**Fast Facts**

The Drill-Tec NTB-1HWW with 1” head and locking wire barbs is a glass-filled nylon auger fastener designed to secure insulation and single-ply membrane to gypsum, all cementitious wood fiber decks, Tectum® and certain lightweight concrete decks.

**Features & Benefits**

- **Locking wire barbs:**
  - Prevent back-out
  - Increase pull-out resistance in marginal decks
- **Thread design & large root diameter:**
  - Increase pull-out resistance
  - Increase side shear strength
- **Made from glass-filled nylon which:**
  - Eliminates corrosion
  - Eliminates thermal bridging and condensation
  - Yields high tensile strength
- **The Drill-Tec NTB-1HWW is FM and Dade County approved.**

**Plates & Accessories**

Use a 3” steel plate, 2” steel plate (with barbs), or batten bar. Use an NTB Eliminator drill attachment. Use a carbide tip drill bit for gypsum, lightweight concrete and some cementitious wood fiber applications.
DRILL-TEC™ NTB®-1HWW
WITH LOCKING WIRE BARBS

SPECIFICATIONS

The fastener will be a Drill-Tec™ NTB-1HWW Fastener with a 1” head, locking wire barbs, and a major thread diameter of .750. The Drill-Tec NTB-1HWW will be used with a Factory Mutual approved, Drill-Tec steel or plastic plate or pressure bar. The fastener must be Factory Mutual approved and made in the U.S.

APPLICATION

The Drill-Tec NTB-1HWW Fastener must penetrate the deck a minimum of 1-1/2” (2” recommended). The fastener must not penetrate the underside of the deck. The most effective method of engaging the wire barbs during installation is with the NTB Eliminator drill attachment.

The Drill-Tec NTB-1HWW can be installed into Tectum® decks without pre-drilling. 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” carbide tip drill bit. Diameter of drill bit is determined by pull-out test results. Hole depth must be 1/2” deeper than embedment.

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

EXAMPLE

DRILL-TEC NTB-1HWW 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.

Example

| Existing Roofing: | _________ |
| New Insulation: | _________ |
| Min. Embedment:  | 1-1/2”    |
| Total Fastening Range | _________ |

Existing Roofing: 1 3/4”
New Insulation: 1/2”
Min. Embedment: 1 1/2”
Total Fastening Range 3-3/4”

The proper NTB-1HWW for this example is 4”. (2” minimum embedment for all FM applications.)