

Technical Data Sheet: IB Polymer Gyptec™ Roofing Fastener

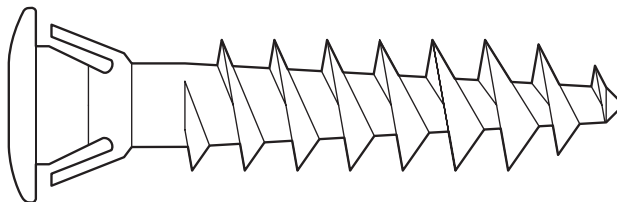
Product Description: The IB Polymer Gyptec™ Roofing Fastener is a glass-filled nylon auger fastener with a 1-in. head designed to secure insulation and Single-Ply membrane to gypsum and cementitious wood fiber (i.e., Insulrock, Permdeck, Tectum®, etc.). The fastener features a wide buttress thread design for excellent pull-out resistance, and tabs that lock the plate to the head of the fastener. The fastener is designed to thread into the substrate but should not penetrate the deck. An internal 1/4-in. square drive (driver bit included) assures fast and easy installation. The fastener is used with 3-in. steel plates for insulation and 2-in. steel plates for membrane attachment. The fastener is Factory Mutual approved and available in lengths from 2.5–12 inches

Advantages:

- Thread design and large root diameter
- Increase pullout resistance and side shear strength
- Made from glass-filled nylon which eliminates corrosion
- Eliminates thermal bridging and condensation
- Yields high tensile strength
- Non-penetrating design — fastener threads into the deck but not through
- The IB Polymer Gyptec Roofing Fastener is F.M. approved for insulation attachment only — see system manufacturer for membrane attachment requirements
- 1/4-in. driver bit included in every box

Application: IB Polymer Gyptec fasteners can be installed into some cementitious wood fiber decks without predrilling. A pilot hole is required for gypsum. Use a 7/16, 1/2 or 9/16 in. drill bit as determined by pullout test results. Pilot holes must be a minimum of 1/2 in. deeper than embedment. The fasteners should be installed using a heavy duty variable speed screw gun. Installation at a low rpm is recommended. Minimum fastener embedment into the deck should be 11/2 in. (2 in. recommended). The fastener should never penetrate the underside of the deck.

IB Polymer Gyptec Roofing Fastener



Cat. No.	Length	Thread Length	Packaging	Weight
GYPTec025	2 1/2"	1.5"	500	13 lbs.
GYPTec030	3"	2.25"	500	16 lbs.
GYPTec035	3 1/2"	2.25"	500	18 lbs.
GYPTec040	4"	2.25"	500	20 lbs.
GYPTec045	4 1/2"	2.25"	500	22 lbs.
GYPTec050	5"	2.25"	500	23 lbs.
GYPTec055	5 1/2"	2.25"	500	24 lbs.
GYPTec060	6"	2.25"	500	26 lbs.
GYPTec065	6 1/2"	2.25"	500	28 lbs.
GYPTec070	7"	2.25"	500	30 lbs.
GYPTec075	7 1/2"	2.25"	500	32 lbs.
GYPTec080	8"	2.25"	250	17 lbs.
GYPTec085	8 1/2"	2.25"	250	19 lbs.
GYPTec090	9"	2.25"	250	20 lbs.
GYPTec095	9 1/2"	2.25"	250	21 lbs.
GYPTec100	10"	2.25"	250	22 lbs.
GYPTec105	10 1/2"	2.25"	250	23 lbs.
GYPTec110	11"	2.25"	250	24 lbs.
GYPTec115	11 1/2"	2.25"	250	25 lbs.
GYPTec120	12"	2.25"	250	26 lbs.
GYPTecBIT	1/4"	N/A	1000	< 1 lb.

The following data is constant for each IB Polymer Gyptec Roofing Fastener.
Thread Diameter: .675 **Diameter:** 1" **Coating:** N/A

IB Polymer Gyptec Roofing Fastener Length Selection Procedure

1. If applicable, determine thickness of existing roofing material.
2. Add thickness of new insulation.
3. Add 3/4" minimum fastener penetration.
4. If odd size requirement, always size up in length, not down.

See example.

Example

Existing Roofing: 1 3/4"
 New Insulation: 1/2"
 Min. Embedment: 2"
 Total Fastening: 4 1/4"
 Range:

Existing Roofing: _____
 New Insulation: _____
 Min. Embedment: 2"
 Total Fastening: _____
 Range:
 Use this format to calculate your correct fastener size.

The proper Heavy Duty Membrane Fastener for this example is 3".

Note: Prior to job bid, contact IB to perform a pullout test to determine drill bit size and the pullout values. Overdriving the fastener can cause damage to the insulation facer.