

# TECHNICAL BULLETIN



## CHOOSING ATTACHMENTS FOR UNIRAC ROOFMOUNT

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### Purpose

This technical bulletin assists engineers and designers with the selection of safe, reliable attachments for Unirac flat-roof solar PV systems that specify such methods for wind, seismic, or jurisdictional requirements.

### Overview

Flat-roof PV systems must be held in place to guard against the lift generated by wind. As opposed to a purely ballasted system that is held in place by weight and friction, an attached system is fastened to the roofing surface mechanically (i.e., generally using a screw or bolt and a flashing or other sealing method). These attachments are also called “anchors.”

Certain flat-roof applications can require the use of reduced ballast or a system that is completely mechanically attached. In such cases, anchor hardware should be carefully chosen to ensure safety and performance. Higher-capacity anchors may not necessarily lead to greater control and can cost more. Unirac suggests reviewing the following information thoroughly.

*Please note: A system design that calls for attachments must be installed according to the engineering plan for Unirac’s warranty to apply.*

### Considerations by product

Forces affecting a rooftop array are complex, and Unirac has conducted extensive testing to understand these loads. Users should also understand that due to the differing construction and materials among various Unirac products, loading is specific to the product in question. One size does not fit all.

Unirac’s design default is generally Anchor Products’ U-Anchor attachment, and Unirac hardware is designed to fit this brand. For U-Anchors U2400 or U2600 the allowable load is 403 lbs. in tension. Unirac is able to incorporate a limited number of other commercially available roof attachments—please see below for more information.

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Product	RM5	RM10	RMDT
<b>U-Anchors</b>			
1000 series	Y	Y	Y
2000 series	Recommended	Recommended	Recommended
<b>OMG Roofing Products</b>			
PowerGrip Standard	Y	Y	Y
PowerGrip Plus	Recommended	Recommended	Recommended
Universal 7	Y	Y	Y
Universal 11	N	Y	N
<b>Sustainable Technologies</b>			
Facet	N	Y	N

Please note: “Recommended” options will provide the easiest installation process.

### Further information

Consult our YouTube channel regularly for new Tips & Tricks (<https://www.youtube.com/user/uniracsolar1>).