

Polymer GypTec™

PRODUCT DATA SPECIFICATIONS

PRODUCT DESCRIPTION

The Flex Polymer GypTec™ 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, Permadeck, 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 Polymer GypTec is designed to thread into the substrate but should not penetrate the deck. An internal ¼-in. square drive (**driver bit included**) assures fast and easy installation.

The Polymer GypTec is used with 3-in. steel plates for insulation and 2-in. steel plates for membrane attachment. The Polymer GypTec fastener is Factory Mutual approved and available in lengths from 2.5-in. to 12-in.

FEATURES & BENEFITS

- Thread design and large root diameter:
 - Increase pullout resistance
 - Increase 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 Flex Polymer GypTec is **F.M. approved for insulation attachment only**. See system manufacturer for membrane attachment requirements.
- ¼-in. driver bit included in every box.

APPLICATION

Flex 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-, ½- or 9/16-in. drill bit as determined by pullout test results. Pilot holes must be a minimum of ½-in. deeper than embedment. Polymer GypTec fasteners should be installed using a heavy duty variable speed screw gun. Installation at a low RPM is recommended.

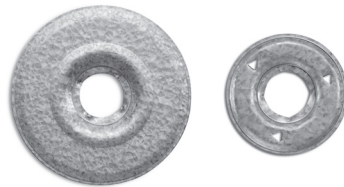
Minimum fastener embedment into the deck should be 1½-in. (2-in. recommended). The Polymer GypTec fastener should never penetrate the underside of the deck.

Note: Prior to job bid, contact Flex to perform a pullout test to determine drill bit size and the pullout values.

Overdriving the fastener can cause damage to the insulation facer.

PLATES & ACCESSORIES

Use 3-in. steel plate for insulation attachment. Use 2-in. steel plate for single-ply membrane attachment. **See Plates section.**



PILOT HOLES

Use a carbide tip drill bit for gypsum and cementitious wood fiber applications.

APPROVALS



Thermoplastic Single Ply and Multi-Ply Roofing Systems

800-969-0108 • 610-916-9501 (Fax)

2670 Leisz's Bridge Road, Suite 400, Leesport, PA 19533
e-mail: flexroof@cs.com • www.flexroofingsystems.com



USE WITH
G
CWF
DECK TYPES

PHYSICAL DATA

The data below is constant for each Polymer GypTec fastener.

HEAD	THREAD
1" Diameter Internal ¼" Square Drive	.675" Diameter 3.5 T.P.I. Buttress
MATERIAL	COATING
Glass-Filled Nylon	NA

ORDERING INFORMATION

CAT. NO.	LENGTH	THREAD	PKG	WEIGHT
GYPTEC025	2.5"	1.5"	500	13 lbs.
GYPTEC030	3"	2.25"	500	16 lbs.
GYPTEC035	3.5"	2.25"	500	18 lbs.
GYPTEC040	4"	2.25"	500	20 lbs.
GYPTEC045	4.5"	2.25"	500	22 lbs.
GYPTEC050	5"	2.25"	500	23 lbs.
GYPTEC055	5.5"	2.25"	500	24 lbs.
GYPTEC060	6"	2.25"	500	26 lbs.
GYPTEC065	6.5"	2.25"	500	28 lbs.
GYPTEC070	7"	2.25"	500	30 lbs.
GYPTEC075	7.5"	2.25"	500	32 lbs.
GYPTEC080	8"	2.25"	250	17 lbs.
GYPTEC085	8.5"	2.25"	250	19 lbs.
GYPTEC090	9"	2.25"	250	20 lbs.
GYPTEC095	9.5"	2.25"	250	21 lbs.
GYPTEC100	10"	2.25"	250	22 lbs.
GYPTEC105	10.5"	2.25"	250	23 lbs.
GYPTEC110	11"	2.25"	250	24 lbs.
GYPTEC115	11.5"	2.25"	250	25 lbs.
GYPTEC120	12"	2.25"	250	26 lbs.

KEY:

S Steel	SC Structural Concrete
W Wood	LC Lightweight Concrete
G Gypsum	LWIC Lightweight Insulating Concrete
P Purlins	CWF Cementitious Wood Fiber



Polymer GypTec™

PRODUCT DATA SPECIFICATIONS

SPECIFICATION

The fastener will be a Flex Polymer GypTec fastener with a 1-in. head and a major thread diameter of .675. The Flex Polymer GypTec will be used with an Flex GypTec 2-in. or 3-in. steel plate depending on the application. The fastener must be **Factory Mutual approved for insulation attachment** and made in America.

APPLICATION

The Flex Polymer GypTec fastener must embed a minimum of 1½-in. (2-in. is recommended, and required for FM applications) into the deck. The fastener should not penetrate the underside of the deck.

The Polymer GypTec fastener can be installed into Tectum® decks without predrilling. A pilot hole is required for gypsum and some cementitious wood fiber decks (Permadeck, Insulrock, etc.). Use a 7/16-, ½-, or 9/16-in. drill bit, as determined by pullout test results. Pilot hole must be ½-in. deeper than embedment.

Note: Prior to job bid, contact Flex to perform pullout test to determine pullout values and pilot hole size. Also, care must be taken not to overdrive the fastener, causing subsequent damage to the insulation facer or single-ply membrane. Fastener must be tight enough so that the plate does not turn.

PHYSICAL DATA

The data below is constant for each Polymer GypTec fastener.

HEAD		THREAD	
1" Diameter	Internal ¼" Square Drive	.675" Diameter	3.5 T.P.I. Buttress
MATERIAL		PACKAGING	
Glass-Filled Nylon		250, 500/carton	

POLYMER GYPTEC LENGTH SELECTION PROCEDURE

1. If applicable, determine the thickness of the existing roofing material.
2. Add thickness of new insulation.
3. Add 1½-inch minimum fastener penetration (**2-in. minimum embedment for all FM insulation attachment applications**). **NOTE:** When predrilling, allow extra ½-inch.
4. If odd size requirement, always size up in length, not down. See example:

	Example:	Your Project:
Existing Roofing	1¾"	_____
New Insulation	½"	_____
Min. Embedment	1½"	1½"
Total Fastening	3¾"	_____
Correct Length	4"	_____

The proper size Polymer GypTec in this example is 4 inches. (**2-in. minimum embedment for all FM insulation attachment applications.**)



Thermoplastic Single Ply and Multi-Ply Roofing Systems

800-969-0108 • 610-916-9501 (Fax)
2670 Leisz's Bridge Road, Suite 400, Leesport, PA 19533
e-mail: flexroof@cs.com • www.flexroofingsystems.com

Polymer GypTec™ is a trademark of OMG, Inc.