

Technical Information Sheet



HEAVY-DUTY FASTENER

Red Fasteners		Black Fasteners		White Fasteners	
Size	Item Number	Size	Item Number	Size	Item Number
1 1/4"	W56RAC4230	9"	W56RAC4247	1 1/4"	W56RAC4390
2"	W56RAC4232	11"	W56RAC4248	2"	W56RAC4391
3"	W56RAC4234	16"	W56RAC4244	3"	W56RAC4392
4"	W56RAC4236	18"	W56RAC4245	4"	W56RAC4393
5"	W56RAC4237	20"	W56RAC4246	5"	W56RAC4394
6"	W56RAC4249	22"	W56RAC4231	6"	W56RAC4395
7"	W56RAC4239	24"	W6RAC4233	7"	W56RAC4396
8"	W56RAC4240			8"	W56RAC4397
10"	W56RAC4241			10"	W56RAC4398
12"	W56RAC4242				
14"	W56RAC4243				

DESCRIPTION

The Heavy-Duty Fastener is specifically designed to be used in roofing applications which require additional corrosion protection and additional pullout resistance. The Heavy-Duty Fastener may be used for attachment of roofing insulation and base sheets in combination with Elevate Insulation Plates, or for attachment of Elevate Batten Strips, Seam Plates, Termination Bars, and other accessories to steel, wood, concrete, and other decks where approved by Elevate Technical Specifications.

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).
 - Concrete Decks: Select fastener length to penetrate into deck a minimum of 1" (25.4 mm).
- If pre-drilling of the deck substrate is necessary, use a hammer drill in impact mode with a 7/32" (5.6 mm) carbide drill bit. Install fasteners by using a variable speed drill at a maximum of 1,500 rpm.

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

Post-Consumer Recycled Content: 25%
 Pre-Consumer Recycled Content: 0%
 Manufacturing Location: Addison, IL



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

PRODUCT PACKAGING				
Screw Length	Thread Length	Pieces per Container	Weight per Pail/Ctn	Pails/Ctn per Pallet
1 1/4" (31.8 mm)	Full	1,000 / pail	12 lb (5.4 kg)	60
2" (50.8 mm)	Full	1,000 / pail	19 lb (8.6 kg)	60
3" (76.2 mm)	Full	1,000 / pail	29 lb (13.2 kg)	60
4" (101.6 mm)	3" (76.2 mm)	1,000 / pail	37 lb (16.8 kg)	60
5" (127.0 mm)	4" (101.6 mm)	1,000 / pail	47 lb (21.3 kg)	60
6" (152.4 mm)	4" (101.6 mm)	500 / pail	28 lb (12.7 kg)	60
7" (177.8 mm)	4" (101.6 mm)	500 / pail	33 lb 5.0 kg)	60
8" (203.2 mm)	4" (101.6 mm)	500 / pail	38 lb (17.2 kg)	60
9" (228.6 mm)	4" (101.6 mm)	500 / ctn*	42 lb (19.0 kg)	60
10" (254.0 mm)	4" (101.6 mm)	250 / ctn*	50 lb (20.9 kg)	60
11" (279.4 mm)	4" (101.6 mm)	500 / ctn*	51 lb 23.1 kg)	60
12" (304.8 mm)	4" (101.6 mm)	500 / ctn*	55 lb (24.9 kg)	60
14" (355.6 mm)	4" (101.6 mm)	250 / ctn*	65 lb (29.5 kg)	30
16" (406.4 mm)	4" (101.6 mm)	250 / ctn*	38 lb (17.2 kg)	30
18" (457.2 mm)	4" (101.6 mm)	250 / ctn*	43 lb (19.5 kg)	30
20" (508.0 mm)	4" (101.6 mm)	250 / ctn*	47 lb (21.3 kg)	30
22" (558.8 mm)	4" (101.6 mm)	125 / ctn*	65 lb (29.5 kg)	24
24" (609.6 mm)	4" (101.6 mm)	125 / ctn*	65 lb (29.5 kg)	24

* Packaged in cardboard boxes due to fastener length. May require additional lead time.

TYPICAL PROPERTIES	
Property	Typical Performance
Material	SAE 1022, Heat Treated Steel
Thread Size	0.275" (6.98 mm) Nominal Diameter
Threads/Inch	13 min.
Thread Design	Buttress thread
Fastener Tip	Drill point design
Fastener Head	#3 Phillips drive
Pullout in New 22-gauge (0.76 mm) Steel Deck Grade C (Grade 33) Grade E (Grade 80)	595 lb (270 kg) min. 650 lb (295 kg) min.
Pullout in New Structural Concrete	700 lb (317.5 kg) min.
Pullout in New 3/4" (19.0 mm) Plywood Deck	360 lb (163 kg) min.
Corrosion Resistant Coating	Electrocoating of fasteners exhibit 15% or less red rust after 30 cycles of Kesternich and exceed requirements of FM 4470.

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

This sheet is meant to highlight Elevate products and specifications and is subject to change without notice. Amrize takes responsibility for furnishing quality materials that meet published Elevate product specifications or other technical documents, subject to normal manufacturing tolerances. Neither Amrize nor its representatives practice architecture. Amrize offers no opinion on and expressly refuses any responsibility for the soundness of any structure. Amrize 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 Amrize representative is authorized to vary this disclaimer.

TIS 1002

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Sales: (800) 428-4442

Technical: (800) 428-4511

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