

SELECT OPEN ROLL AWNING



INSTALLATION MANUAL



Out With the Old, In With the View

AWNING COMPONENT/ATTACHMENT DETAIL

To plan for the installation of a Select Awning, the following detail is provided. Using the table below, confirm the number of arms and number of attachment brackets based on the width and projection of your awning.

Select				
Projection	up to 18'	>18'-20'	>20'-22'	> 22'- 23'
6'11"				
Arms	2	2	4	4
Wall/Ceiling Bracket	4	4	8	8
8' 6"				
Arms	2	2	4	4
Wall/Ceiling Bracket	4	4	8	8
10'2"				
Arms	2	2	4	4
Wall/Ceiling Bracket	4	6	8	8
11'9"				
Arms	2	2	2	3
Wall/Ceiling Bracket	4	6	6	6
13'5"				
Arms	2	2	2	3
Wall/Ceiling Bracket	4	6	6	6



Wall/Ceiling Bracket

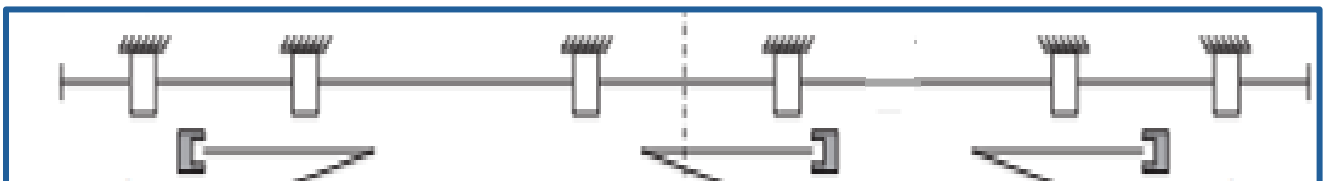
2 ARM AWNING

A 2 Arm awning will require a 4-bracket attachment or a 6-bracket attachment, depending on the size of the awning, as detailed in the component chart above. For larger awnings, the two additional brackets are placed as indicated by the arrows below.



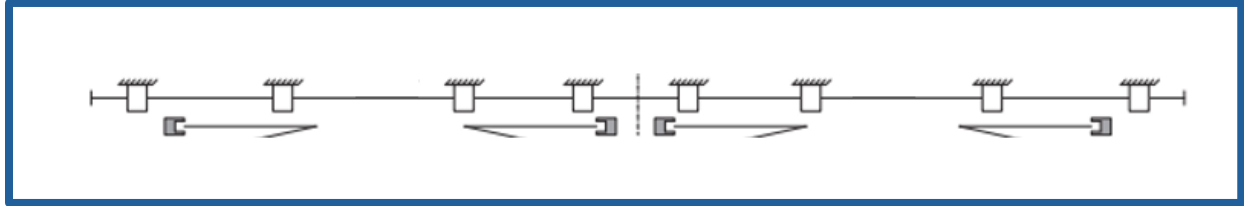
3 ARM AWNING

A 3 Arm awning will require six bracket attachments as detailed in the component chart, with placement as shown in the drawing below.



4 ARM AWNING

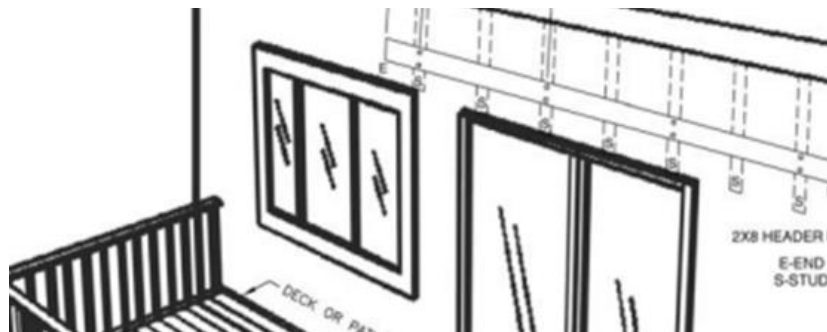
A 4 Arm awning will require eight bracket attachments as detailed in the component chart, with placement as shown in the drawing below.



BRACKET ATTACHMENT

For the best functionality of the awning and the highest level of safety, Polar Shades recommends the use of the Polar Shades extruded aluminum ledger board or a pressure treated wood ledger board. Polar Shades extruded aluminum powder coated (color match to awning hardware) ledger board sections are available to avoid the maintenance associated with a wood ledger board. The aluminum extruded sections are ½" thick, 7" in height and available in 3' and 5' sections. The sections can be placed end to end for full width coverage or can be placed only in areas where awning bracket attachment is needed.

The use of a ledger board enables continual secure attachment of the awning to the wall studs along the full width of the awning, in a manner that is not readily accessible without a ledger board due to the required, precise positioning of the awning brackets. With a ledger board firmly secured to wall studs, the ledger becomes a strong attaching surface for the exacting attachment of awning brackets as shown in the drawing below.



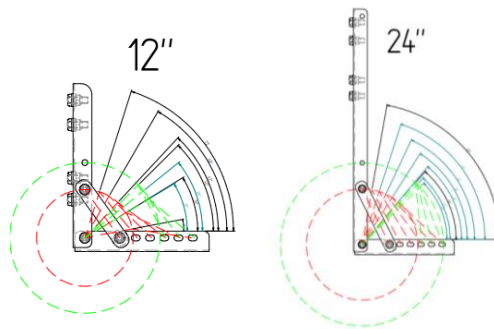
It is important to note that attaching screws are not included with the awning shipment. The installer must note the attaching surface and purchase the appropriate screws for attachment of the ledger board and the awning brackets.

- For installation with roof mount brackets and a ledger board, the installation can be secured to the roof at rafters (similar to wall attachment to studs). The roof mount brackets are used to secure the ledger board. Awning wall brackets will attach to the ledger.

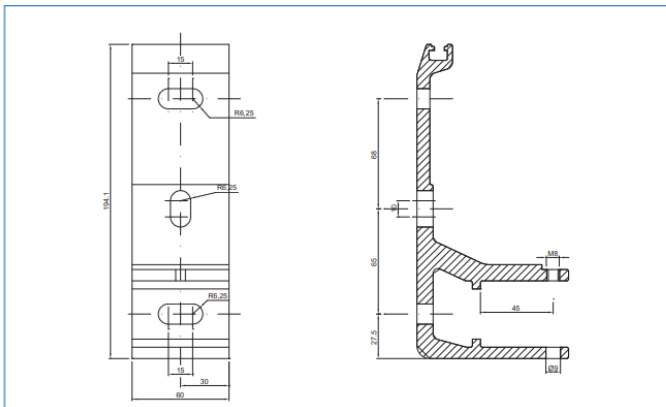
- It is advisable to mount the roof mount brackets to the eave extension of the roof thus avoiding the possibility of penetration of the roof structure and potential for ceiling leaks.
- The roof mount bracket attachment should be sealed to avoid moisture penetration. See picture showing roofing cement below the bracket and over the attaching holes as well.



- Once the roof mount brackets are installed to the roof, adjust the roof mount bracket angle so that the back of the bracket is completely vertical.
- The Select roof mount bracket angle options are:
 - 12" > 72°-60°-47°-45°-39°-32°-31°
 - 24" > 80°-72°-66°-58°-50°-49°-47°-45°



- Attach awning wall brackets to the roof mount bracket or to the ledger.



The charts below provide guidelines for direct bracket attachment to various surfaces in the event that a ledger board is not used.

Types of anchors based on wall composition

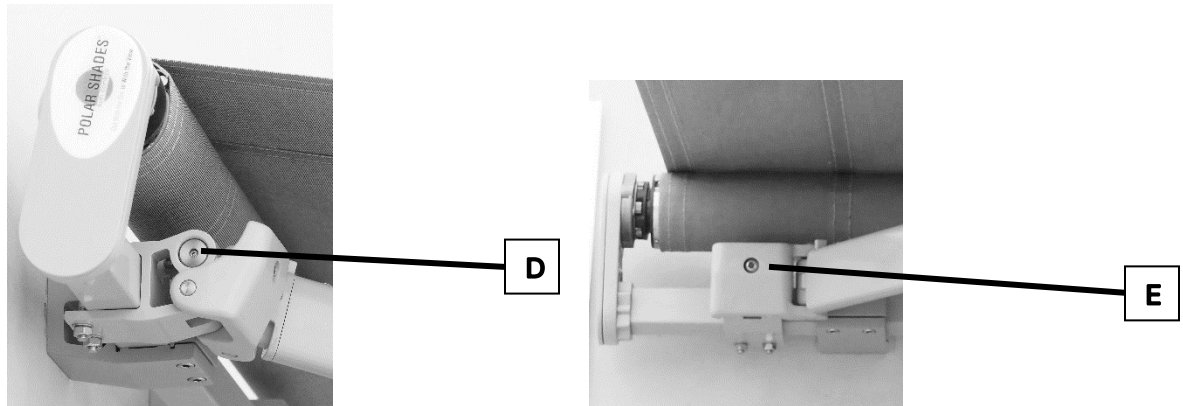
Extraction load on anchors (KN)	
Hilti HST 	CONCRETE CRACKED CONCRETE NATURAL HARD STONE
Hilti HSA 	CONCRETE NATURAL HARD STONE
Hilti HIT-HY 150 with HAS 	CONCRETE
Hilti HIT-RE 500 with HAS 	CONCRETE NATURAL HARD STONE FULL BRICK WOOD
Hilti HIT-HY 50 	AUTOCLAVED AERATED CONCRETE FULL BRICK WOOD
Hilti HIT-HY 20 	HOLLOW BRICK

Anchoring Process

MECHANICAL ANCHOR		CHEMICAL ANCHOR	
	1° Drill a hole suitable for the anchor		1° Drill a hole suitable for the anchor
	2° Pay special attention to the depth of the hole		2° Pay special attention to the depth of the hole
	3° Clear the hole of dust and fragments (ideally using compressed air)		3° Clear the hole of dust and fragments with a brush
	4° Install the anchor		4° Remove residual dust using compressed air
	5° Tighten up the recommended tightening torque (see Hilti General Catalogue)		5° Inject chemical adhesive
	6° Final configuration		6° Introduce and adjust anchor, leaving it for the necessary rest time before introducing the plate (see product box)
			7° Position the plate and tighten to recommended tightening torque after "T cure" time (see Hilti General Catalogue)

Awning installation steps:

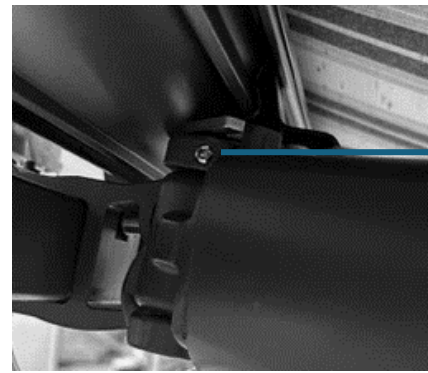
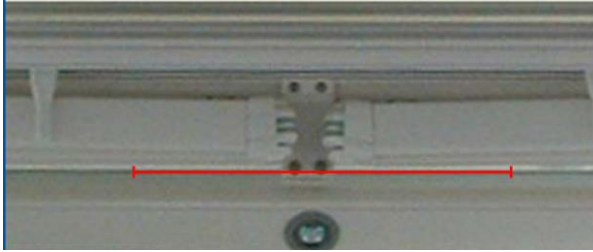
- 1) Using a level and string, mark the position for the bracket holes on the wall or ceiling.
- 2) Secure the brackets to the wall or ceiling.
- 3) Insert the awning square bar (with awning attached) into the brackets and secure screws.
- 4) If awning is motorized, connect to power, if manual, use crank to extend the awning.
- 5) The Select Awning can be set with a pitch between 5 and 60° as follows:
 - a. Loosen screw (D) using a 6 mm Allen wrench.
 - b. Adjust screw (E) using a 3 mm Allen wrench to raise or lower the awning pitch.
 - c. After reaching the desired pitch, tighten screw (D)
 - d. Repeat the process on each arm.



Using a level, check the front bar to be sure it is level. If the front bar is not level, make further adjustments to the arms (loosen screw D, adjust screw E, tighten screw D)



- 6) Extend and retract the awning a couple of times to confirm that alignments are correct including alignment of elbows. If the retracted elbows are out of alignment, elbow screw F (on both sides) can be adjusted with a 3 mm allen wrench.



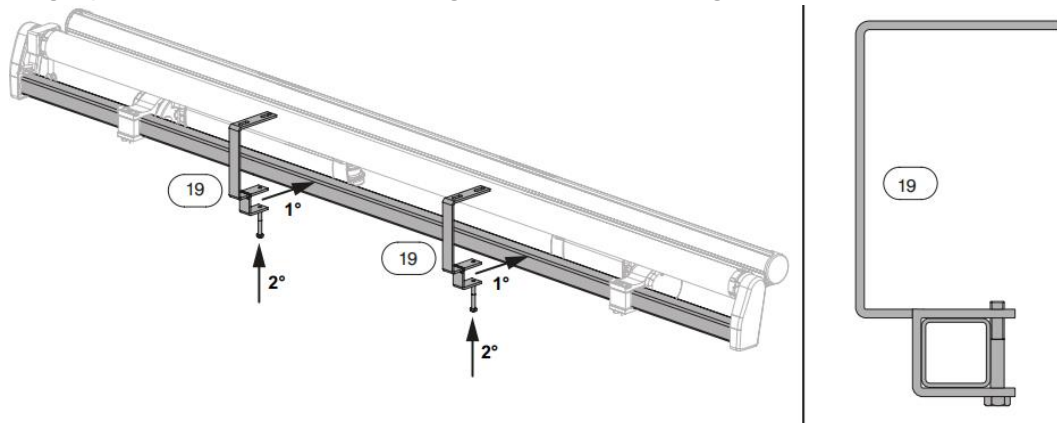
F

- 7) Following the remote or wall switch programming instructions, set the front and back limits confirming that the front bar retracts to proper positioning, making adjustments as needed.

ADD ON OPTIONAL HOOD

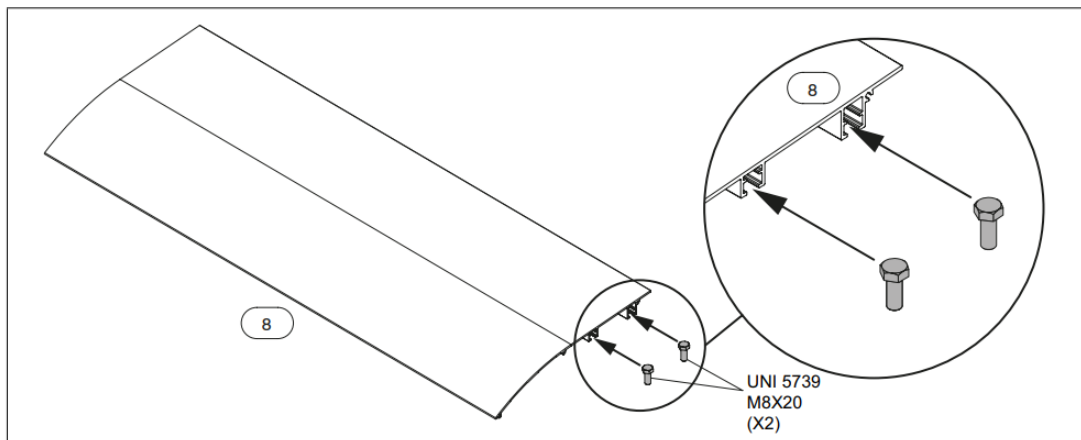


When an add on optional hood is specified, the hood brackets must be attached to the awning square bar, BEFORE the awning is installed following detail below:

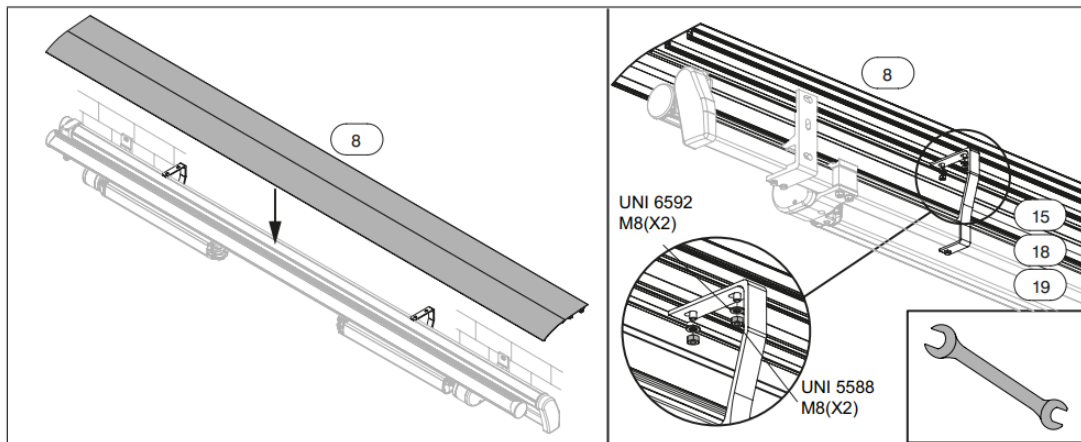


Slide the bottom bar into the opening of the hood bracket and secure the bolts to hold firmly in place.

Using the provided hood to bracket bolts, slide the bolts into the hood bottom channels and line the bolts up with the hood bracket holes for insertion into the brackets, securing the bolts with the provided nuts as detailed below.

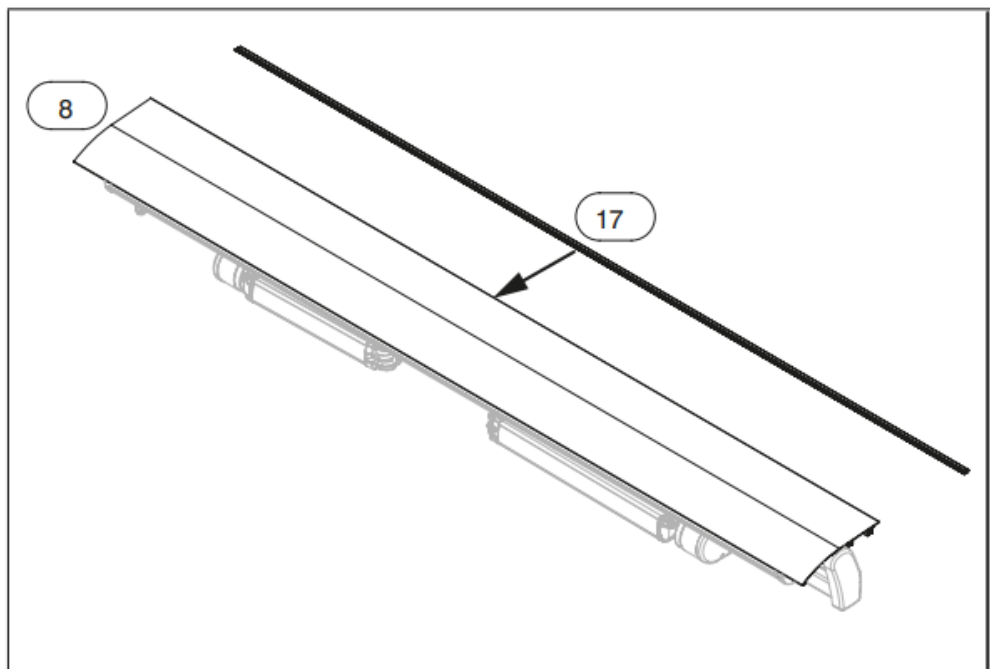


Pic. 6



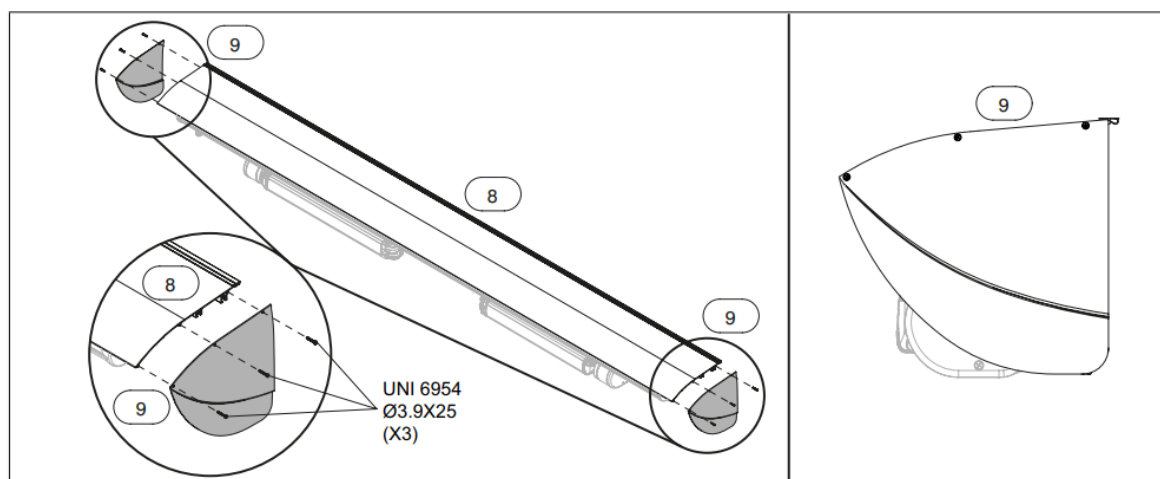
Pic. 7

Attach the hood gasket to the back side of the hood



Pic. 8

Using the provided endcap bolts, secure the end caps as detailed below.



Pic. 9

Continue with awning installation as detailed above.