



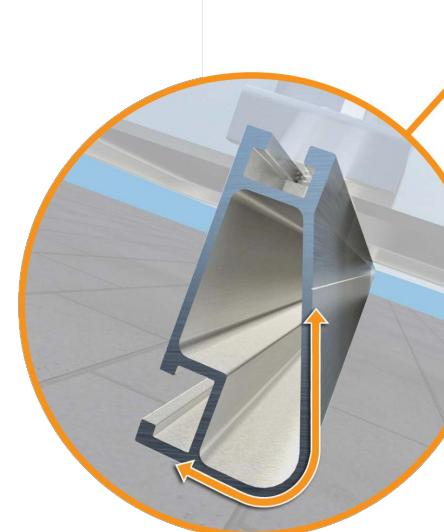
Tech Brief

## XR Rail Family

## Solar Is Not Always Sunny

Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame.

XR Rails are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof penetrations and the amount of installation time.



## Force-Stabilizing Curve

Sloped roofs generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime.

## Compatible with Flat &amp; Pitched Roofs



XR Rails are compatible with FlashFoot and other pitched roof attachments.

## Corrosion-Resistant Materials



All XR Rails are made of marine-grade aluminum alloy, then protected with an anodized finish. Anodizing prevents surface and structural corrosion, while also providing a more attractive appearance.

Tech Brief

## XR Rail Family

The XR Rail Family offers the strength of a curved rail in three targeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail to match.



XR10

XR10 is a sleek, low-profile mounting rail, designed for regions with light or no snow. It achieves 6 foot spans, while remaining light and economical.

- 6' spanning capability
- Moderate load capability
- Clear anodized finish
- Internal splices available



XR100

XR100 is the ultimate residential mounting rail. It supports a range of wind and snow conditions, while also maximizing spans up to 8 feet.

- 8' spanning capability
- Heavy load capability
- Clear & black anodized finish
- Internal splices available



XR1000

XR1000 is a heavyweight among solar mounting rails. It's built to handle extreme climates and spans 12 feet or more for commercial applications.

- 12' spanning capability
- Extreme load capability
- Clear anodized finish
- Internal splices available

## Rail Selection

The following table was prepared in compliance with applicable engineering codes and standards. Values are based on the following criteria: ASCE 7-10, Roof Zone 1, Exposure B, Roof Slope of 7 to 27 degrees and Mean Building Height of 30 ft. Visit IronRidge.com for detailed span tables and certifications.

Snow (PSF)	Wind (MPH)	Rail Span					
		4'	5' 4"	6'	8'	10'	12'
None	100						
	120						
	140						
	160						
10-20	100						
	120						
	140						
	160						
30	100						
	160						
40	100						
	160						
50-70	160						
80-90	160						

DRAWN DATE 12/3/2024

DRAWN BY SK

SHEET NUMBER R-04

PROJECT NAME & ADDRESS  
ZALMA ROSS5701 DEER POND LN,  
CAMP SPRINGS, MD 20746  
APN #: 06 5525176AHJ: PRINCE GEORGE'S COUNTY  
UTILITY: PEPCOSYSTEM DETAILS  
DC SIZE: 10.875 KW DC-(STC)  
AC SIZE: 7.250 KW AC  
(25) Q CELLS Q.TRON BLK M-G2+ 435  
(25) ENPHASE IQ8PLUS-72-2-US

REVISIONS

REV DESCRIPTION DATE

SHEET TITLE  
**RESOURCE DOCUMENTS**

DRAWN DATE 12/3/2024

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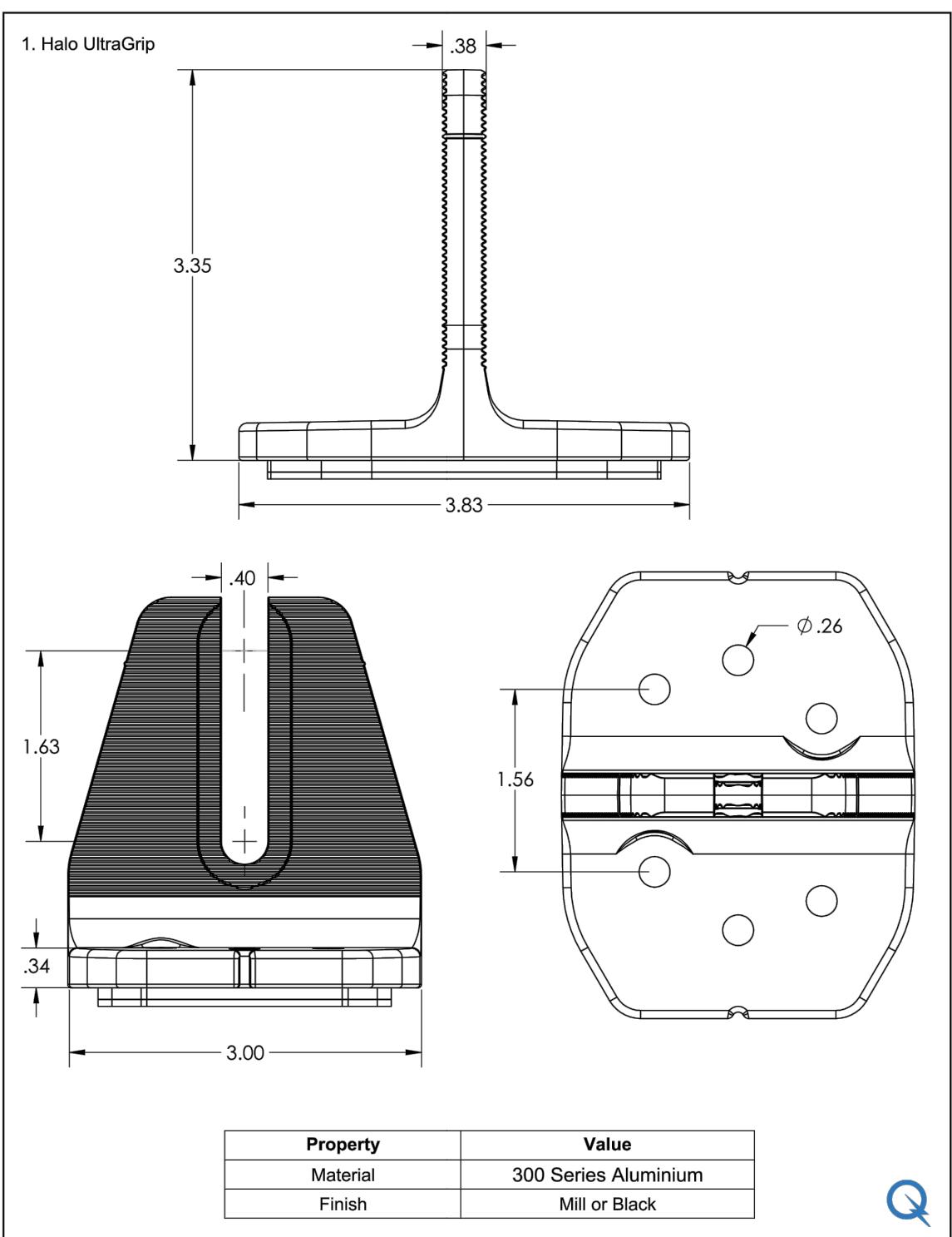
SHEET NUMBER R-04

**CONTRACTOR**UNITED CONSTRUCTION &  
RESTORATIONPHONE - 301-615-0392  
LIC. NO. - MD 111352

Cut Sheet

**QuickMount® Halo UltraGrip®**

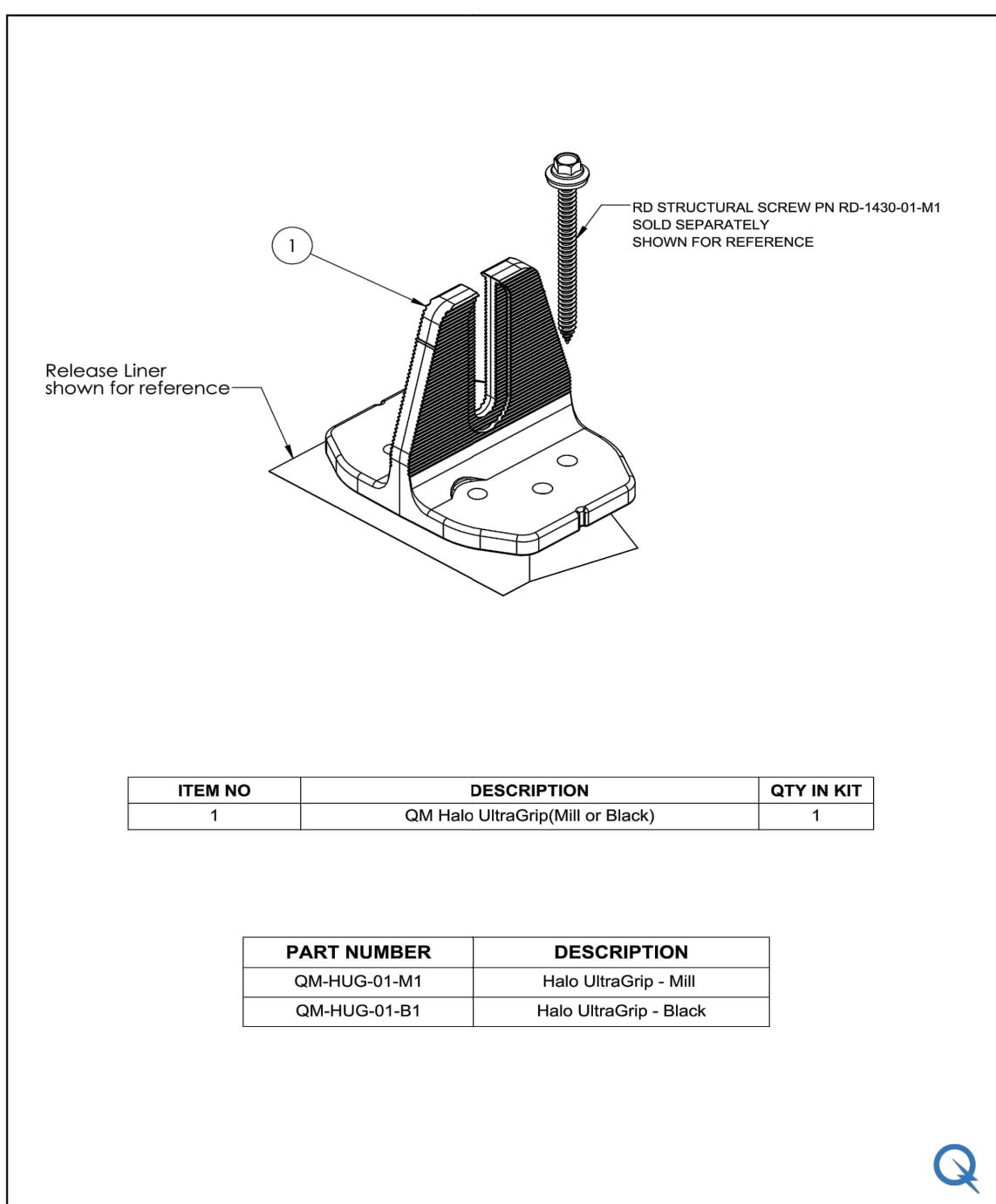
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**SHEET NUMBER****R-05****PROJECT NAME & ADDRESS**

ZALMA ROSS

5701 DEER POND LN,  
CAMP SPRINGS, MD 20746  
APN #: 06 5525176AHJ: PRINCE GEORGE'S COUNTY  
UTILITY: PEPCO**SYSTEM DETAILS**DC SIZE: 10.875 KW DC-(STC)  
AC SIZE: 7.250 KW AC  
(25) Q CELLS Q.TRON BLK M-G2+ 435  
(25) ENPHASE IQ8PLUS-72-2-US**REVISIONS**

REV	DESCRIPTION	DATE

**SHEET TITLE  
RESOURCE  
DOCUMENTS**

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