

Design Guide to Extruded Aluminum Hanger Canopies

Many factors influence the cost and usefulness of a hanger canopy system. Following the process outlined below will help to ensure an efficient system.

DETERMINE THE APPROPRIATE APPLICATION

- ***Standard Hanger Canopy:*** consist of gutter fascia framework with the deck running perpendicular to the building. This application is most useful over exterior entry ways.
- ***Custom Suspended Hanger Canopy:*** consist of support beams mechanically fastened perpendicular to the building and the deck running parallel with the building. This application has a standard fascia profile in lieu of a gutter type system and is most useful for large projections off the face of a structure and/or extensive lengths of covered area.

SELECTING THE SIZE

After selecting the appropriate application, determine the size of the canopy sufficient for your project.

For exterior entry ways, we suggest an overall width of +6" to the greater on either side of the opening. Determining canopy projection is a matter of preference, however 4'-0" is a common industry standard.

For custom suspended canopies, we suggest that the canopy projection not exceed 10'-0" as a column supported unit is more efficient from a cost and engineering perspective. Reference [***Design Guide to Extruded Aluminum Canopies.***](#)

SELECTING GUTTER FASCIA

Gutter fascia is an extrusion whose purpose is exactly **what** the description implies. The exterior face of the extrusion is either 6" or 8" inches in height and acts as a fascia for the canopy unit. The interior portion of the extrusion has a "G" shaped profile with flanges that allow for the connections of the decking and hanger supports while also acting as a water trough. Reference section entitled [***?***](#) for more information.

SELECTING HANGER SUPPORTS AND SPACING

Hanger supports, or tie-backs, mechanically fasten to the support frame of the canopy and extend vertically, typically at a 30 to 45 degree angle back to the building structure. These supports can be square or circular in nature and come in a variety of sizes. Sizing and spacing is determined based upon the overall dimensions and projection of each unit.

SELECTING THE DECK

Decking can be divided into three categories; roll form decking, corrugated decking, and flat soffit decking. Options are dependent upon finish selection and aesthetic preferences. Reference section entitled [***Deck***](#) for more information.

SELECTING DRAINAGE OPTIONS

Both canopy profiles offer internal drainage systems in which the water can be routed to the front of the canopy and be discharged through a scupper or directed to the back or wall side of the canopy and be discharged at grade level or connect to the storm drain via one or more designated downspouts.

CHOOSE APPROPRIATE FINISH

Selection of finish greatly affects the installed cost of each hanger canopy unit. The painted Baked Enamel finishes in standard white or dark brown are the least costly. The roll form decking is only available in the Baked Enamel finish. Clear Anodize and Dark Bronze Anodize finishes are the medium grade finishes. Finishes using fluoropolymer resin based paints such as Kynar, Hylar and Duranar are high end finishes which come in a wide array of colors. These premium finishes are the most costly available for hanger canopy systems and the related costs can vary greatly depending on the color selected.

INSIST ON AN ENGINEERED SYSTEM

The walkway cover must be designed to withstand all appropriate loads without failure in stress or deflection. Structural calculations, signed and sealed by a registered Professional Engineer are an essential part of a quality walkway cover.

ASK FOR ASSISTANCE

PPC is ready to provide expert guidance at any stage of the planning process. Call us direct at **(800) 341-3325** or [email us](#).