

Shims

Parts 990105 thru 08 *Installation Sheet 906*

Use shims for two principal purposes with UniRac products:

- To level or raise standoffs and L-feet and
- To precisely align rails—in particular, SunFrame rails.

Shims are structural elements. Photographs below illustrate examples of correct use.

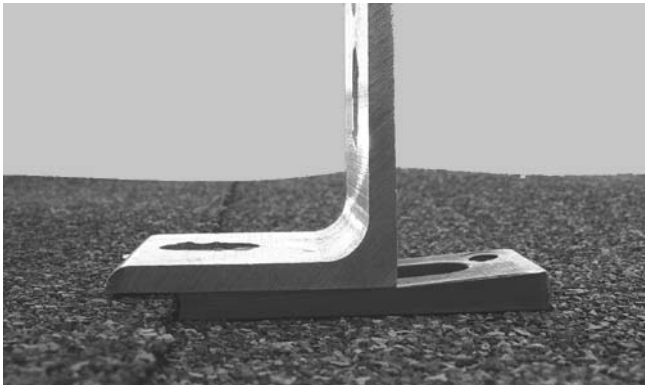


Part no. 990105
 $1\frac{1}{2}$ " x 2" x $\frac{1}{16}$ "
(blue)

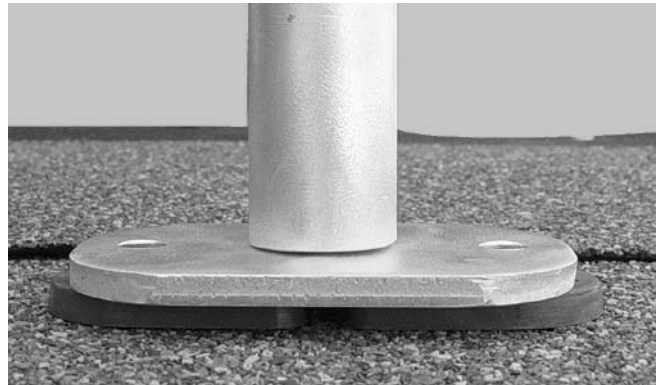
Part no. 990106
 $1\frac{1}{2}$ " x 2" x $\frac{1}{8}$ "
(red)

Part no. 990107
 $1\frac{1}{2}$ " x 2" x $\frac{1}{4}$ "
(black or dark gray)

Part no. 990108
 $1\frac{1}{2}$ " x $3\frac{3}{8}$ ", tapered
(black)



Tapered shim levels L-foot.



Shims ($\frac{1}{4}$ ") raise standoff.



In combination, shims ($\frac{1}{16}$ " and tapered) level standoff.



Shim ($\frac{1}{8}$ ") used for precise alignment of SunFrame rail. For purposes of illustration, the shim is to the left of its final position around the bolt shaft.

The installer is solely responsible for:

- Complying with all applicable local or national building codes, including any that may supercede this manual;
- Ensuring that UniRac and other products are appropriate for the particular installation and the installation environment;
- Ensuring that the roof, its rafters, connections, and other structural support members can support the array under building live load conditions;
- Using only UniRac parts and installer-supplied parts as specified by UniRac (substitution of parts may void the warranty);
- Maintaining the waterproof integrity of the roof; and
- Ensuring safe installation of all electrical aspects of the PV array.

10 year limited Product Warranty

UniRac, Inc., warrants to the original purchaser ("Purchaser") of product(s) that it manufactures ("Product") at the original installation site that the Product shall be free from defects in material and workmanship for a period of ten (10) years, from the earlier of 1) the date the installation of the Product is completed, or 2) 30 days after the purchase of the Product by the original Purchaser. This Warranty does not cover damage to the Product that occurs during its shipment, storage, or installation.

This Warranty shall be VOID if installation of the Product is not performed in accordance

with UniRac's written installation instructions, or if the Product has been modified, repaired, or reworked in a manner not previously authorized by UniRac IN WRITING, or if the Product is installed in an environment for which it was not designed. UniRac shall not be liable for consequential, contingent or incidental damages arising out of the use of the Product by the Purchaser under any circumstances.

If within the specified Warranty period the Product shall be reasonably proven to be defective, then UniRac shall repair or replace the defective Product, or any part thereof,

in UniRac's sole discretion. Such repair or replacement shall completely satisfy and discharge all of UniRac's liability with respect to this limited Warranty. Under no circumstances shall UniRac be liable for special, indirect or consequential damages arising out of or related to use by Purchaser of the Product.

Manufacturers of related items, such as PV modules and flashings, may provide written warranties of their own. UniRac's limited Warranty covers only its Product, and not any related items.



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