

## **DRILL-TEC** DLYMER GYPTEC® FASTENER

• 1/4" (6.35 mm) driver bit included in every box.

Use 3" (76 mm) steel plate for insulation & 2"

Use a carbide-tip drill bit for gypsum and

GvpTec® Fastener with a 1" (25.4 mm) head

and a major thread diameter of 0.675" (17.1

mm). Drill-Tec<sup>™</sup> Polymer GypTec<sup>®</sup> will be used

with a Drill-Tec<sup>™</sup> GypTec<sup>®</sup> 2" (51 mm) or 3" (76

mm) steel plate depending on the application.

The fastener must be Factory Mutual Approved

0.675" (17.1 mm)

3.5 T.P.I. Buttress

Glass-filled Nylon

1 ½" (38,1 mm)

(57.2 mm)

2 <sup>1</sup>/4" (57.2 mm)

(57.2 mm)

(57.2 mm)

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250 or 500 per carton

1" (25.4 mm) Diameter

Internal 1/4" (6.35 mm) Square Drive

скадing (Box)

500

500

500

500

500

500

500

500

500

500

500

250

250

250

250

250

250

250

250

250

13 lb. (5.9 kg)

16 lb. (7.26 kg)

18 lb. (8.16 kg)

20 lb. (9.07 ka)

22 lb. (9.98 kg)

23 lb. (10.43 kg)

24 lb. (10.89 kg)

26 lb. (11.79 ka)

28 lb. (12.7 kg)

30 lb. (13.61 kg)

32 lb. (14.52 kg)

17 lb. (7.71 kg)

19 lb. (8.62 kg)

20 lb. (9.07 kg)

21 lb. (9.53 kg)

22 lb. (9.98 kg)

23 lb. (10.43 kg)

24 lb. (10.89 kg)

25 lb. (11.34 ka)

26 lb. (11.79 kg)

cementitious wood fiber applications.

The fastener will be a Drill-Tec<sup>™</sup> Polymer

(51 mm) steel plate for single-ply membrane

**Plates & Accessories** 

for insulation attachment.

Product Data

Head Style

Head Size

Diameter

Thread

Material

Packaging

2 <sup>1</sup>/2" (64 mm)

3.0" (76 mm)

3 <sup>1</sup>/2" (89 mm)

4.0" (102 mm)

4<sup>1</sup>/2" (114 mm)

5.0" (127 mm)

5<sup>1</sup>/2" (140 mm)

6.0" (152 mm)

6<sup>1/2</sup>" (165 mm)

7.0" (178 mm)

7<sup>1</sup>/2" (191 mm)

8.0" (203 mm)

8<sup>1</sup>/2" (216 mm)

9.0" (227 mm)

9<sup>1</sup>/2" (241 mm)

10.0" (254 mm)

10<sup>1</sup>/2" (267 mm)

11.0" (279 mm)

11<sup>1</sup>/2" (292 mm)

12.0" (305 mm)

Note: All sizes are nominal.

Major Thread

attachment

Specifications

## Description

Drill-Tec<sup>™</sup> Polymer GypTec<sup>®</sup> Fastener is a glass-filled nylon auger fastener with 1" (25.4 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. Drill-Tec<sup>™</sup> Polymer GypTec<sup>®</sup> is designed to thread into the substrate but should not penetrate the deck. An internal 1/4" (6.35 mm) square (driver bit included) assures fast and easy installation.

Drill-Tec<sup>™</sup> Polymer GypTec<sup>®</sup> Fastener is used with Drill-Tec<sup>™</sup> 3" (76 mm) GypTec<sup>®</sup> Plate for insulation and Drill-Tec<sup>™</sup> 2" (51 mm) GypTec<sup>®</sup> Plate for membrane attachment. Drill-Tec" Polymer GypTec<sup>®</sup> Fastener is Factory Mutual approved and available in lengths from 2  $\frac{1}{2}$ " – 12" (64 – 305 mm).

Application

Drill-Tec<sup>™</sup> Polymer GypTec<sup>®</sup> Fasteners can be installed into some cementitious wood fiber decks without predrilling. A pilot hole is required for gypsum. Use a 7/16" (11.1 mm),  $\frac{1}{2}"$  (12.7 mm) or 9/16" (14.3 mm) drill bit as determined by pullout test results. Pilot holes must be a minimum of 1/2" (12.7 mm) deeper than embedment. Drill-Tec<sup>™</sup> Polymer GvpTec® Fasteners should be installed using a heavy-duty variable speed screw gun. Installation at a low rpm is recommended. Minimum fasteners embedment into the deck should be 1 1/2" (38.1 mm) (2" [51 mm] recommended).

Note: 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.

Note: GypTec<sup>®</sup> is a registered trademark of OMG. **Code Approvals** 



**Advantages** 

- Thread design and large rot diameter:
- Increase pull-out resistance
- Increase side shear strength
- Made from glass-filled nylon, which: Eliminates corrosion
- Eliminates thermal bridging and condensation - Yield high tensile strength
- Non-penetrating design. Fastener threads
  - into the deck but not through.

• The Drill-Tec<sup>™</sup> Polymer GypTec<sup>®</sup> is **FM** Approved for insulation attachment only. See system manufacturer for membrane attachment requirements

Example: Drill-Tec<sup>™</sup> Polymer GypTec<sup>®</sup> Fastener Selection Procedure

If applicable, determine thickness of existing roofing material.
Add thickness of new insulation.

Add 1 ½" (38.1 mm) minimum fastener penetration (2" [51 mm] minimum embedment for all FM insulation attachment applications).
NOTE: When predrilling, allow extra ½" (12.7 mm). If odd size requirement, always size up in length, not down.

See example:			
Example		Use this format to calculate correct fastener size:	
Existing Roofing:	1 ¾" (44.4 mm)	Existing Roof:	
New Insulation:	+ ½" (12.7 mm)	New Insulation:	+
Min. Embedment:	+ <u>1½" (38.1 mm)</u>	Min. Embedment:	+ <u>1½"(38.1 mm)</u>
Total Fastening Range:	= 3 ¾" (95.3 mm)	Total Fastening Range:	=
The proper Drill-Tec <sup>™</sup> Polymer GypTec <sup>®</sup> for the example is 4" (102 mm).		The proper Drill-Tec <sup>®</sup> Polymer GypTec <sup>™</sup> is:	

**Drill-Tec**<sup>™</sup> Polymer **GypTec®** Fastener

