TECHNICAL INFORMATION SHEET

ACE SCREWS™

Roofing Fastener

High Performance Commercial Roof System Fasteners

ACE SKINNYnSTRONG™ #12 Fastener	
BLACK e-coat Fasteners	
Size	Part #
1-5/8" (41.3 mm)	ACE-SS12-158INB
2" (50.8 mm)	ACE-SS12-2INB
2-1/4" (57.2 mm)	ACE-SS12-214INB
2-7/8" (73.0 mm)	ACE-SS12-278INB
3" (76.2mm)	ACE-SS12-3INB
3-1/4" (82.5 mm)	ACE-SS12-314INB
3-3/4" (95.3 mm)	ACE-SS12-334INB
4" (101.6 mm)	ACE-SS12-4INB
4-1/2" (114.3 mm)	ACE-SS12-412INB
5" (127.0 mm)	ACE-SS12-5INB
6" (152.4 mm)	ACE-SS12-6INB
7" (177.8 mm)	ACE-SS12-7INB
8" (203.2 mm)	ACE-SS12-8INB

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 (18* to 22Ga) or certain wood structural decks. Fasteners ranging in length from 1-5/8" to 8" 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.
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.

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.

Roofing Fastener

Product Packaging

Screw Length	Thread Length	Pieces per Pail	lbs. Per Package	Packages per Pallet
1-5/8" (41.3 mm)	Full	1,000	12lbs	60
2" (50.8 mm)	Full	1,000	15lbs	60
2-1/4" (57.2 mm)	Full	1,000	17lbs	60
2-7/8" (73.0 mm)	Full	1,000	21lbs	60
3" (76.2mm)	Full	1,000	23lbs	60
3-1/4" (82.5 mm)	3" (76.2 mm)	1,000	23lbs	60
3-3/4" (95.3 mm)	3" (76.2 mm)	1,000	26lbs	60
4" (101.6 mm)	3" (101.6 mm)	1,000	29lbs	60
4-1/2" (114.3 mm)	4" (101.6 mm)	1,000	31lbs	40
5" (127.0 mm)	4" (101.6 mm)	1,000	36lbs	40
6" (152.4 mm)	4" (101.6 mm)	1,000	41lbs	40
7" (177.8 mm)	4" (101.6 mm)	1,000	48lbs	40
8" (203.2 mm)	4" (101.6 mm)	1,000	54lbs	40

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 #12 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	2760 lbf	2980 lbf	22 Ga, 40 Grade	461 lb
Shear Test (Single)	1483 lbf	1560 lbf	22 Ga, 80 Grade	483 lb
Torque Test	98 in-lbs	99 in-lbs	19/32" Plywood	596 lb
DIN 50018 15 cycles Kesternich	Specification	Average		
Black e-coat	<15 % red rust	<5% red rust (Exceeds FM 4470 Requirements)		