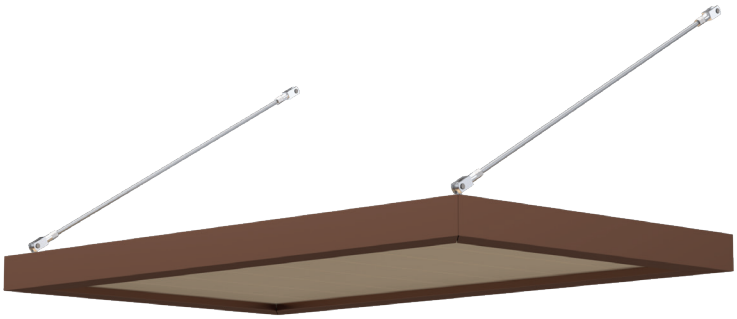
STEEL CANOPIES



* Optional 2-Tone Color Shown Above

Personnel door canopies keep you covered. This economical, attractive overhead protection is built strong and designed to withstand the elements.

CONSTRUCTION

- Economical and attractive overhead protection from the elements
- Specifically designed for high wind load and heavy snow load areas
- 24-gauge flat soffit and integral gutter with rear-mounted drains
- 16-gauge galvanized internal frame for 3' and 4' projection, and 14-gauge galvanized internal frame for 5' projection
- 5/8" diameter rod ends 4140 hot rolled annealed (HRA) [F.y = 125 ksi]
- 16-gauge telescoping support channels mount behind wall panel between girts, mounting clips and fasteners included
- 3/4" dia. galvanized pipe hangers with adjustable rod ends

DESIGN

- Incorporates a flat soffit and an integral gutter drain
- Rear mounted drains release water against the building to the outside of door jambs
- Can be installed in conjunction with any wall panel type or masonry construction
- Long continuous run applications available

FINISH

- Galvalume steel
- Silicone polyester (standard), Kynar® and powder coated finish options available in a wide range of colors
- Custom color matching available
- Single color (standard) or two tone (contrasting gutter/ fascia and soffit)

SIZES

- Standard sizes for single door (4'6" x 4'0") and double door (7'6" x 4'0"); also available in 3' and 5' projections
- Canopies are available in custom lengths up to 10'
- Can be mulled together for continuous run applications. Mullions and secondary gutter provided when specified

OPTIONS

- Masonry mount (anchors by others)
- Downspouts
- Front mounted drains (rear is standard)
- LED light kits & retrofit kits

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CANOPY SPECIFICATIONS

WIND LOAD *(IBC 2012, 2015, 2018, 2021 & 2024)*

Projection	Ultimate Wind Speed [Exp. B]	Ultimate Wind Speed [Exp. C]	Ultimate Pressures (psf)
3 ft.	350 mph	316 mph	-317 [Uplift]
			240 [Downward]
4 ft.	262 mph	237 mph	-178 [Uplift]
			180 [Downward]
5 ft.	210 mph	190 mph	-115 [Uplift]
			143 [Downward]

SNOW LOAD *(On the canopy, not ground)*

3' Projection - Max = 144 psf

4' Projection - Max = 108 psf

5' Projection - Max = 86 psf

Wind loads shown are uniform loads on a 4'- 6" wide canopy with 2 braces.

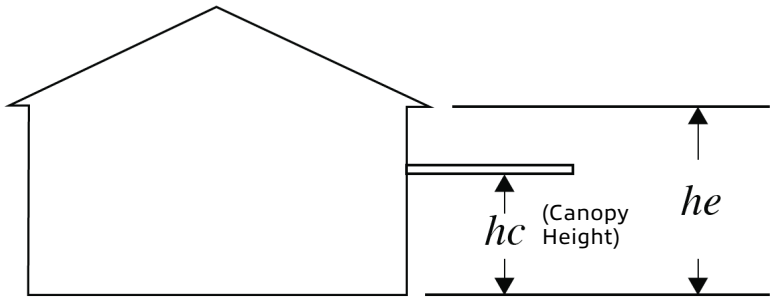
Wind loads calculated per ASCE 7-16 Section 30.11 and ASCE 7-22 Section 30.9-1, using net pressure coefficients on attached canopies considering contributions from upper and lower surfaces.

- Topographic factor, Kzt = 1.0
- Wind directionality factor, Kd = 0.85
- Ground elevation factor, Ke = 1.0
- Net pressure coefficient, GCp = -1.4 for Uplift pressure & +0.9 for Downward pressure
- Velocity pressure coefficient, Kz = 0.85 for Exposure – B & 1.04 for Exposure – C
- Mean building eave height, he:
  - Max 60' above ground for Exposure – B
  - Max 40' above ground for Exposure – C

Snow loads shown are uniform loads on a 4'-6" wide canopy with 2 braces.

Snow loads shall be determined by engineer utilizing applicable codes and project-specific design criteria.

NOTE: *Wider canopies, more stringent loading requirements and customer engineering analysis is available upon request.*



ELEVATION

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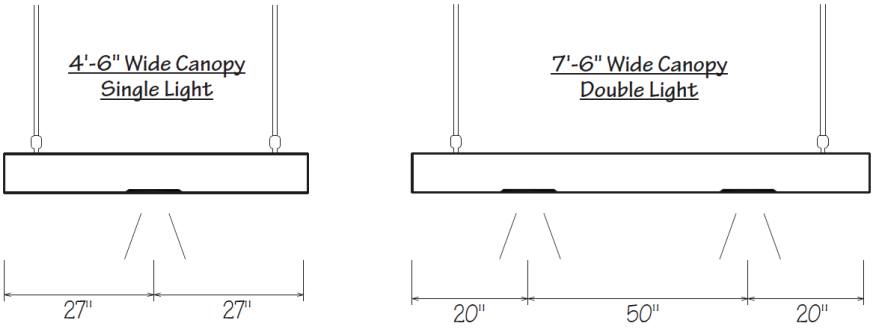
LED LIGHTED CANOPIES

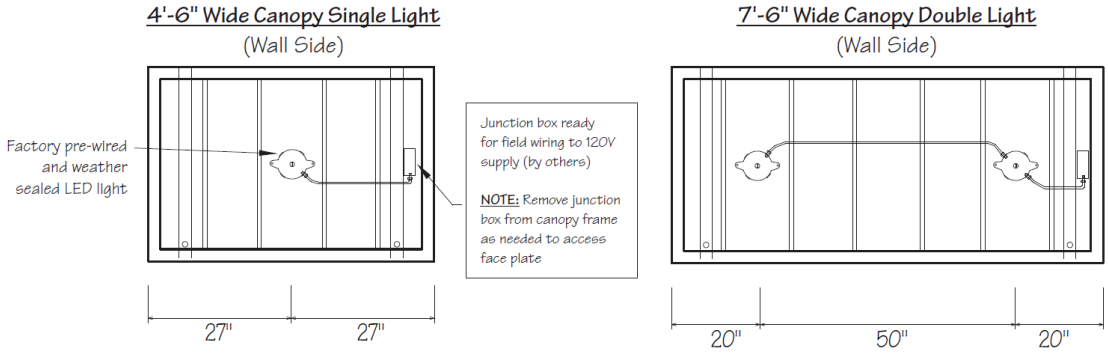
CONSTRUCTION

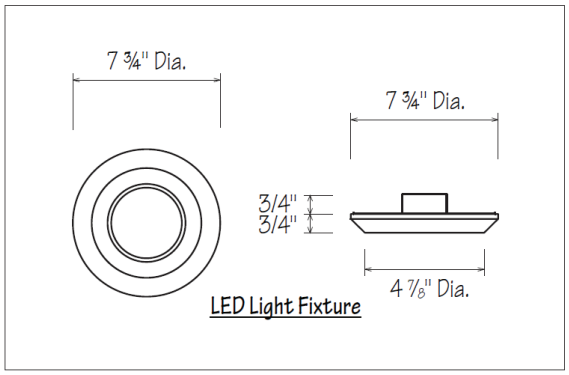
All Steel Canopy Features & Specifications Plus:

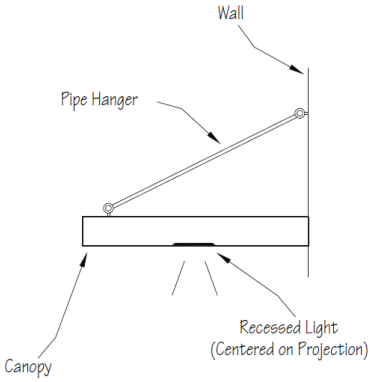
- Single door contains one LED light in the center of soffit panels, double door contains two LED lights 20" from the edge width
- Wet rated LED downlight provides uniform luminance(120V, 780 lumens, 4000K color temperature) from a low profile flat lens
- LED lifetime of 50,000 hours
- ENERGY STAR-certified luminaire contains no mercury or lead
- Precision molded lens features high transmission polymer with UV stabilized protecting film
- Fixture mounted in soffit of canopy and sealed to top-mounted junction box
- Electrical contractor must ensure of fit, wiring and proper mounting in the electrical junction box. This includes all applicable national and local codes.

TECHNICAL SPECIFICATIONS









INSTALLATION INSTRUCTIONS

METAL PANEL APPLICATIONS

Note: *Additional support columns and pipe hangers may be required for larger canopies and/or higher wind loads.*

STEP 1: Install Vertical Support Columns
Note: Install vertical support columns to girt framing. (Girt spacing max 6'0")
1A – Center canopy over door. If necessary, shift canopy toward door knob so that pipe hangers penetrate in the high or low areas of panel. When the canopy is positioned at the desired location match drill 11/16" holes through pre-drilled canopy angle holes. (These holes are aligned with the center of the zee rafter holes used for the pipe hangers at the wall attachment angle of the canopy.)

1B – Align centerline of support columns with 11/16" holes drilled in step 1.a and centerline of zee rafters on canopy between girts. Make sure support columns are perpendicular to top and bottom girt. Attach mounting clips to each end of telescoping support columns with (4) #12 SDS per clip. Slide adjust columns to proper length in order to fit between girts (6' maximum). Secure columns to girts with (4) #12 SDS per clip. Install (2) #12 SDS in the web and (1) in each flange at top and bottom of overlap in channels.

STEP 2: Install Lower Support Bolts
2A – Match drill through previously drilled holes in wall panel through centerline of support columns.

2B – With canopy repositioned and matching holes in canopy and wall panel aligned, attach canopy to wall panel and support column using 5/8" x 7" bolt with washer. (If hole penetrates the high rib of the panel, use PVC spacer between wall panel and support column.) (Typical each side.) ***Note****: Before tightening bolts, apply sealant at penetration points.*

STEP 3: Attach Pipe Hangers to Canopy
3A – Thread 5/8" nut on the short rod end, slide on 5/8" washer and insert into hole on top of canopy rafter. Secure with 5/8" nuts and washers on underside of rafter. (Typical for each pipe hanger.)

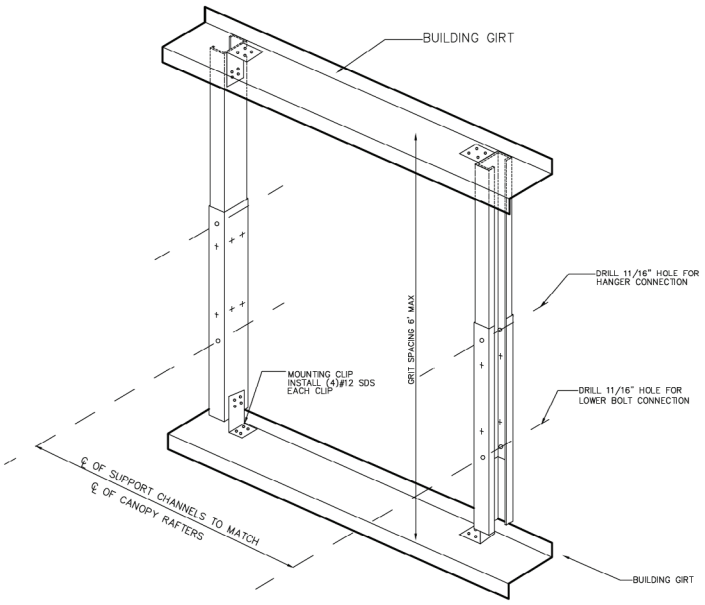
STEP 4: Attach Pipe Hangers to Wall
4A – Locate the elevation at the point where long rod end will penetrate the wall. Drill 11/16" hole through panel and support columns. Thread 5/8" nut on long rod end and slide on 5/8" washer. Insert long rod through wall panel and support columns. Secure at support column with 5/8" nuts and washers. ***Note***: *Before tightening bolts, apply sealant at penetration points.*

STEP 5: Adjust Pitch of Canopy
5A – Adjust pipe hanger yoke ends, and/or short rod end at rafter, so the cannopy slopes back toward wall 1/2" to 1" (for rear mounted drains).

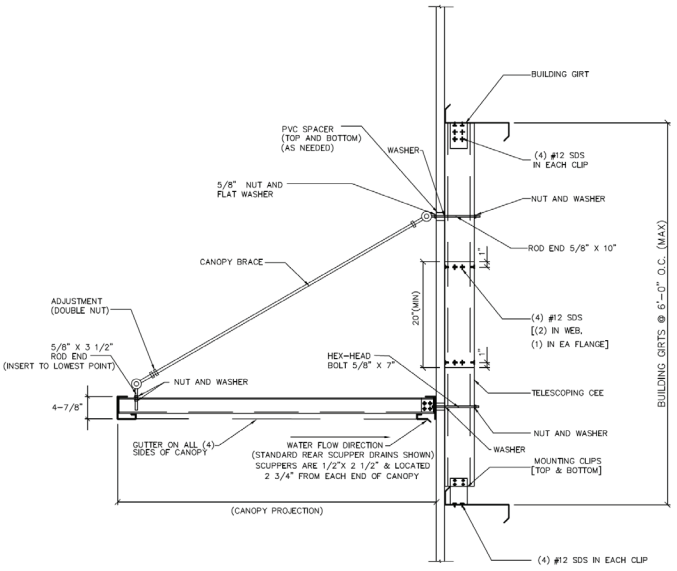
Metal Wall Install Hardware

(One hardware kit per hanger)
(1) Pipe Hanger
(1) 3-1/2" X 5/8" Rod End
(1) 10" X 5/8" Rod End
(1) 2pc Telescoping Channel
(2) 12ga Channel Clips
(24) #12 X 3/4" Screws
(1) 7" X 5/8" Hex Bolt
(5) 5/8" Nuts
(6) 5/8" Washers
(2) PVC Spacers

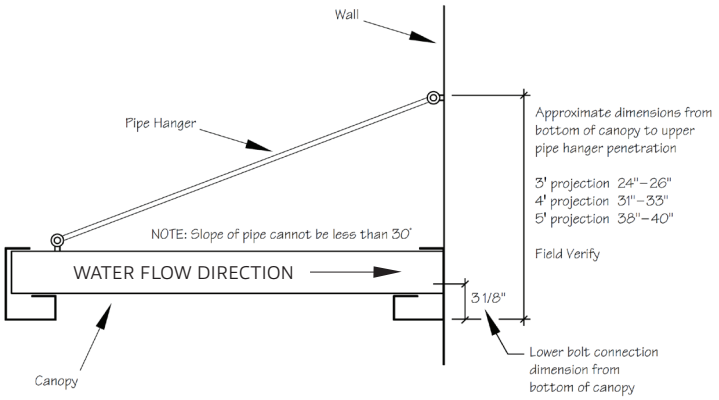
SUPPORT COLUMNS INSTALL:



METAL WALL INSTALL:



HANGER PENETRATION DIMENSIONS:



INSTALLATION INSTRUCTIONS

MASONRY APPLICATIONS

Note: *Additional pipe hangers may be required for larger canopies and/or higher wind loads.*

STEP 1: Install Lower Support Bolts
1A–Center canopy over door. Mark well at locations where pre-attached canopy rafter angle holes meet wall.

1B–Drill holes in masonry and install wall anchors sized to accept 5/8" bolts and appropriate design for masonry type.
Note*: Wall anchors by others.*

1C– Insert 5/8" x 3" bolt with washer through canopy angle and into wall anchor.

STEP 2: Attach Pipe Hangers to Canopy
2A–Thread 5/8" nut on one end of the pipe hanger rod end, slide on washer and insert into hole on top of canopy rafter to lowest point.

2B–Secure with 5/8" nuts and washers on underside of rafter.

STEP 3: Attach Pipe Hangers to Wall
3A–Locate elevation at the point where opposite rod end will penetrate the wall.

3B–Drill holes in masonry and install wall anchors sized to accept 5/8" bolts and appropriate design for masonry. ***Note****: Wall anchors by others.*

3C–Insert 5/8" x 3.5" thread rod end into wall anchor.

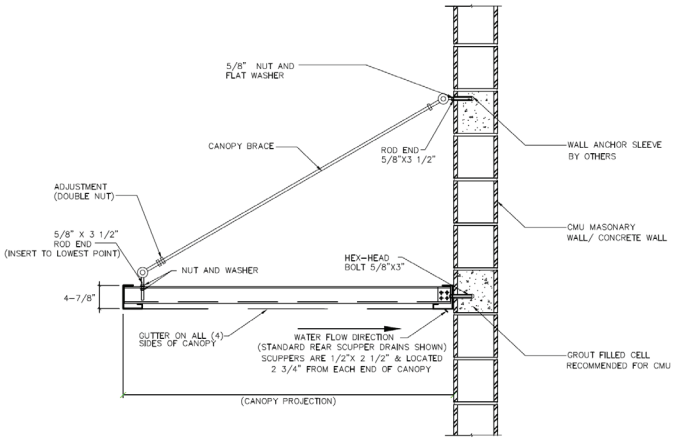
3D–Attach rod end to pipe hanger with clevis pin.

STEP 4: Adjust Pitch of Canopy
4A–Adjust pipe hanger yoke ends, so the canopy slopes back toward wall 1/2" to 1" (for rear mounted drains).

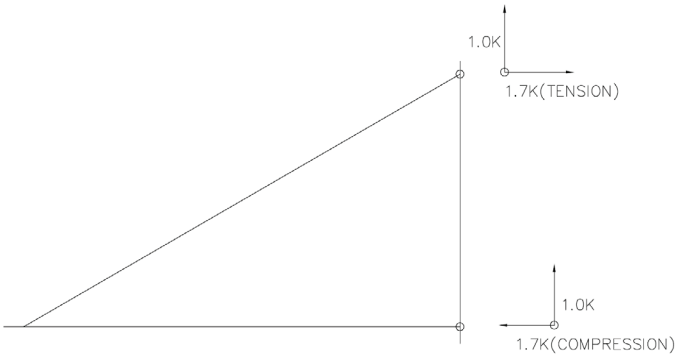
Masonry Wall Install Hardware

(One hardware kit per hanger)	(1) 3" X 5/8" Hex Bolt
(1) Pipe Hanger	(4) 5/8" Nuts
(2) 3-1/2" X 5/8" Rod Ends	(4) 5/8" Washers

MASONRY WALL INSTALL:

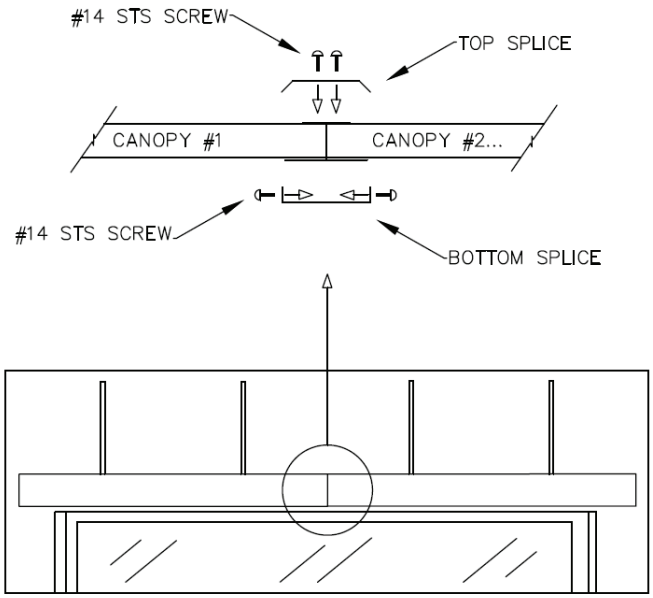


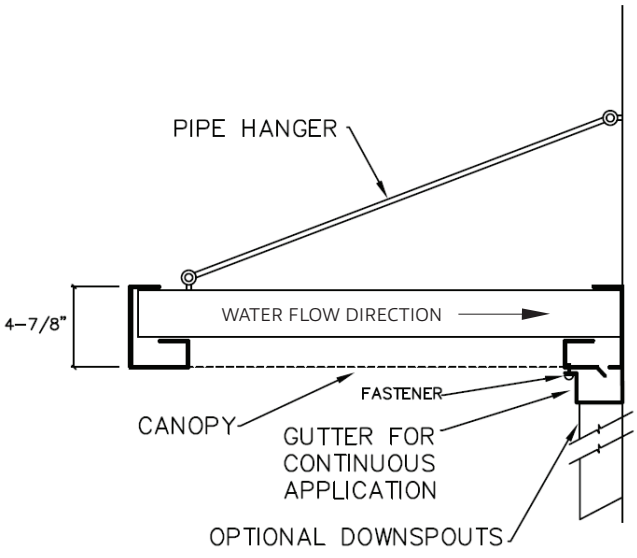
WALL REACTIONS:



NOTE:
THE REACTIONS SHOWN ARE FOR SNOW LOAD. FOR WIND LOAD THE REACTIONS WILL ACT IN THE OPPOSITE DIRECTION.

MULTIPLE CANOPY INSTALLATION:





MBCI ARCHITECTURAL COLOR CHART

SIGNATURE® 200 (Standard Color Pricing)

Siliconized Polyester

POLAR WHITE
(*POLYESTER*)

HIGH GLOSS WHITE

WHITE

BRIGHT WHITE

HAWAIIAN BLUE

COBALT BLUE

LIGHT STONE

SADDLE TAN

DESERT SAND

COFFEE BROWN

BURNISHED SLATE

ASH GRAY

DEEP GRAY

CHARCOAL GRAY

EVERGREEN

IVY GREEN

SCARLET RED

RUSTIC RED

WINE RED

TRUE BLACK

SIGNATURE® 300 (Special Color Pricing)

Polyvinylidene Fluoride (PVDF) | Low Gloss

SNOW WHITE

BONE WHITE

PACIFIC BLUE

HARBOR BLUE

ALMOND

BROWNSTONE

MEDIUM BRONZE

MIDNIGHT BRONZE

TUNDRA

SLATE GRAY

STORM GRAY

CLASSIC GREEN

BRITE RED

COLONIAL RED

MIDNIGHT BLACK

COPPER METALLIC

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