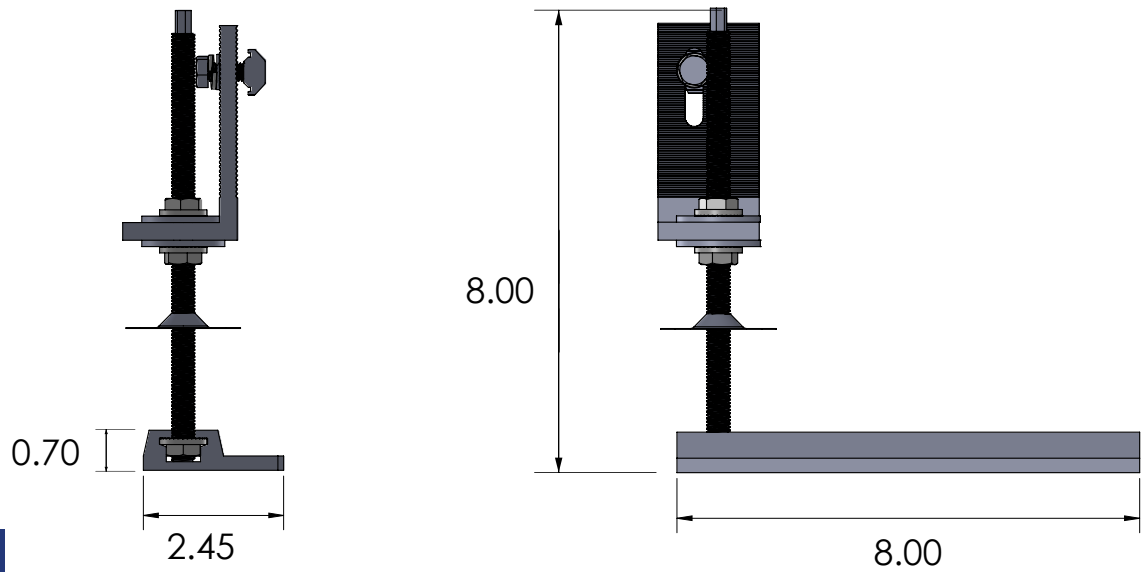


## VERSATILE Cement Tile Hook



Part #	Description
GR-HK-VT-4	4" Bolt for Flat Tile
GR-HK-VT-6	6" Bolt for Spanish Tile



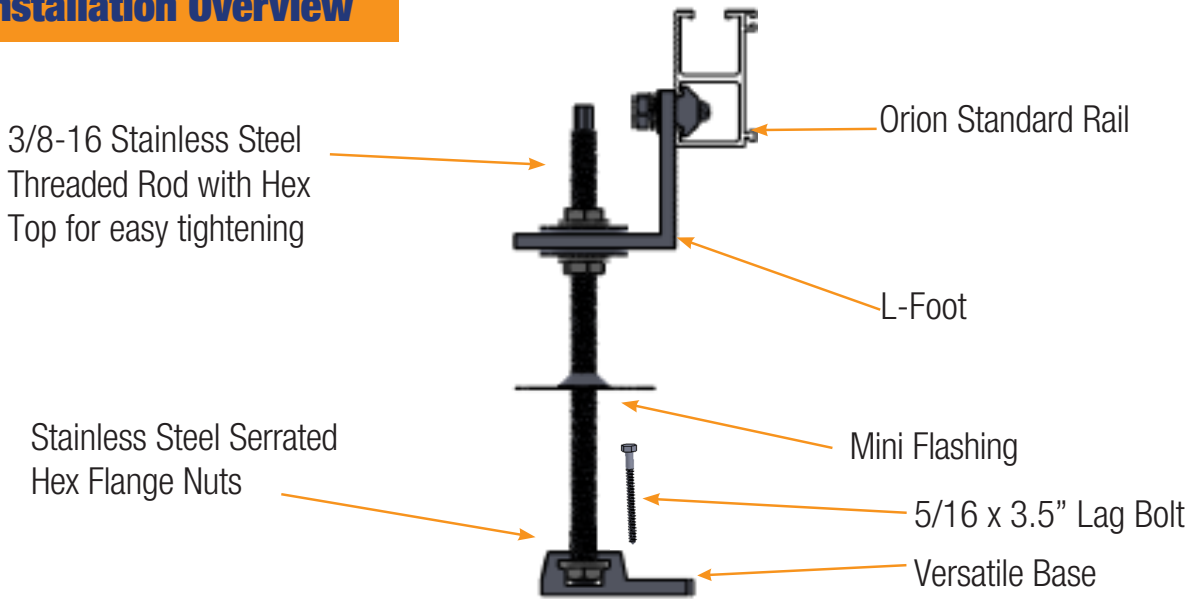
### Features:

- Weight: 1.19lbs
- Material: Aluminum 6063 T6
- Hardware Material: 300 Series Stainless Steel
- Wide range of adjustability, vertically and laterally.



## VERSATILE Cement Tile Hook

### Installation Overview

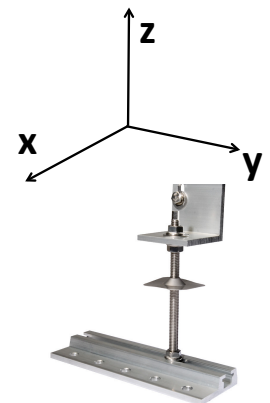


Hex Drive Bolt  
Detailed View



- Remove tile and locate rafters. Drill 1/4" pilot hole and backfill with sealant.
- Set base against back of next tile and secure with lag bolt.
- Adjust bolt along track to desired position.
- Drill 1/2" hole through tile that was initially removed. Ensure hole will line up with Versatile bolt.
- Set tile back into position with versatile bolt sticking through tile.
- Tighten bolt and add flashing and L-foot assembly to complete installation.

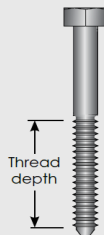
Ultimate Load Capacity (lbs)			
Part Number	X	Y	Z
GR-HK-VT-4	927.4	1079.4	559.7
GR-HK-VT-6	1079.2	508.1	778.5



\* Tested by third party testing agency.

Lag pull-out (withdrawal) capacities (lbs) in typical roof lumber (ASD)

	Specific gravity	5/16" lag screw* specifications per inch thread depth
Douglas Fir, Larch	.50	266
Douglas Fir, South	.46	235
Engelmann Spruce, Lodgepole Pine <sup>1</sup>	.46	235
Hem, Fir, Redwood (close grain)	.43	212
Hem, Fir (North)	.46	235
Southern Pine	.55	307
Spruce, Pine, Fir	.42	205
Spruce, Pine, Fir <sup>2</sup>	.50	266



Sources: American Wood Council, NDS 2005, Table 11.2a, 11.3.2A.

**Notes:**

- (1) Thread must be embedded in the side grain of a rafter or other structural member integral with building structure.
- (2) Lag bolts must be located in the middle third of the structural member.
- (3) These values are not valid for wet service.
- (4) This table does not include shear capacities. If necessary, contact a local engineer to specify lag bolt size with regard to shear forces.
- (5) Install lag bolts with head and washer flush to surface (no gap). Do not over-torque.
- (6) Withdrawal design values for lag screw connections shall be multiplied by applicable adjustment factors if necessary. See Table 10.3.1 in the American Wood Council NDS for Wood Construction.

\*Use flat washers with lag screws. t

<sup>1</sup>MSR 1650 f & higher

<sup>2</sup>E of 2 million psi and higher grades of MSR and MEL