28357 Industrial Blvd
Hayward, CA 94545
1-800-227-9523
IronRidge.com

Attn: Sean McDonald, CEO IronRidge Inc.
Date: August 26th, 2025

Re: QuickMount *CorruSlide* Allowable Capacity

This letter certifies the structural capacity of the QuickMount *CorruSlide* for use as a roof attachment with flush mounted PV solar systems on corrugated metal roofs. Corruslide is a three-piece aluminum mount that is attached to a corrugated metal roof using five (5) 1/4" self-tapping screws. Full assembly details and component dimensions are shown in Exhibit EX-0032.

The stated capacities in this letter apply to the assembly of *CorruSlide* when used with a compatible bracket with no consideration of the connection of the assembly to the above supported solar system. The capacities are based on mechanical load testing using a Universal Test Machine or by using structural design code-based analysis. The testing and analytical work conform to the following building codes and design standards:

- ASTM B 557-10, Standard Test Method for Tension Testing Wrought and Cast Aluminum and Magnesium-Alloy Products
- ICC-AC428, Acceptance Criteria for Modular framing Systems Used to Support Photovoltaic (PV) Modules
- AISI S100-16, North American Specification for the Design of Cold-Formed Steel Structural Members
- ADM 2020, The Aluminum Association Aluminum Design Manual

The structural capacities of *CorruSlide* are reviewed along the uplift and lateral load directions, on three different metal roof thicknesses as shown in Figure 1. The capacity ratings are based on structural load tests performed by PFS Laboratory Services, PFS Test report 14-122 R1 and by analytical methods. For each load test, *CorruSlide* was installed onto a sample roof deck composed of a 24 or 26 gauge galvanized metal panel. For 28 gauge metal roof thickness structural capacities of *CorruSlide* are reviewed analytically per AISI S-100-16.

For each load direction reported for the *CorruSlide* assembly shown in Figure 1, the tabulated nominal capacities based on mechanical load testing were the average of peak loads observed in the specified load direction. The witnessed ultimate failure mode was also documented accordingly. The calculated nominal resistances per analysis are defined by the referenced structural code for the most critical failure mode described in Table 1 below. The safety factor provided is associated with the reported failure mode and used to derive the allowable capacity for the specified load direction.

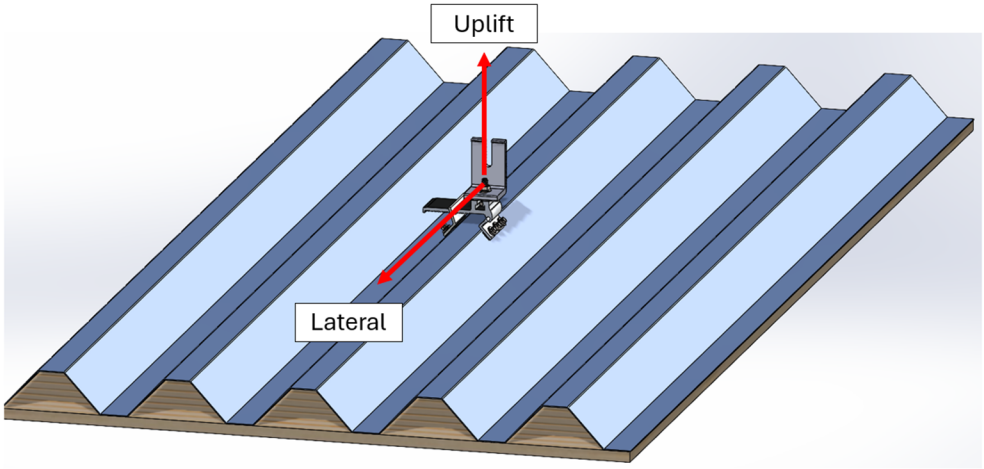

Figure 1: Applied Loading Directions for CorruSlide with L-Foot.

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Table 1: IronRidge CorruSlide Capacities [1]						
Corrugated Roof Gauge	**Load Direction [2] [3]**	**Critical Failure Mode**	**Safety Factor [4]**	**Avg Ultimate Capacity per Load Test (lb.)**	**Avg Ultimate Capacity per analysis (lb.)**	**Allowable Capacity (lb.) [5]**
24	Uplift	Base metal Shear	3.0	848	-	283
	Lateral	Base metal Shear	3.0	673	-	224
26	Uplift	Base metal Shear	3.0	731	-	244
	Lateral	Base metal Shear	3.0	496	-	165
28	Uplift	Base metal Shear	3.0	-	630	210
	Lateral	Base metal Shear	3.0	-	360	120

Table Notes:

(1) Capacities apply to the CorruSlide attached to 24, 26 or 28 Ga corrugated metal roof with a minimum yield stress of 33ksi, installed using (5) ¼" screws per the QuickMount *CorruSlide* Installation Manual.
(2) The uplift direction is upward perpendicular to the roof surface.
(3) The lateral direction is parallel to the roof surface, is applicable both down slope and cross slope and acts at the *Corruslide* interface with a compatible bracket. Lateral load shall be reduced for eccentricity of chosen solar attachment bracket.
(4) Safety Factor is associated with the respective failure mode recorded and determined by AISI S100-16
(5) Allowable Capacity is equal to Average Ultimate Capacity divided by its associated Safety Factor.
(6) The certified capacities in table 1 shall be used when all QuickMount provided components are installed with no generic replacement parts.

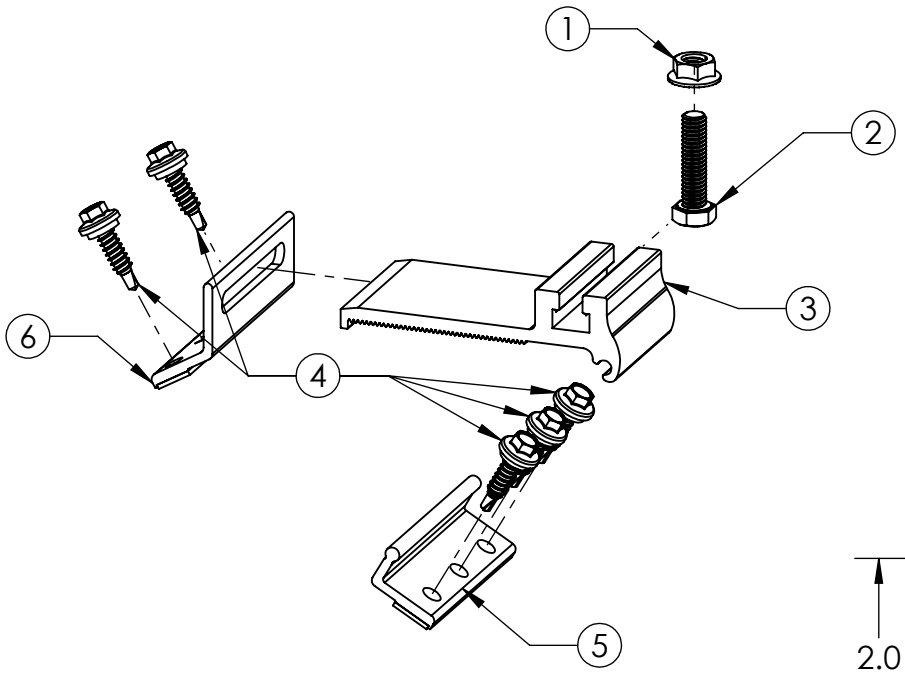
Please note the results of the test and analytical investigations described herein were based on load tests or analysis performed on *CorruSlide* as a stand-alone roof attachment. This evaluation excludes the structural adequacy of the chosen PV modules or underlying roof or decking members. For those, it shall be the responsibility of a registered design professional to verify the structural capacity and adequacy regarding the applied or resultant loads of the chosen array configuration. It is not the intention of this letter to rate or certify the selected system level performance or structural components other than those specifically delineated in this letter.

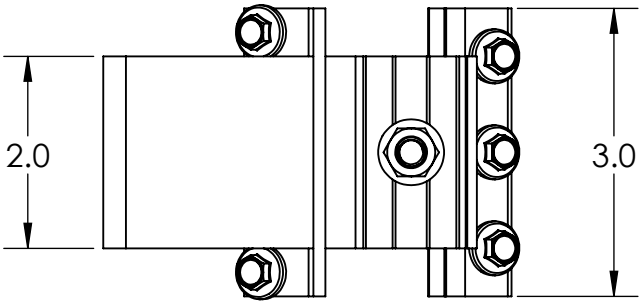
Sincerely,

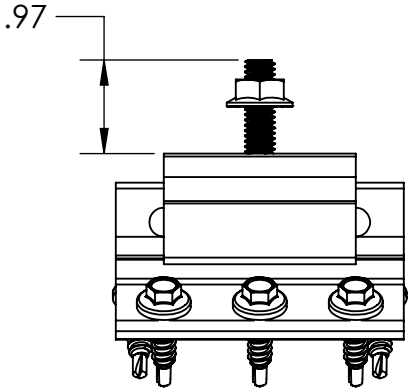
Matthew S Kuzila, PE

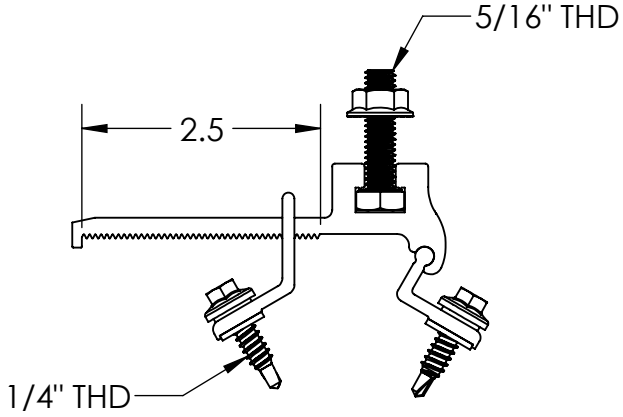
Digitally signed by Matthew S Kuzila
Reason: I am the author of this document
Date: 2025.08.26 15:34:01 -07'00'

EXHIBIT: EX-0032









ITEM NO	DESCRIPTION
1	SS SERRATED FLANGE LOCKNUT,SS
2	SS HEX HEAD CAP SCREW, FULL THREAD, 5/16-18 UNC
3	CORRUSLIDE-TOP-LONG
4	1/4"-14 X 7/8" DP1/LAP SS CAP HEAD W/ SEALING WASHER
5	CORRUSLIDE FLIPPER, ASSEMBLY
6	SLOT BRACKET, ASSEMBLY

IRONRIDGE

ASSY, QUICKMOUNT CORRUSLIDE

DWG. NO. EX-0032