

## CARLISLE'S GYPTec FASTENERS AND PLATES



### Fasteners

The GypTec Fastener is a glass-filled nylon auger fastener designed for securing mechanically attached membranes, insulation or Reinforced Universal Securement Strip (RUSS) to specialty decks such as cementitious wood fiber and gypsum. The fastener features a wide buttress thread design for excellent pullout resistance, and tabs that lock the plate to the head of the fastener. The GypTec Fastener is designed to thread into the substrate but not protrude through the underside of the deck. The fastener has a ¼" square drive. The GypTec Fastener is Factory Mutual approved and available in lengths from 2 ½" to 10".

### Plates

The GypTec Fastener is used with a 3" (26-gauge) steel plate for insulation and a 2" (22-gauge) steel plate for membrane attachment. GypTec Plates are stamped from Galvalume-coated steel for long-term protection against corrosion. The round design provides an even distribution of loads and eliminates sharp corners that can damage the insulation or membrane.

### Installation

Drill the pilot hole (if necessary) using a carbide tip bit. Insert the fastener through the appropriate plate and tighten into the deck using a heavy-duty, variable-speed screw gun. Installation at a low rpm is recommended. The minimum deck penetration is 1-½" (for FM compliance a minimum 2" embedment is required). If fastener breakage (twisting off) is encountered, try alternate pilot hole sizes (referenced in the notes section), making sure that the pullout value is acceptable.

### Notes

1. A pre-drilled pilot hole is necessary for gypsum and some cementitious fiber decks. Use a 7/16", 1/2" or 9/16" carbide tip bit to drill pilot hole. The bit size is determined by pullout test results and ease of installation.
2. Minimum fastener embedment into any deck is 1-½" (for FM compliance a minimum 2" embedment is required).
3. Please refer to Carlisle's Design Criteria for required withdrawal resistance criteria and fastening patterns.

### Precautions

1. The pilot hole must be pre-drilled to a sufficient depth to prevent contact between the fastener tip and any accumulated dust in the pre-drilled hole.
2. The fastener should not penetrate the underside of the deck.
3. Eye protection is recommended during drilling and installation.

### GypTec Fasteners

Size, In	Thread Length, In	Weight/Carton, lb	Fasteners/Carton
2 ½	1 ½	13	500
3	2 ¼	16	500
3 ½	2 ¼	18	500
4	2 ¼	20	500
4 ½	2 ¼	22	500
5	2 ¼	23	500
5 ½	2 ¼	24	500
6	2 ¼	26	500
6 ½	2 ¼	28	500
7	2 ¼	30	500
7 ½	2 ¼	32	250
8	2 ¼	17	250
8 ½	2 ¼	19	250
9	2 ¼	20	250
9 ½	2 ¼	21	250
10	2 ¼	22	250

**Investing in Roofing Solutions for Over 45 Years**

800-4-SYNTec • P.O. Box 7000 • Carlisle, PA 17013 • Fax: 717-245-7053 • [www.carlisle-syntec.com](http://www.carlisle-syntec.com)

Carlisle is a trademark of Carlisle.

REPRINT CODE: 605126 - "GypTec Fasteners and Plates Product Data Sheet" - 041910 © 2010 Carlisle.



Carlisle Syntec