

CARLISLE SURE-SEAL® HP NTB FASTENERS

GENERAL:

The HP NTB is a glass-filled nylon fastener designed for securing mechanically fastened membranes, insulation or RUSS™ strips to specialty decks such as cement wood fiber, gypsum, or lightweight concrete decks. The design incorporates locking wire barbs which, when engaged into the deck, can increase pullout and backout resistance of marginal decks.

TYPICAL PROPERTIES AND CHARACTERISTICS:

Size, in (mm)	Thread Length, in (mm)	Weight / Carton, lb (kg)	Fasteners / Carton
2-1/2 (64)	Full	15 (6.8)	500
3 (76)	2-3/4 (70)	18 (8.2)	500
3-1/2 (89)	2-3/4 (70)	19 (8.6)	500
4 (102)	2-3/4 (70)	21 (9.5)	500
4-1/2 (114)	2-3/4 (70)	23 (10.4)	500
5 (127)	2-3/4 (70)	26 (11.8)	500
5-1/2 (140)	2-3/4 (70)	28 (12.7)	500
6 (152)	2-3/4 (70)	30 (13.6)	500
6-1/2 (165)	2-3/4 (70)	31 (14.1)	500
7 (178)	2-3/4 (70)	32 (14.5)	500
7-1/2 (191)	2-3/4 (70)	34 (15.4)	500
8 (203)	2-3/4 (70)	36 (16.3)	500
8-1/2 (216)	2-3/4 (70)	38 (17.2)	500
9 (229)	2-3/4 (70)	20 (9.1)	250
9-1/2 (241)	2-3/4 (70)	21 (9.5)	250
10 (254)	2-3/4 (70)	22 (10.0)	250

1. A 3 inch steel plate is available for insulation attachment. A 2 inch steel plate is available for membrane attachment.
2. A pre-drilled pilot hole is necessary for gypsum, lightweight concrete and some cement fiber decks. Use a 7/16, 1/2 or 9/16 inch (11, 13 or 14 mm) carbide tip bit to drill pilot hole. The bit size is determined by pullout test results and ease of installation.
3. Minimum fastener embedment into any deck is 1-1/2 inches.

CAUTIONS AND WARNINGS:

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.

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 standard screw gun. The minimum deck penetration is 1-1/2 inches. If fastener breakage (twisting off) is encountered, try alternate pilot hole sizes (referenced above) making sure that the pullout value is acceptable. The wire barbs can be engaged into the deck to increase pullout resistance. Use the NTB Eliminator drill attachment to engage the barbs.

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