



Polymer GypTec® Fastener

PRODUCT DATA SPECIFICATIONS

PRODUCT DESCRIPTION

The OMG Polymer GypTec® Fastener is a glass-filled nylon auger fastener with a 1-in. (25 mm) 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 Fastener is designed to thread into the substrate but should not penetrate the deck. An internal ¼-in. (6 mm) square drive (**driver bit included**) assures fast and easy installation.

The Polymer GypTec is used with 3-in. (75 mm) steel plates for insulation and 2-in. (50 mm) steel plates for membrane attachment. The Polymer GypTec fastener is Factory Mutual approved and available in lengths from 2.5-in. to 12-in. (60 to 305 mm).

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 OMG Polymer GypTec Fastener is **FM approved for insulation attachment only**. See system manufacturer for membrane attachment requirements.
- ¼-in. (6 mm) driver bit included in every box.

APPLICATION

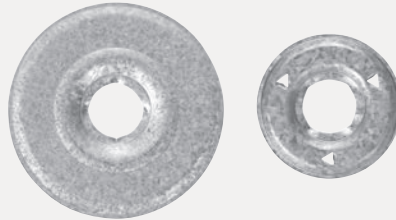
OMG Polymer GypTec Fasteners can be installed into some cementitious wood fiber decks without predrilling. A pilot hole is required for gypsum. Use a ⅜, ½ or ⅝-in. (11, 13 or 14 mm) drill bit as determined by pullout test results. Pilot holes must be a minimum of ½-in. (13 mm) deeper than embedment. 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. (38 mm). (2-in. [50 mm] recommended).

Note: Prior to job bid, contact OMG 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. (75 mm) steel plate for insulation attachment. Use 2-in. (50 mm) steel plate for single-ply membrane attachment.



PILOT HOLES

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

APPROVALS



Factory Mutual listings refer to these products as Polymer GypTec Fastener, 3-in. Polymer GypTec Insulation Plate and Polymer GypTec Metal Plate.



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PHYSICAL DATA*

The data below is constant for each Polymer GypTec fastener.

HEAD	THREAD
1" (25 mm) Diameter Internal ¼" (6 mm) Square Drive	.675" (17 mm) Diameter 3.5 T.P.I. Buttress
MATERIAL	COATING
Glass-Filled Nylon	NA

ORDERING INFORMATION

CAT. NO.	LENGTH IN (MM)	THREAD IN (MM)	PKG QTY	WEIGHT LBS (KG)
GYPTec025	2.5 (60)	1.5 (38)	500	13 (5.90)
GYPTec030	3 (75)	2.25 (57)	500	16 (7.26)
GYPTec035	3.5 (90)	2.25 (57)	500	18 (8.17)
GYPTec040	4 (100)	2.25 (57)	500	20 (9.08)
GYPTec045	4.5 (115)	2.25 (57)	500	22 (9.98)
GYPTec050	5 (125)	2.25 (57)	500	23 (10.44)
GYPTec055	5.5 (140)	2.25 (57)	500	24 (10.89)
GYPTec060	6 (150)	2.25 (57)	500	26 (11.80)
GYPTec065	6.5 (165)	2.25 (57)	500	28 (12.71)
GYPTec070	7 (175)	2.25 (57)	500	30 (13.62)
GYPTec075	7.5 (190)	2.25 (57)	500	32 (14.52)
GYPTec080	8 (200)	2.25 (57)	250	17 (7.71)
GYPTec085	8.5 (215)	2.25 (57)	250	19 (8.62)
GYPTec090	9 (230)	2.25 (57)	250	20 (9.08)
GYPTec095	9.5 (240)	2.25 (57)	250	21 (9.53)
GYPTec100	10 (255)	2.25 (57)	250	22 (9.98)
GYPTec105	10.5 (265)	2.25 (57)	250	23 (10.44)
GYPTec110	11 (280)	2.25 (57)	250	24 (10.89)
GYPTec115	11.5 (290)	2.25 (57)	250	25 (11.35)
GYPTec120	12 (305)	2.25 (57)	250	26 (11.80)
PLATES	SIZE		PKG QTY	WEIGHT LBS (KG)
SPGYPTec2	2 (50)	N/A	1000	30 (13.62)
SPGYPTec3	3 (75)	N/A	1000	46 (20.88)

*All sizes are nominal.



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SPECIFICATION

The fastener will be an OMG Polymer GypTec Fastener with a 1-in. (25 mm) head and a major thread diameter of .675-in. (15.1 mm). The OMG Polymer GypTec Fastener will be used with an OMG GypTec 2-in. (50 mm) or 3-in. (75 mm) steel plate depending on the application. The fastener must be **Factory Mutual approved for insulation attachment**.

APPLICATION

The OMG Polymer GypTec Fastener must embed a minimum of 1½-in. (38 mm) (2-in. [51 mm] is recommended, and required for FM applications) into 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, 1/2 or 9/16-in. (11, 13 or 14 mm) drill bit, as determined by pullout test results. Pilot hole must be 1/2-in. (13 mm) deeper than embedment.

Note: Prior to job bid, contact OMG 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" (25 mm) Diameter	Internal 1/4" (6 mm) Square Drive	.675" (15.1 mm) Diameter	3.5 T.P.I. Buttress
MATERIAL		PACKAGING	
Glass-Filled Nylon		250, 500/carton	

*All sizes are nominal.

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-in. (38 mm) minimum fastener penetration (**2-in. [51 mm] minimum embedment for all FM insulation attachment applications**). **NOTE:** When predrilling, allow extra 1/2-in. (13 mm).
4. If odd size requirement, always size up in length, not down. See example:

	Example:	Your Project:
Existing Roofing	1¾" (45 mm)	_____
New Insulation	½" (13 mm)	_____
Min. Embedment	1½" (38 mm)	1½" (38 mm)
Total Fastening	3¾" (95 mm)	_____
Correct Length	4" (100 mm)	_____

The proper size Polymer GypTec Fastener in this example is 4-in. (100 mm). (**2-in. [51 mm] minimum embedment for all FM insulation attachment applications.**)



ROOFING PRODUCTS

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