

Technical Information Sheet



All-Purpose Fastener

Size	Item Number	Size	Item Number
1 1/2"	W56RAC4224	4 1/2"	W56RAC4206
2"	W56RAC4225	5"	W56RAC4207
2 1/2"	W56RAC4226	5 1/2"	W56RAC4198
3"	W56RAC4227	6"	W56RAC4208
3 1/2"	W56RAC4228	7"	W56RAC4209
4"	W56RAC4229	8"	W56RAC4210

Description

All-Purpose Fasteners are used in applications for the attachment of roofing insulation and base sheets in combination with Elevate Insulation Plates and for the attachment of Elevate Batten Strips, Seam Plates, Termination Bars, and other accessories to steel and wood substrates were approved by Elevate Technical Specifications. The Elevate All-Purpose Fastener is Factory Mutual (FM) approved.

Method of Application

- Using the #3 Phillips tip provided, and a variable speed drill, engage the fastener into the deck as noted below. Take care not to over or under drive the fastener. Threads must engage the decking material per Elevate Technical Specifications.
- Determine screw length as follows:
 - Steel Decks: Select fastener length to penetrate through the deck a minimum of 3/4" (19.1 mm).
 - Wood Decks: Select fastener length to penetrate into or through the deck a minimum of 1" (25.4 mm).
- All-Purpose Fasteners may not work as expected through existing roof systems or unusual substrates. Consideration should be given to using Elevate HD Fasteners in these instances.

Storage

Store in original, unopened packaging protected from the weather.

Precautions

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

LEED® Information

Recycled Content: 20%

Manufacturing Location: Bryan, OH

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



Product Packaging			
Screw Length	Thread Length	Pieces per Plastic Pail	Pails per Pallet
1½" (38.1 mm)	Full	1,000	60
2" (50.8 mm)	Full		
2½" (63.5 mm)	Full		
3" (76.2 mm)	2⅞" (73 mm)		
3½" (88.9 mm)			
4" (101.6 mm)	3⅞" (98.4 mm)		
4½" (114.3 mm)			
5" (127.0 mm)			
5½" (139.7 mm)			
6" (152.4 mm)			
7" (177.8 mm)			
8" (203.2 mm)		500	

Typical Properties	
Property	Typical Performance
Material	SAE 1022, Heat Treated Steel with Epoxy E-Coat
Thread Size	0.237" (6.0 mm)
Threads/Inch	13
Thread Design	Symmetrical
Fastener Tip	Drill point
Fastener Head	#3 Phillips drive
Ultimate Tensile Strength	3,254 lbf (14.47 kN)
Ultimate Shear Strength in Threaded Region	2,216 lbf (9.86 kN)
Corrosion Resistant Coating	Electrocoating exhibit 15% or less red rust after 30 cycles of Kesternich and exceed requirements of FM 4470.

Pullout Values					
Wood Substrates					
Thickness	Per inch of thread not including tip	7/16" (11.1 mm)	15/32" (11.9 mm)	19/32" (15.1 mm)	23/32" (18.3 mm)
OSB	N/A	270 lbf (1,201 N)	290 lbf (1,290 N)	310 lbf (1,379 N)	410 lbf (1,824 N)
APA Rated Plywood	N/A	N/A	360 lbf (1,601 N)	410 lbf (1,824 N)	730 lbf (3,247 N)
SPF #2 Wood 2x4	795 (360.6 kg)	N/A			
Corrugated Steel Deck Substrates with Various Yield Strengths					
	33.0 ksi	36.5 ksi	80.0 ksi	102.0 ksi	
24 ga.	N/A	255 lbf (1,134 N)	N/A	N/A	
22 ga.	315 lbf (1,401 N)	N/A	480 lbf (2,135 N)	560 lbf (2,491 N)	
20 ga.	420 lbf (1,868 N)	N/A	615 lbf (2,736 N)	710 lbf (3,158 N)	
18 ga.	675 lbf (3,003 N)	N/A	885 lbf (3,937 N)	985 lbf (4,382 N)	
16 ga.	850 lbf (3,781 N)	N/A	1,115 lbf (4,960 N)	1,240 lbf (5,516 N)	

NOTE: Pullout resistance needs to be field verified on every project by testing per SPRI/ANSI FX-1.

Please contact Holcim Technical Services at 800-428-4511 for further information.

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