

# TECHNICAL INFORMATION SHEET

## Roofing Fastener

High Performance Commercial Roof System Fasteners



ACE SKINNYnSTRONG™ #12 Fastener			
BLACK e-coat Fasteners		SILVER Dip and Spin Fasteners	
Size	Part #	Size	Part #
3" (76.2 mm)	ACE-FS12-3INB	3" (76.2 mm)	ACE-FS12-3INS
4" (101.6 mm)	ACE-FS12-4INB	4" (101.6 mm)	ACE-FS12-4INS
5" (127.0 mm)	ACE-FS12-5INB	5" (127.0 mm)	ACE-FS12-5INS
6" (152.4 mm)	ACE-FS12-6INB	6" (152.4 mm)	ACE-FS12-6INS
7" (177.8 mm)	ACE-FS12-7INB	7" (177.8 mm)	ACE-FS12-7INS
8" (203.2 mm)	ACE-FS12-8INB	8" (203.2 mm)	ACE-FS12-8INS
10" (254.0 mm)	ACE-FS12-10INB	10" (254.0 mm)	ACE-FS12-10INS
12" (304.8 mm)	ACE-FS12-12INB	12" (304.8 mm)	ACE-FS12-12INS
14" (355.6 mm)	ACE-FS12-14INB	14" (355.6 mm)	ACE-FS12-14INS

## PRODUCT INFORMATION

### Description:

The Ace #12 SKINNYnSTRONG™ Roofing Screws are designed to be used with Ace 3" Insulation Plates to secure ridged insulation, cover boards and base sheet, to steel or wood structural decks. Fasteners ranging in length from 3" to 14" 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 #12 Fasteners may not work as expected through existing roof systems or unusual substrates.

### Storage:

Store in original, unopened packaging protected from the weather.

### Precautions:

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

*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.*

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Product Packaging				
Screw Length	Thread Length	Pieces per Box	lbs. Per Package	Packages per Pallet
3" (76.2 mm)	Full	1,000	22lbs	60
4" (101.6 mm)	3" (76.2 mm)	1,000	27lbs	60
5" (127.0 mm)	4" (101.6 mm)	1,000	34lbs	40
6" (152.4 mm)	4" (101.6 mm)	1,000	40lbs	60
7" (177.8 mm)	4" (101.6 mm)	500	23lbs	60
8" (203.2 mm)	4" (101.6 mm)	500	26lbs	60
10" (254.0 mm)	5" (127.0 mm)	500	32lbs	24
12" (304.8 mm)	5" (127.0 mm)	500	38lbs	24
14" (355.6 mm)	5" (127.0 mm)	500	44lbs	24

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 #12 Fastener Minimum Specification (Actual Test Results)

3 <sup>rd</sup> Party Independent: (SGS SA   Element Materials Technology)			Pull Out Test Results		
ASTM F6096/F606M-2019	Minimum	Average	Ga, ksi	Minimum	Average
Tensile	2760 lbf	2928 lbf	22 Ga, 33 ksi	380 lb	430 lb
Shear Test	2640 lbf	2674 lbf	20 Ga, 33ksi	400 lb	525 lb
Torque Test	80 in-lbs	89 in-lbs			
DIN 50018 15 cycles Kesternich	Specification	Average			
Black e-coat	<15 % red rust	<5% red rust Exceeds FM 4470 Requirements			
Silver Dip and Spin	<15 % red rust	0% red rust Exceeds FM 4470 Requirements			