

# Technical Information Sheet



## Polymer Fastener

Size	Item Number	Size	Item Number
3"	W56RAC4530	6"	W56RAC4560
3 1/2"	W56RAC4535	6 1/2"	W56RAC4565
4"	W56RAC4540	7"	W56RAC4570
4 1/2"	W56RAC4545	7 1/2"	W56RAC4575
5"	W56RAC4550	8"	W56RAC4580
5 1/2"	W56RAC4555		

## Description

The Polymer Fasteners are to be used in conjunction with Polymer Insulation Plates for the attachment of insulation, base sheets, and selected roof system components into cementitious wood fiber or gypsum decks. The 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. This fastener is not intended to be used for in-seam attachment of single-ply membrane.

## Method of Application

1. 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 3/8" (9.5 mm) -7/16" (11.1 mm) diameter pilot hole 1/2" (12.7 mm) deeper than expected embedment. Do not over or under drive fasteners.
2. 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.

## Storage

Store in original, unopened packaging protected from the weather.

## Precautions

Eye protection must be worn during the installation of the fasteners.

## LEED® Information

Post-Consumer Recycled Content:	0%
Pre-Consumer Recycled Content:	0%
Manufacturing Location:	New Rochelle, NY



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

Product Packaging			
Screw Length	Thread Length	Pieces per Carton	Cartons per Pallet
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" (203.2 mm)	2.25" (57.15 mm)	250	18

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

Typical Properties	
Property	Value
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" (50.8 mm) 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 Holcim Technical Services at 800-428-4511 for further information.

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