

Polymer Gyptec® Fastener

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 membrane to gypsum and cementitious wood fiber decks. It is used in conjunction with 3" Gyptec plates for insulation attachment and 2" Gyptec barbed seam plates for membrane attachment. 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.

Sizes:

2-1/2" - 12" (All lengths are special order – see table)

Packaging:

The fasteners come pre-packaged in a plastic bucket. See table for quantity and weights. Includes one driver bit.

Features:

- Thread design and large root diameter for increased pull-out resistance, increased side shear strength, and yields high tensile strength
- Made from glass-filled nylon which eliminates corrosion, eliminates thermal bridging and condensation issues

Approvals:

- Factory Mutual (F.M.) only with 2" embedment

Application:

Polymer GypTec Fasteners can be installed into some cementitious wood fiber decks without pre-drilling. A pilot hole is required for gypsum. Use a 7/16", 1/2", or 9/16" drill bit as determined by pullout test results. Pilot holes must be a minimum of 1/2" deeper than embedment. Polymer GypTec fasteners should be installed using a heavy-duty variable speed screw gun, drive the fastener until a slight depression is seen around the plate, or with very rigid insulation boards, watch for the plate to dimple. Installation at a low RPM is recommended. Minimum fastener embedment into the deck should be 1-1/2" min. (2" is recommended). Note: Care must be taken not to overdrive the fastener and fracture the skin of the insulation. Fastener must be tight enough so that the plate does not turn.

Pilot Hole Information:

Use a carbide tip drill bit for gypsum and cementitious wood fiber applications. Refer to IB Specifications and Construction Details for installation instructions and fastening patterns. Contact IB Technical Services for additional information.

Fastener Sizing Guide: (example)

Existing Roof Thickness	3.0-in
New Insulation Thickness	1.5-in
Minimum Embedment (FM requires 2")	1.5-in.
Total Fastening Length	6.0-in
Correct Fastener Length ≥ to total fastening length required	6.0 to 6.5-in
*Confirm deck thickness and avoid penetrating underside.	



Fastener Length	Thread Length	Packaging	Weight (lbs.)
*2-1/2"	1-1/2"	500	13
*3"	2-1/4"	500	16
*3-1/2"	2-1/4"	500	18
*4"	2-1/4"	500	20
*4-1/2"	2-1/4"	500	22
*5"	2-1/4"	500	23
*5-1/2"	2-1/4"	500	24
*6"	2-1/4"	500	26
*6-1/2"	2-1/4"	500	28
*7"	2-1/4"	500	30
*7-1/2"	2-1/4"	500	32
*8"	2-1/4"	250	17
*8-1/2"	2-1/4"	250	19
*9"	2-1/4"	250	20
*9-1/2"	2-1/4"	250	21
*10"	2-1/4"	250	22
*10-1/2"	2-1/4"	250	23
*11"	2-1/4"	250	24
*11-1/2"	2-1/4"	250	25
*12"	2-1/4"	250	26

*Size is not stocked. Special order only.
Note: Thread length measured from tip of drill point to end of threads

Fastener Properties	
Fastener Dimensions	
Head	Flat with internal 1/4" square drive
Head Height	.117"
Head Diameter	1.0"
Thread Diameter	.675"
Buttress Threads	3.5 per inch (max 2.25")
Material	Glass-Filled Nylon

Product details stated are nominal as manufactured, and the results of tests and/or calculations and therefore are non-binding and do not represent a guarantee or warranted characteristics. User and/or designer are responsible for confirming suitable performance for specific application and conforming with all applicable laws and regulations.