

Imperfast Fasteners plates are designed to be used with Imperfast Fasteners #12, #14, and #15 roofing screws to secure roof insulation, cover panels, base sheets, or single ply roofing (EPDM, TPO, or PVC) to steel or wood structural decks. Plate sizes include 3" Bullseye and Wagon Wheel types for insulation and cover panels and a 2-3/8" Barbed and 2" Seam Plates to meet a variety of commercial roofing applications.

## FEATURES & BENEFITS

BITEC Imperfast Fasteners Plates are manufactured with a minimum 150 gram coating of AZM (aluminum, zinc, magnesium), providing significantly better corrosion resistance than the industry standard 55 gram AZ (aluminum and zinc) coating.

Imperfast Fasteners 2-3/8" Barbed Seam Plates are designed with rounded barbs to minimize puncture and cutting into the roof membrane during installation.

Factory Mutual\* and Florida Building Code approved.



FBC:  
FL41667

\*Does not include 2" Seam Plate

## 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](http://www.bitec.com).

## SIZES AND PACKAGING

Plate Type	Thickness	Pieces per Pail	Weight per Pail	Pails per Pallet
3" Bullseye Plate	0.0197" 0.5 mm	1,000	39 lbs 17.7 kg	60
3" Wagon Wheel Plate	0.0197" 0.5 mm	1,000	39 lbs 17.7 kg	60
2-3/8" Barbed Seam Plate	0.0315" 0.8 mm	1,000	40 lbs 18.1 kg	60
2" Seam Plate	0.0315" 0.8 mm	1,000	30 lbs 13.6 kg	60



PHYSICAL / MECHANICAL PROPERTIES

3rd Party Independent (Nemo ETC   SGS SA   Element Materials Technology)			
Plate Type	Pull-Through	Red Rust	Test Standard
3" Wagon Wheel	578 lbf	<0.25% @ 120 hours 0.25% < A < 0.5% @ 240 hours 0.5% < A < 1% @ 360 hours	5001815
3" Bullseye	536 lbf		
2-3/8" Barbed Seam	80 in-lbs minimum		
2" Seam			

NOTE: Pull-through 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 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.*

