufacturer's full color offering.

### **Part 3 Execution**

#### 3.1 Field Dimensions

- A. Field verify dimensions of supporting structure at site of installation prior to fabrication.

#### 3.2 Installation

- A. Install in accordance with manufacturer’s instructions and approved Shop Drawings.
- B. Install components plumb and level, in the proper plane, free from warp and twist.
- C. Anchor system to building components

#### 3.3 Adjusting

- A. Touch up minor scratches and abrasions on finished surfaces to match the original finish.
- B. Clean with a mild, non-abrasive solution and a cotton cloth under low pressure.

### **End of Section**