

TECHNICAL INFORMATION SHEET

Heavy Duty Roofing Fastener

High Performance Commercial Roof System Fasteners

ACE FITnSTRONG™ #14 Fastener	
BLACK e-coat Fasteners	
Size	Part #
1-1/4" (31.8 mm)	ACE-FS14-114INB
1-1/2" (38.0 mm)	ACE-FS14-112INB
2" (50.8 mm)	ACE-FS14-2INB
2-1/2" (63.5 mm)	ACE-FS14-212INB
3" (76.2 mm)	ACE-FS14-3INB
3-1/2" (88.9 mm)	ACE-FS14-312INB
4" (101.6 mm)	ACE-FS14-4INB
4-1/2" (114.3 mm)	ACE-FS14-412INB
5" (127.0 mm)	ACE-FS14-5INB
5-1/2" (139.7 mm)	ACE-FS14-512INB
6" (152.4 mm)	ACE-FS14-6INB
7" (177.8 mm)	ACE-FS14-7INB
8" (203.2 mm)	ACE-FS14-8INB
9" (228.6 mm)	ACE-FS14-9INB
10" (254.0 mm)	ACE-FS14-10INB
11" (279.4 mm)	ACE-FS14-11INB
12" (304.8 mm)	ACE-FS14-12INB
13" (330.2 mm)	ACE-FS14-13INB
14" (355.6 mm)	ACE-FS14-14INB
15" (381.0 mm)	ACE-FS14-15INB



PRODUCT INFORMATION

Description:

The Ace #14 FITnSTRONG™ Roofing Fasteners are designed to be used with Ace Screws Insulation and Membrane Plates to secure ridged insulation, base sheet, EPDM, TPO, PVC, to steel (18* to 22Ga) or wood structural decks. Fasteners ranging in length from 1-1/4" to 15" are available to meet a variety of commercial roofing applications.

Method of Application:

- Using the #3 Phillips tip provided, and a variable speed drill, engage the fastener into the deck as noted below. Do not over or under drive the fastener. Threads must engage the decking material per 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).
- Ace #14 Fasteners may not work as expected through existing roof systems or unusual substrates.
- For best results, use a variable-speed screw gun (0-2500 RPM). Do not over tighten.

Storage:

Store in original, unopened packaging protected from the weather.

Precautions:

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



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Tested in accordance with
TAS 114 and TAS 117.



FBC:
FL41667

Ace Screws' products and specifications are subject to change without notice.

Neither Ace Screws nor its representatives practice architecture/engineering. Ace Screws offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Ace Screws 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 Ace Screws representative is authorized to vary this disclaimer.

*When installing into 18Ga deck, use a slow, controlled approach and feather the trigger to avoid binding or bit slippage; excessive speed can cause damage to the fastener.

ACE SCREWS

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Product Packaging

Screw Length	Thread Length	Pieces per Pail	lbs. Per Package	Packages per Pallet
1-1/4" (31.8 mm)	Full	1,000	14.2 lbs	80
1-1/2" (38.1 mm)	Full	1,000	18.1 lbs	80
2" (50.8 mm)	Full	1,000	22.0 lbs	80
2-1/2" (63.5 mm)	Full	1,000	25.9 lbs	80
3" (76.2 mm)	Full	1,000	29.8 lbs	80
3-1/2" (88.9 mm)	Full	1,000	33.7 lbs	80
4" (101.6 mm)	Full	1,000	37.6 lbs	80
4-1/2" (114.3 mm)	4" (101.6 mm)	1,000	42.1 lbs	60
5" (127.0 mm)	4" (101.6 mm)	1,000	46.7 lbs	60
5-1/2" (139.7 mm)	4" (101.6 mm)	1,000	50.6 lbs	60
6" (152.4 mm)	4" (101.6 mm)	1,000	54.5 lbs	60
7" (177.8 mm)	4" (127.0 mm)	500	32.1 lbs	40
8" (203.2 mm)	4" (127.0 mm)	500	36.0 lbs	40
9" (228.6 mm)	5" (127.0 mm)	250	21.2 lbs	20
10" (254.0 mm)	5" (127.0 mm)	250	23.1 lbs	20
11" (279.4 mm)	5" (127.0 mm)	250	25.1 lbs	20
12" (304.8 mm)	5" (127.0 mm)	250	27.0 lbs	20
13" (330.2 mm)	5" (127.0 mm)	250	29.0 lbs	15
14" (355.6 mm)	5" (127.0 mm)	250	31.0 lbs	15
15" (381.0 mm)	5" (127.0 mm)	250	32.9 lbs	15

Properties

Property	Typical Performance
Material	Manufactured using SAE 1022 HEAT TREATED STEEL
Threads/Inch	13
Fastener Tip	High Performance Drill Point
Fastener Head	#3 Phillips Drive

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information are intended as a guide and does not reflect the specification range for any particular property of this product.

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Ace #14 Fastener Minimum Specification (Actual Test Results)

3 rd Party Independent: (Nemo Etc. SGS SA Element Materials Technology)			Pull Out Test Results	
ASTM F6096/F606M-2019	Minimum	Average	Ga, ksi	Average
Tensile	2830 lbf	2874 lbf	22 Ga, 40 Grade	515 lbf
Shear Test	1571 lbf	1599 lbf	22 Ga, 80 Grade	776 lbf
Torque Test	114 lbf-in	120 lbf-in	19/32" Plywood	1397 lbf
DIN 50018 15 cycles Kesternich	Specification	Average		
Black e-coat	<15 % red rust	<5% red rust Exceeds FM 4470 Requirements		