



## Pre-Assembled #12 Fastener and Insulation Plate

### Firestone Item Number:

2-1/4"	W56RAC4162	5"	W56RAC4167
2-7/8"	W56RAC4163	6"	W56RAC4168
3-1/4"	W56RAC4164	7"	W56RAC4169
3-3/4"	W56RAC4165	8"	W56RAC4170
4-1/2"	W56RAC4166		

### DESCRIPTION:

The Firestone Pre-Assembled #12 Fastener and Plate is specifically designed to be used in all Firestone roof systems to pre-attach insulation or base sheets to steel and wood decks.

### METHOD OF APPLICATION:

- Position assembly over roof insulation or base sheet as specified in current Firestone Technical Specifications and Details by hand or by using Firestone's SETTER TOOL (W563582035).
- Using Firestone's STAND-UP TOOL (W563582039), drive the fastener into the deck the appropriate depth, being careful not to over or under drive (conventional drills may be used to drive the fasteners). One (1) #3 Phillips drive bit is included in every four cartons.

**Note: These fasteners may not work as expected through existing roof systems or unusual substrates. Consideration should be given to using Firestone HD fasteners in these instances.**

### PRECAUTIONARY DATA:

Eye protection must be worn during the installation of the All-Purpose Pre-Assembled Fastener and Plate.

### PRODUCT DATA:

#### Metal Plate Properties

Material:	Galvalume® Sheet Steel AZ-50 min.
Thickness:	0.017" (.43 mm) - 0.023" (.58 mm)
Shape:	3" (76 mm) Round Plate
Corrosion Resistance:	Meets FM No. 4470 criteria
Pull Through Resistance:	400 lb (181.4 kg) min.

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## PRODUCT DATA

### Fastener Properties

Material:	SAE 1022 heat treated steel
Thread Size:	Nominal 0.2135" (5.42 mm) Major dia., 15-1/2 Threads/Inch
Thread Type:	Double Lead
Point Type:	Drill Point
Screw Pullout:	
New 22 ga. (.76 mm) Steel Deck:	Min. 400 lb (181.4 kg)
New 15/32" (11.9 mm) Plywood:	Min. 375 lb (170.1 kg)
Corrosion Coating:	Epoxy coated
Corrosion Resistance:	Meets FM No. 4470 criteria
Color:	Red (PMS 485)

<u>Screw Length</u>	<u>Thread Length</u>	<u>Pieces/ Carton</u>	<u>Cartons/ Pallet</u>
2-1/4" (57.15 mm)	Full	250	40
2-7/8" (73.02 mm)	Full	250	40
3-1/4" (82.55 mm)	3" (76.2 mm)	250	40
3-3/4" (95.25 mm)	3" (76.2 mm)	250	40
4-1/2" (114.3 mm)	3" (76.2 mm)	250	24
5" (127.0 mm)	4" (101.6 mm)	250	24
6" (152.4 mm)	4" (101.6 mm)	250	24
7" (177.8 mm)	4" (101.6 mm)	200	24
8" (203.2 mm)	4" (101.6 mm)	200	24

### Determine required screw length as follows:

**Steel Decks:** Select fastener length to penetrate into or through the deck a minimum of 3/4" (19.1 mm).

**Wood Decks:** Select fastener length to penetrate into or through the deck minimum of 1" (25.4 mm).

### LEED INFORMATION:

Post Consumer Recycled Content:	25%
Post Industrial Recycled Content:	0%
Manufacturing Location:	Bryan, OH



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