TECHNICAL INFORMATION SHEET

ACE SCREWS™

Extra Heavy Duty Roofing Fastener

High Performance Commercial Roof System Fasteners

ACE FATnSTRONG™ #15 Fastener	
BLACK e-coat Fasteners	
Size	Part #
1-1/4" (31.8 mm)	ACE-FS15-114INB
2" (50.8 mm)	ACE-FS15-2INB
3" (76.2 mm)	ACE-FS15-3INB
4" (101.6 mm)	ACE-FS15-4INB
5" (127.0 mm)	ACE-FS15-5INB
6" (152.4 mm)	ACE-FS15-6INB
7" (177.8 mm)	ACE-FS15-7INB
8" (203.2 mm)	ACE-FS15-8INB
9" (228.6 mm)	ACE-FS15-9INB
10" (254.0 mm)	ACE-FS15-10INB
11" (279.4 mm)	ACE-FS15-11INB
12" (304.8 mm)	ACE-FS15-12INB
14" (355.6 mm)	ACE-FS15-14INB
16" (406.4 mm)	ACE-FS15-16INB
18" (457.2 mm)	ACE-FS15-18INB
20" (508.0 mm)	ACE-FS15-20INB
22" (558.8 mm)	ACE-FS15-22INB
24" (609.6 mm)	ACE-FS15-24INB

PRODUCT INFORMATION

Description:

The Ace #15 FATnSTRONG™ 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 certain wood structural decks. Fasteners ranging in length from 1-1/4" to 24" are available to meet a variety of commercial roofing applications.

Method of Application:

1. 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.
2. Determine screw length as follows:
    a. Steel Decks: Select fastener length to penetrate through the deck a minimum of 3/4" (19.1 mm).
    b. Wood Decks: Select fastener length to penetrate into or through the deck a minimum of 1" (25.4 mm).
3. Ace #15 Fasteners may not work as expected through existing roof systems or unusual substrates.
4. 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.

MIAMI-DADE COUNTY APPROVED

Miami-Dade NOA No. 25-0402.11
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Tested in accordance with
TAS 114 and TAS 117.

FM APPROVED

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™

Extra Heavy Duty Roofing Fastener

Product Packaging

Screw Length	Thread Length	Pieces per Pail	lbs. Per Package	Packages per Pallet
1-1/4" (31.8 mm)	Full	1,000	14lbs	60
2" (50.8 mm)	Full	1,000	22lbs	60
3" (76.2 mm)	Full	1,000	33lbs	40
4" (101.6 mm)	3" (76.2 mm)	1,000	42lbs	60
5" (127.0 mm)	4" (101.6 mm)	500	27lbs	60
6" (152.4 mm)	4" (101.6 mm)	500	32lbs	60
7" (177.8 mm)	4" (127.0 mm)	500	37lbs	60
8" (203.2 mm)	4" (127.0 mm)	500	42lbs	60
9" (228.6 mm)	5" (127.0 mm)	500	46lbs	40
10" (254.0 mm)	5" (127.0 mm)	500	52lbs	40
11" (279.4 mm)	5" (127.0 mm)	500	56lbs	40
12" (304.8 mm)	5" (127.0 mm)	500	61lbs	40
14" (355.6 mm)	5" (127.0 mm)	250	36lbs	28
16" (406.4 mm)	5" (127.0 mm)	250	42lbs	24
18" (457.2 mm)	5" (127.0 mm)	250	46lbs	24
20" (508.0 mm)	5" (127.0 mm)	250	51lbs	12
22" (558.8 mm)	5" (127.0 mm)	125	29lbs	ANY
24" (609.6 mm)	5" (127.0 mm)	125	32lbs	ANY

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.

Ace #15 Fastener Minimum Specification (Actual Test Results)				
3rd Party Independent: (Nemo Etc. | SGS SA | Element Materials Technology)			Pull Out Test Results	
ASTM F6096/F606M-2019	Minimum	Average	Ga, ksi	Average
Tensile	4429 lbf	4467 lbf	22 Ga, 40 Grade	699 lb
Shear Test	2020 lbf	2124 lbf	22 Ga, 80 Grade	724 lb
Torque Test	133 lbf-in	137 lbf-in	19/32" Plywood	685 lb
DIN 50018 15 cycles Kesternich	Specification	Average		
Black e-coat	<15 % red rust	<5% red rust Exceeds FM 4470 Requirements		