

TECHNICAL INFORMATION SHEET

Polymer Fastener



Product Description:

2 ¾"	W56RAC4527	5 ½"	W56RAC4555
3"	W56RAC4530	6"	W56RAC4560
3 ½"	W56RAC4535	6 ½"	W56RAC4565
4"	W56RAC4540	7"	W56RAC4570
4 ½"	W56RAC4545	7 ½"	W56RAC4575
5"	W56RAC4550	8"	W56RAC4580

Product Information

Description:

The Firestone Polymer Fasteners are to be used in conjunction with Firestone Polymer Insulation Plates for the attachment of insulation, base sheets, and selected roof system components into cementitious wood fiber or gypsum decks. The Firestone Polymer Fastener Metal Batten Strip or 2" (51 mm) Polymer Fastener Metal Seam Plates must be used when attaching membrane. Seam Plates, Batten Strips, and 3" (76.2 mm) Insulation Plates offer an anti-backout mechanism. When properly engaged, tabs on the underside of the Polymer Fastener open and lock against the teeth around the hole, thus locking the fastener to the plate or batten resisting back-out.

Product Packaging

<u>Screw Length</u>	<u>Thread Length</u>	<u>Pieces per Carton</u>	<u>Cartons per Pallet</u>
2 ¾" (70.0 mm)	2.25" (57.15 mm)	500	54
3" (76.2 mm)	2.25" (57.15 mm)	500	54
3 ½" (89.0 mm)	2.25" (57.15 mm)	500	36
4" (102.0 mm)	2.25" (57.15 mm)	500	36
4 ½" (114.0 mm)	2.25" (57.15 mm)	500	27
5" (127.0 mm)	2.25" (57.15 mm)	500	27
5 ½" (140.0 mm)	2.25" (57.15 mm)	500	27
6" (152.0 mm)	2.25" (57.15 mm)	500	27
6 ½" (165.0 mm)	2.25" (57.15 mm)	500	27
7" (178.0 mm)	2.25" (57.15 mm)	250	18
7 ½" (191.0 mm)	2.25" (57.15 mm)	250	18
8 ½" (203.0mm)	2.25" (57.15 mm)	250	18

NOTE: 8 ½" (216 mm) - 14" (356 mm) are special order.

Method of Application:

Cementitious wood fiber decks do not require pre-drilling. If the fasteners are required to go through membrane and/or an existing roof, pre-drilling is required, but only to the deck surface. Gypsum decks require pre-drilling in all cases using a ⅜" (9.5 mm) -7/16" (11.1 mm) diameter pilot hole ½" (12.7 mm) deeper than expected embedment. Do not over or under drive fasteners.

The preferred method of installation is an electric impact tool which provides a high torque and relatively low rpm. A heavy-duty variable speed screw gun operated at a low speed is also acceptable.

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Storage:

Store in original, unopened packaging protected from the weather.

Precautions:

Eye protection must be worn during the installation of fasteners.

LEED® Information:

Post Consumer Recycled Content: 0%

Pre Consumer Recycled Content: 0%

Manufacturing Locations: New Rochelle, NY

*NOTE: LEED® is a registered trademark of the U.S. Green Building Council.



Typical Properties

<u>Property:</u>	<u>Values:</u>
Material:	Black glass reinforced nylon
Thread Diameter:	0.687" (17.45 mm)
Screw Head:	¼" (6.3 mm) Square Drive
Pullout	
New Cementitious Deck with 2" (50.8mm) embedment:	400 lb (181.4 kg) typical*
New Gypsum decks with 2" (50.8 mm) embedment	500 lb (226.8 kg) typical*

*Results vary with condition of decking - verify pullout by on-site testing. A minimum 1.5" (38.1 mm) penetration into decking is required for Cementitious wood fiber or gypsum decks.

Please contact Firestone Technical Services Department at 1-800-428-4511 for further information.

This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications or other technical documents, subject to normal roof manufacturing tolerances. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Firestone representative is authorized to vary this disclaimer.