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IronRidge
28357 Industrial Blvd.
Hayward, CA 94545

December 18, 2020
page 1 of 2

Attn: Mr. Corey Geiger, COO, IronRidge Inc.

Subject: IronRidge Flush Mount Standoff

Dear Sir:

This letter is a supplement to the standard letter for the IronRidge Roof Flush Mounting System to address the requirements for use with the IronRidge Standoff.

The IronRidge Standoff comprises a 0.16" thick aluminum plate base with a 1-1/2" diameter extruded aluminum post with interior ribs and three full height ferrules. The post is supplied in lengths of 4" & 7". It is connected to the base with 1/4" dia. bolts threaded into two of the ferrules. The remaining center ferrule is used for the attachment of the L-Foot to the top of the post. Full details can be seen on the attached drawings.

The baseplate is configured to accept up to (4) 5/16" dia. lag screws. Typically only two lag screws are installed into a supporting sloping timber roof joist or truss chord.

A structural analysis of the system shows that the critical item is either the strength of the 1/4" bolts connecting the baseplate to the post or the flexural strength of the baseplate.

The maximum allowable uplift (minimum) reaction is 464 lb for all slopes. The compressive (maximum) reactions into the plane of the roof are not critical. Table 1 shows the maximum allowable downslope (lateral) reactions.

The tabulated values include a Duration of Load Factor for Wind Loads, when applicable, and no further increase is permitted.

The loads are for an installation with the supporting joist or truss spanning parallel to the roof slope. They are not valid for installations into horizontal trusses or joists extending across the slope.

Table 1 - MAXIMUM ALLOWABLE LATERAL REACTIONS (lb)		
Roof Slope (deg)	4" Post	7" Post
5	576	576
10	538	225
15	351	184
20	299	159
25	274	132
30	240	118
35	207	109
40	187	104
45	174	99

The allowable loads are not to be exceeded by the applied loads which can be obtained from the online Design Assistant for the system at IronRidge.com. The Design Assistant covers a wide range of system configurations and loading and allows the user to customize the input to match the specific project conditions.

Please feel free to contact me at your convenience if you have any questions.

Respectfully yours,

Tres J. Warner, P.E.
Design Division Manager



12-18-2020

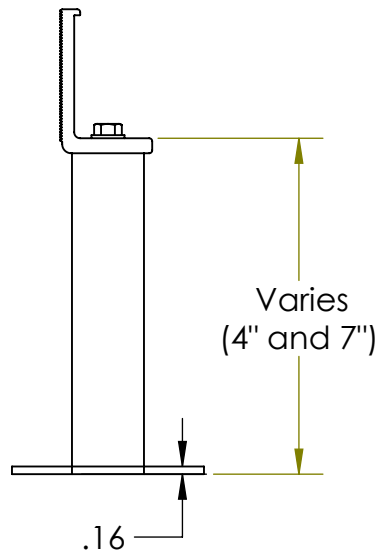
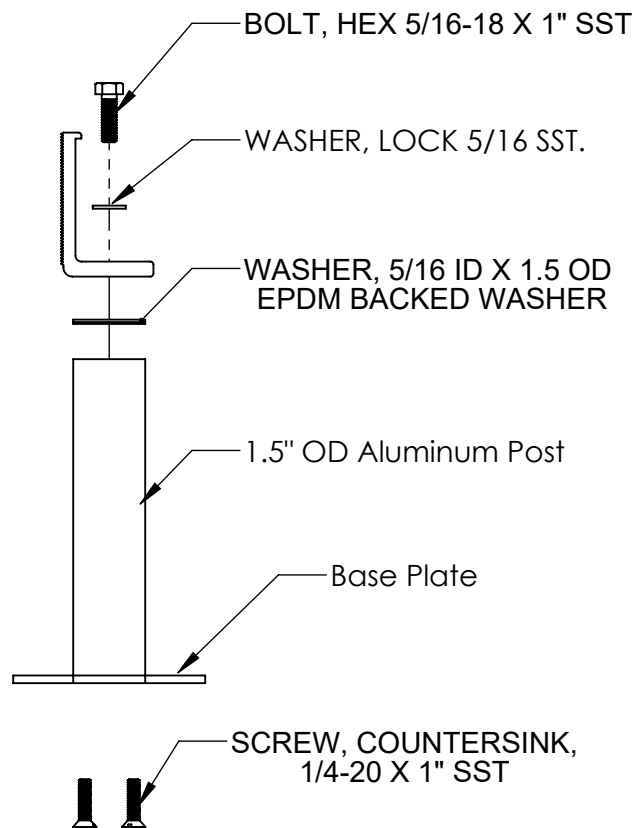
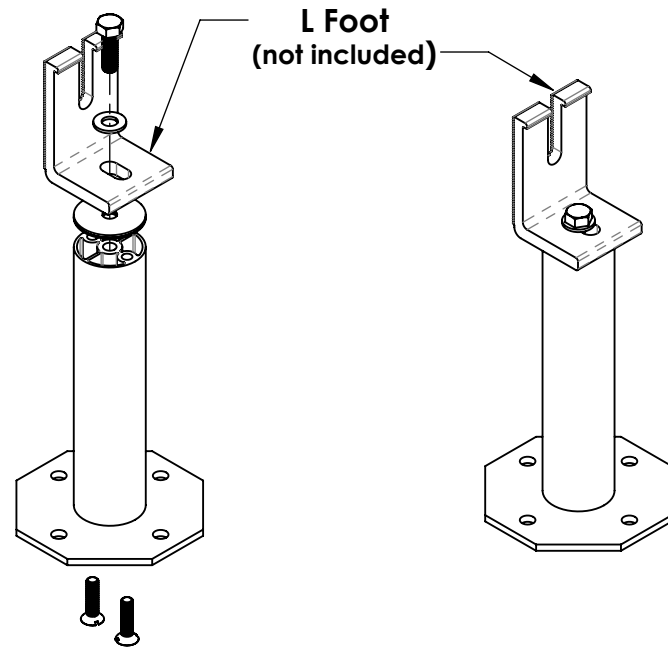
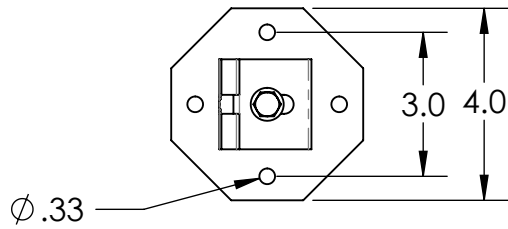
MATERIAL

FINISH

DIMENSIONS ARE IN INCHES.
TOLERANCES: .XX: +/- .030, .XXX: +/- .015
ANGLES: +/- 1.5°

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ZONE	REV.	REVISIONS	DESCRIPTION	DATE	APPROVED
	A		Initial Release	5-11-12	SM
	B		Updated L-foot and Post Heights	12-16-15	JMJ



DRAWN	SM	5-11-12
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		



Flush Standoff

COMMENTS:
DO NOT SCALE DRAWING

SIZE A	DWG. NO. EX-0003	REV. B
SCALE:1:4	WEIGHT:	SHEET 1 OF 1