#15 Roofing Fasteners

TECHNICAL PRODUCT INFORMATION

Imperfast Fasteners #15 roofing insulation screws are designed to be used with Imperfast Fasteners insulation plates to secure roof insulation, cover panels, base sheets, or single ply roofing (EPDM, TPO, or PVC) to steel or wood structural decks. Screws range from 1-1/4" to 24" in length and meet most commercial design standards.

FEATURES & BENEFITS

The buttress style threads are flat on top and angled on bottom for efficient penetration through the deck while providing higher pullout values and better resistance against withdrawal / back-out.

Each pail comes with two (2) #3 Phillips head drill bits fabricated from S2 alloy steel, which has a higher mechanical wear resistance under impact and torsion conditions compared to typical Cr-V drill bits.

When tested in accordance with the criteria established by ASTM D6294 Standard Test Method for Corrosion Resistance of Ferrous Metal Fastener Assemblies Used in Roofing and Waterproofing, Imperfast Fasteners with black e-coat technology pass with less than 15% red rust for up to 30 cycles, which is twice the ASTM minimum of 15 cycles. Imperfast Fasteners can also be installed in decks as heavy as 18 gauge.

Factory Mutual and Florida Building Code approved.

FM APPROVED

FBC:
FL41667

STORAGE & HANDLING

Store fasteners and plates in original containers and protected from the weather.

INSTALLATION

On heavier gauge decks, "feather" the trigger of the screw gun to start slowly and then gradually increase speed.

Using a #3 Phillips drill bit and a variable speed, 2,500 RPM screw gun, engage the screw and insulation plate simultaneously into the roof deck for a minimum embedment as listed below:

Steel: Minimum penetration of 3/4" (19.1 mm) below the deck.

Plywood: Minimum penetration of 1" (25.4 mm) below the deck.

Wood plank: Minimum penetration of 1" (25.4) into the deck.

PRECAUTIONS

Eye protection must always be worn while installing screws and plates. Avoid overtightening screws, which may cause compression of insulation or cutting of single ply membranes if barbed plates are allowed to spin past their initial embedment into the membrane.

Safety first! Read all label information, SDS, and precautions before using. For safety information on our products, please visit www.bitec.com.

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SIZES AND PACKAGING

Screw Length	Thread Length	Pieces per Pail	Weight per Pail	Pails per Pallet
1-1/4" 31.8 mm	Full	1,000	14 lbs 6.4 kg	60
2" 50.8 mm	Full	1,000	22 lbs 10.0 kg	60
3" 76.2 mm	Full	1,000	33 lbs 15.0 kg	40
4" 101.6 mm	3" 76.2 mm	1,000	42 lbs 19.1 kg	60
5" 127.0 mm	4" 101.6 mm	500	27 lbs 12.2 kg	60
6" 152.4 mm	4" 101.6 mm	500	32 lbs 14.5 kg	60
7" 177.8 mm	5" 127.0 mm	500	37 lbs 16.8 kg	60
8" 203.2 mm	5" 127.0 mm	500	42 lbs 19.1 kg	60
9" 228.6 mm	5" 127.0 mm	500	46 lbs 20.9 kg	40
10" 254.0 mm	5" 127.0 mm	500	52 lbs 23.6 kg	40
11" 279.4 mm	5" 127.0 mm	500	56 lbs 25.4 kg	40
12" 304.8 mm	5" 127.0 mm	500	61 lbs 27.7 kg	40
14" 355.6 mm	5" 127.0 mm	250	36 lbs 16.3 kg	28
16" 406.4 mm	5" 127.0 mm	250	42 lbs 19.1 kg	24
18" 457.2 mm	5" 127.0 mm	250	46 lbs 20.9 kg	24
20" 508.0 mm	5" 127.0 mm	250	51 lbs 23.1 kg	12
22" 558.8 mm	5" 127.0 mm	125	29 lbs 13.2 kg	ANY
24" 609.6 mm	5" 127.0 mm	125	32 lbs 14.5 kg	ANY

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PHYSICAL / MECHANICAL PROPERTIES

3rd Party Independent (Nemo ETC | SGS SA | Element Materials Technology)			
Tensile	4,429 lbf minimum	4,467 lbf average	ASTM F606 / F606M-2019
Shear Test	2,020 lbf minimum	2,124 lbf average	ASTM F606 / F606M-2019
Torque Test	133 lfb / in minimum	137 lbf / in average	ASTM F606 / F606M-2019
Corrosion Resistance	<5% red rust @ 15 Kesternich cycles		DIN 50018 / ASTM D6294 / FM 4470
	<15% red rust @ 30 Kesternich cycles		DIN 50018 / ASTM D6294 / FM 4470

Anticipated Withdrawal Resistance	
22 Ga, 40 ksi Grade Steel	699 lb average
22 Ga, 80 ksi Grade Steel	724 lb average
19/32" Plywood	685 lb average
NOTE: Withdrawal values are approximated based on results obtained over new, properly installed substrates performing in ideal conditions. Project-specific results may vary based on site-specific conditions. BITEC ultimately defers to the project designer and local code authorities to confirm that their required design criteria have been met.	

All information is given in good faith but normal tolerances of manufacture and testing will apply. BITEC reserves the right to improve and change its products at any time without prior notice or advice. The use of BITEC products is determined by local conditions and individual requirements of each contract. In consideration of the many factors involved, BITEC cannot be held responsible for the improper application of its products and for conditions beyond its control. All claims filed against BITEC warranties will be subject to the provisions set forth at the date of the warranty issuance, and any addendum thereto. Under no circumstances will BITEC be held liable for any damage, whether personal injury or property damage, which occur during or after the application of any BITEC products.

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