

PREMIUM SEMI-CASSETTE AWNING



INSTALLATION MANUAL



Out With the Old, **In With the View**

AWNING COMPONENT/ATTACHMENT DETAIL

To plan for the installation of a Premium 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.

Premium				
Projection	up to 18'	>18'-20'	>20'-21'	> 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

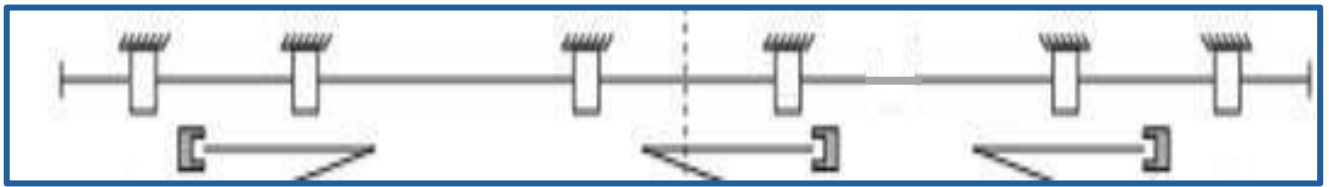
2 ARM AWNING

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 2 additional brackets are placed as indicated by the arrows below.



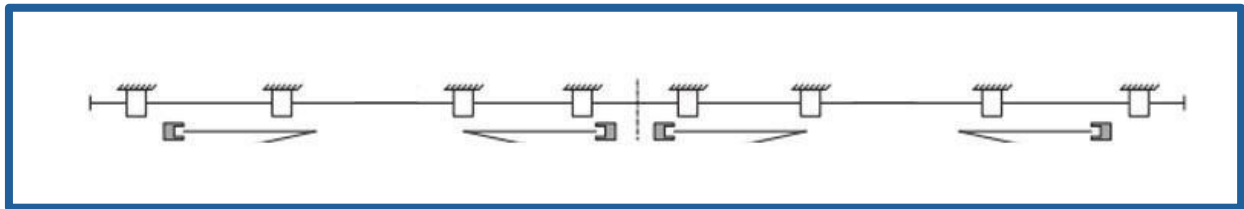
3 ARM AWNING

A 3 Arm awning will require 6 bracket attachments as detailed in the component chart, with placement as shown in the drawing below.



4 ARM AWNING

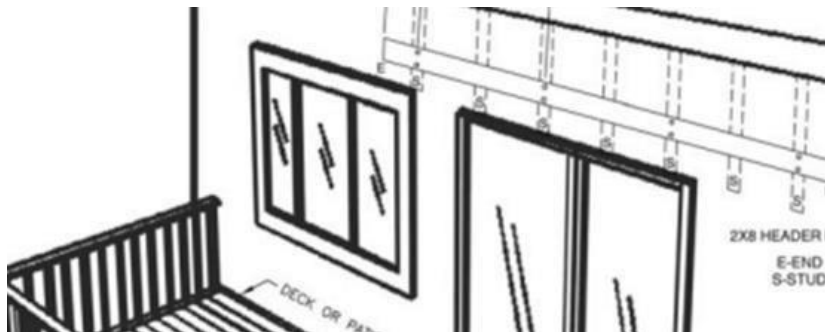
A 4 Arm awning will require 8 bracket attachments as detailed in the component chart, with placement as shown in the drawing below.



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 ledger board.

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 exact attachment of awning brackets as shown in the drawing below.



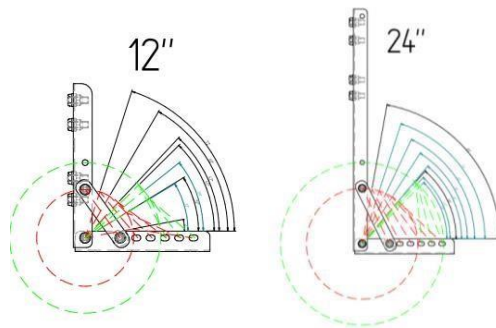
It is important to note that attaching screws are not included with the awning shipment. The installer must note the attaching surface and purchase the appropriate screws for attachment of the ledger board and the awning brackets.

- 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 attach the ledger board, and the 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.

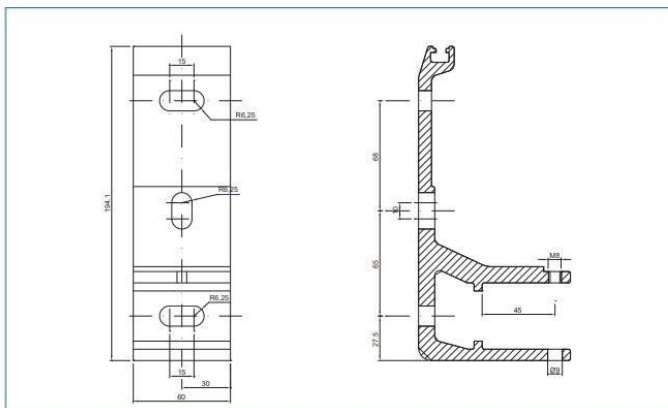
- The roof mount bracket attachment should be sealed to avoid moisture penetration. See picture showing roofing cement around the bottom of the bracket and over the attaching holes as well.



- Once the roof mount brackets are installed, adjust the roof mount bracket angle so that the back of the bracket is completely vertical.
- The Premium 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 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.

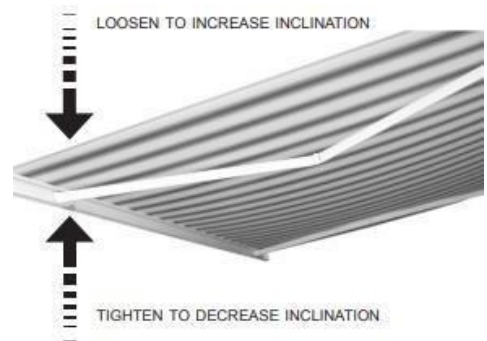
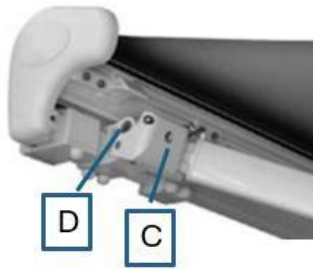
Extraction load on anchors (KN)		
Hilti HST		CONCRETE CRACKED CONCRETE NATURAL HARD STONE
Hilti HSA		CONCRETE NATURAL HARD STONE
Hilti HIT-HY 150 with HAS		CONCRETE
Hilti HIT-RE 500 with HAS		CONCRETE NATURAL HARD STONE FULL BRICK WOOD
Hilti HIT-HY 50		AUTOCLAVED AERATED CONCRETE FULL BRICK WOOD
Hilti 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 (including the awning) into the brackets.
- 4) The Premium Awning can be set with a pitch between 5 and 50* as follows:
 - a. With the awning open, while supporting the front bar, loosen screw D using a 3 mm Allen wrench and adjust the screw (C) using a 6 mm Allen wrench until the desired inclination is achieved.
 - b. Repeat the process on each arm.



- 5) Once the desired pitch has been met, fix the position of the awning by tightening screw (D) using a 3 mm Allen wrench.
- 6) Retract the awning and confirm that the awning arms are aligned when the awning is retracted.



- a. If the elbows are out of alignment, locate the 2 grub screws I on both sides.
(see picture below). Loosen one grub screw and tighten the other to raise or lower the arm.



- 7) Extend and retract the awning a couple of times to confirm that the alignments are correct.
- 8) Following the remote programming instructions, set the front and back limits confirming that the front bar retracts to the semi cassette box in a completely closed position, adjusting as needed.