

Heavy Duty Plus Fastener

Red Fasteners

2"	W56RAC4282
3"	W56RAC4283
4"	W56RAC4284
5"	W56RAC4285
6"	W56RAC4286
7"	W56RAC4287
8"	W56RAC4288
10"	W56RAC4290

White Fasteners*

2"	W56RAC4292
3"	W56RAC4293
4"	W56RAC4295
5"	W56RAC4296
6"	W56RAC4294
7"	W56RAC4297
8"	W56RAC4298
10"	W56RAC4291



NOTE: Additional sizes of 16", 18", 20", 22", and 24" Fasteners are available upon request.

Product Information

Description:

Firestone Heavy Duty Plus Fasteners are specifically designed to be used in B.I.T.S., M.A.S., Reinforced MAX, and UltraPly™ TPO mechanically attached systems to attach Firestone metal, polymer batten strips or Heavy Duty Plus Seam Plates where additional pullout strength is required. The Heavy Duty Plus Fastener is designed for use into steel decks only.

***NOTE:** Firestone is not responsible for, nor guarantees that the white coating will remain on the fastener during or after installation. Because the coating on Firestone's white fasteners is removed to some degree during the installation process, Firestone suggests that 1) the building owner be made aware of the expectations of the white fasteners and that repainting of the deck may be required after roofing is complete or 2) any deck painting take place after the roof is installed. In this case, any color of screw will work.

Product Packaging

<u>Screw Length</u>	<u>Thread Length</u>	<u>Pieces per Plastic Pail</u>
2" (50.8 mm)*	Full	1,000
3" (76.2 mm)	Full	1,000
4" (101.6 mm)	3" (76.2 mm)	500
5" (127.0 mm)	4" (101.6 mm)	500
6" (152.4 mm)	4" (101.6 mm)	500
7" (177.8 mm)	4" (101.6 mm)	250
8" (203.2 mm)	4" (101.6 mm)	250
10" (254.0 mm)	4" (101.6 mm)	250

* 2" fasteners are available by special order only.

NOTE: Additional sizes of 16", 18", 20", 22", and 24" fasteners are available upon request.

Method of Application:

- The Heavy Duty Plus Fastener is intended to drill into 22 gauge steel decks. Thicker gauge decks should not be attempted unless the deck is pre-drilled with an 11/32" (8.6 mm) diameter drill bit.
- When using Heavy Duty Plus Fasteners to secure Firestone Batten Strips, in the event that a pre-punched hole in the batten strip does not line up with the top flute of the deck, do not attempt to install a Heavy Duty Plus Fastener through the batten without pre-drilling. It is suggested that if alignment is a problem, the batten strip simply be cut and realigned with the top flute of the deck, then attachment through the pre-punched holes continue.
 - Using the #3 Phillips tip provided, 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 Firestone Technical Specification. Select fastener length to penetrate through the deck a minimum of 1" (25.4 mm).

TECHNICAL INFORMATION SHEET

Heavy Duty Plus Fastener

Storage:

Store in original, unopened packaging protected from the weather.

Precautions:

Eye protection must be worn during the installation of the fasteners and any drilling operation.

LEED® Information:

Postconsumer Recycled Content: 25%
Preconsumer Recycled Content: 0%
Manufacturing Location: West Chicago, IL



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

Physical Properties

<u>Property</u>	<u>Typical Performance</u>
Material:	SAE 1022, Heat Treated Steel
Thread Size:	0.330" (8.4 mm) Major Diameter
Threads/Inch:	12.5
Thread Design:	Buttress thread
Fastener Tip:	Drill point design
Fastener Head:	Pan head, #3 Phillips
Head Diameter:	0.660" (13.9 mm) minimum
Pullout in New 22 gauge (0.76 mm) Steel Deck:	
Grade C (Grade 33):	640 lbs (290.3 kg) minimum
Grade E (Grade 80):	740 lbs (335.7 kg) minimum
Corrosion Resistant Coating:	Electrocoating of Firestone's Red and White fasteners both exhibit 15% or less red rust after 30 cycles of Kesternich and exceed requirements of FM 4470.

Please contact Quality Building Services Technical 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.