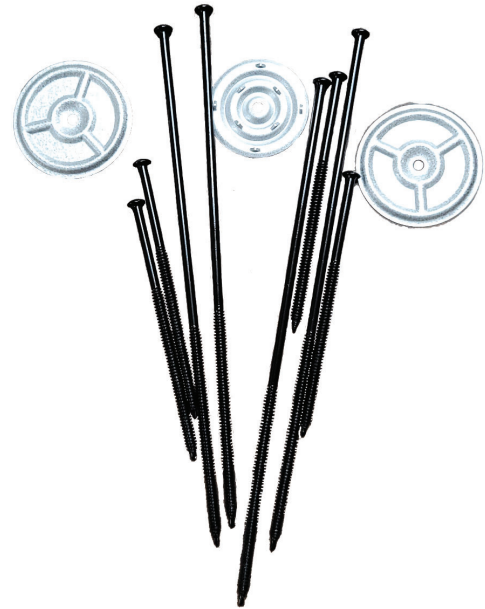


Part Number	Length	Qty per Bucket	Qty per Skid
PA-SS-12(1-5/8)	1 5/8	1,000	60,000
PA-SS-12(2)	2	1,000	60,000
PA-SS-12(2-1/4)	2 1/4	1,000	60,000
PA-SS-12(2-7/8)	2 7/8	1,000	60,000
PA-SS-12(3)	3	1,000	60,000
PA-SS-12(3-1/4)	3 1/4	1,000	60,000
PA-SS-12(3-3/4)	3 3/4	1,000	60,000
PA-SS-12(4)	4	1,000	60,000
PA-SS-12(4-1/2)	4 1/2	1,000	40,000
PA-SS-12(5)	5	1,000	40,000
PA-SS-12(6)	6	1,000	40,000
PA-SS-12(7)	7	1,000	40,000
PA-SS-12(8)	8	1,000	40,000



## DESCRIPTION

Imperfast #12 roofing insulation screws are designed to be used with insulation plates to secure rigid insulation, cover boards, and base sheet to steel or wood structural decks. Screws range from 1-5/8" to 8" in length and meet most commercial applications.

## INSTALLATION

Using a #3 Phillips tip and a variable speed drill, engage the screw and insulation plate into the roof deck as noted below. Threads must engage the deck material as per Technical Specifications.

**For steel decks:** Fastener must penetrate through the deck a minimum distance of 3/4" (19.1 mm).

**For wood decks:** Fastener must penetrate through the deck a minimum distance of 1" (25.4 mm).

## PRECAUTIONS

Imperfast #12 fasteners will not work through existing roof systems or unusual substrates. Store fasteners and plates in original container protected from the weather. Eye protection must be worn at all times while installing screws and plates.

# TECHNICAL DATA

#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 *			

\*FM approval pending.

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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Part Number	Length	Qty per Bucket	Qty per Skid
PA-FS-15(1-1/4)	1 1/4	1,000	60,000
PA-FS-15(2)	2	1,000	60,000
PA-FS-15(3)	3	1,000	40,000
PA-FS-15(4)	4	1,000	60,000
PA-FS-15(5)	5	1,000	30,000
PA-FS-15(6)	6	1,000	30,000
PA-FS-15(7)	7	500	30,000
PA-FS-15(8)	8	500	30,000
PA-FS-15(9)	9	500	20,000
PA-FS-15(10)	10	500	20,000
PA-FS-15(11)	11	500	20,000
PA-FS-15(12)	12	500	20,000

Part Number	Length	Qty per Bucket	Qty per Skid
PA-FS-15(14)	14	250	7,000
PA-FS-15(16)	16	250	6,000
PA-FS-15(18)	18	250	6,000
PA-FS-15(20)	20	250	3,000
PA-FS-15(22)	22	125	Any
PA-FS-15(24)	24	125	Any

### DESCRIPTION

Imperfast #15 roofing insulation screws are designed to be used with insulation plates to secure rigid insulation, cover boards, and base sheet to steel or wood structural decks. Screws range from 1-1/4" to 24" in length and meet most commercial applications.

### INSTALLATION

Using a #3 Phillips tip, and a variable speed drill, engage the screw and insulation plate into the roof deck as noted below. Threads must engage the deck material as per Technical Specifications.

**For steel decks:** Fastener must penetrate through the deck a minimum distance of 3/4" (19.1 mm).

**For wood decks:** Fastener must penetrate through the deck a minimum distance of 1" (25.4 mm).

### PRECAUTIONS

Imperfast #15 fasteners will not work through existing roof systems or unusual substrates. Store fasteners and plates in original container protected from the weather. Eye protection must be worn at all times while installing screws and plates.



# TECHNICAL DATA

#15 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	4429 lbf	4467 lbf	22 Ga, 33 ksi	500lb	579 lb
Shear Test	2020 lbf	2124 lbf	20 Ga, 33ksi	700 lb	525 lb
Torque Test	133 lbf-in	137 lbf-in			
DIN 50018 15 cycles Kesternich	Specification	Average			
Black e-coat	<15 % red rust	<5% red rust Exceeds FM 4470 Requirements *			

*\*FM approval pending.*

Properties	
Property	Typical Performance
Material	Manufactured using SAE 1022 HEAT TREATED STEEL
Threads/Inch	15
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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Imperfast Plates - AZM Coated			
Size	Part#	Qty/Box	Qty / Skid
3" Bullseye Plate	PA-PLT-3IN-IBE	1,000	60,000
3" Wagon Wheel Plate	PA-PLT-3IN-IWW	1,000	60,000
2 3/8" Seam Plate	PA-PLT-2-3/8IN-S	1,000	60,000
2" Seam Plate	PA-PLT-2IN-S	1,000	60,000



**Description:**

Imperfast plates are designed to be used with Imperfast Screws #12 and #15 to secure rigid insulation, base sheet, EPDM, TPO, and PVC to steel or wood structural decks. Plate sizes include 3" Bullseye Insulation, 3" Wagon Wheel Insulation, 2-3/8" Barbed Seam, and 2" Seam Plates to meet a variety of commercial roofing applications.

**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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