

GYP SUM, TECTUM® & LIGHTWEIGHT



Thermoplastic Single Ply and Multi-Ply Roofing Systems

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PRODUCT DESCRIPTION

The Flex NTB-1HWO is a glass-filled nylon auger fastener with a 1" head. It is designed to secure insulation to gypsum, all cementitious wood fiber decks (Permadeck, Insulrock, Tectum®, etc.) and certain lightweight concrete decks.

The NTB-1HWO may be used with a 3" steel plate for insulation attachment. The NTB-1HWO is available in 2 1/2" to 10" lengths.

APPLICATION

The Flex NTB-1HWO can be installed into Tectum® decks without predrilling. A pilot hole is required for gypsum, lightweight concrete and some cementitious wood fiber. Use a 7/16", 1/2" or 9/16" drill bit. Diameter of drill bit is determined by pullout test results. Hole depth must be 1/2" deeper than embedment.

Minimum fastener embedment into the deck should be 1 1/2" (2" recommended). The NTB fastener should never penetrate the underside of the deck.

The use of a 3" plate is required for securing insulation.

Note: Prior to job bid, contact Flex to perform a pullout test to determine drill bit size and the pullout values. Also, care must be taken not to overdrive the fastener causing subsequent damage to the insulation facer.

NTB®-1HWO



Fast Facts

The Flex NTB-1HWO with a 1" head is a glass-filled nylon auger fastener designed to secure insulation to gypsum, all cementitious wood fiber, Tectum® and certain lightweight concrete decks.

FEATURES & BENEFITS

- Thread design & 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

PLATES & ACCESSORIES

Use 3" steel plate. See Plates section.

Use a carbide tip drill bit for gypsum, lightweight concrete and some cementitious wood fiber applications.

PHYSICAL DATA

		Cat. No.	Length	Packaging	Weight
The data below is constant for each Flex NTB-1HWO.		NTB1025WO	2½"	500	13 lb
		NTB1030WO	3"	500	15 lb
		NTB1035WO	3½"	500	17 lb
Head Size: 1" Diameter		NTB1040WO	4"	500	19 lb
Head Style: Double Internal Hex Drive		NTB1045WO	4½"	500	21 lb
		NTB1050WO	5"	500	24 lb
Major Thread Diameter: .750		NTB1055WO	5½"	500	26 lb
Thread: 3.5 T.P.I. Buttress		NTB1060WO	6"	500	28 lb
Material: Glass-Filled Nylon		NTB1065WO	6½"	500	29 lb
		NTB1070WO	7"	500	30 lb
		NTB1075WO	7½"	500	32 lb
		NTB1080WO	8"	250	16 lb
		NTB1085WO	8½"	250	17 lb
		NTB1090WO	9"	250	18 lb
		NTB1095WO	9½"	250	19 lb
		NTB1100WO	10"	250	20 lb

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SPECIFICATION

The fastener will be a Flex NTB-1HWO Fastener with a 1" head and a major thread diameter of .750. The Flex NTB-1HWO will be used with a Factory Mutual approved Flex steel or plastic plate or batten bar. The fastener must be Factory Mutual approved and made in America.

APPLICATION

The Flex NTB-1HWO Fastener must penetrate the deck a minimum of 1 1/2" (2" recommended). The fastener must not penetrate the underside of the deck.

The Flex NTB-1HWO can be installed into Tectum® decks without predrilling. A pilot hole is required for gypsum, lightweight concrete and some cementitious wood fiber decks (Permadeck, Insulrock, etc.). Use a 7/16", 1/2" or 9/16" drill bit. Diameter of drill bit is determined by pullout test results. Hole depth must be 1/2" deeper than embedment. Diameter of hole is determined by pullout results.

Note: Prior to job bid, contact Flex to perform pullout test to determine drill bit size and the pullout values. Also, care must be taken not to overdrive the fastener, causing subsequent damage to the insulation facer. Fastener must be tight enough so that the plate doesn't turn.

PHYSICAL DATA

Head Style: Double Internal Hex Drive Head Size: 1" Thread: 3.5 T.P.I.

Major Thread Diameter: .750 Material: Glass-Filled Nylon Packaging: 250, 500/carton

NTB-1HWO LENGTH SELECTION PROCEDURE

1. If applicable, determine thickness of existing roofing material.
2. Add thickness of new insulation.
3. Add 1 1/2" minimum fastener penetration.
4. If odd size requirement, always size up in length, not down. See example.

Note: When predrilling, allow extra 1/2".

Example

Existing Roofing: 1 3/4"

New Insulation: 1/2"

Min. Embedment: 1 1/2"

Total Fastening 3 3/4"

Range:

The proper NTB-1HWO for this example is 4" (**2" minimum embedment for all FM applications.**)

Existing Roofing: _____

New Insulation: _____

Min. Embedment: 1 1/2"

Total Fastening _____

Range:

Use this format to calculate your correct fastener size.



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