

# Drill-Tec™ Fluted Nail

## Specification Sheet

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# STRUCTURAL CONCRETE



# DRILL-TEC™

## PRODUCT DESCRIPTION

The Drill-Tec Fluted Nail is a hammer-in, non-threaded fastener designed to secure insulation to a structural concrete deck. This fastener is available in 1 1/2" - 8" lengths. The Fluted Nail is Factory Mutual and Dade County approved.

## APPLICATION

Predrill a 3/16" hole using an SDS or straight shank bit. The fastener is then installed with a 2 lb. short handle sledge hammer.

Minimum fastener embedment into the deck should be 1". The predrilled hole must be a minimum of 1/2" deeper than fastener embedment.

**Note:** Be careful not to overdrive the fastener, causing subsequent damage to the insulation facer.

## DRILL-TEC FLUTED NAIL CONCRETE FASTENER



## Fast Facts

The Drill-Tec Fluted Nail concrete fastener is designed for attaching insulation and single-ply membrane to structural concrete.

### FEATURES & BENEFITS

- The Drill-Tec Fluted Nail is F.M. and Dade County approved.
- Spiral flutes greatly increase pullout resistance.
- Diamond point prevents hole damage.
- Available in 1/2" increments.

### COATING

Drill-Tec CR-10 corrosion resistant coating. Coating exhibits less than 15% red rust after 30 Kesternich cycles. This coating exceeds F.M. Approval Standard 4470.

### PLATES & ACCESSORIES

Use 2" or 3" steel or plastic plates, depending on the application. See Plates section.

Use a 3/16" carbide tip SDS or straight shank drill bit.

PHYSICAL DATA		SKU #	Length	Packaging	Weight
The data below is constant for each Drill-Tec Fluted Nail.		455O	1½"	500	10 lb
		455P	2"	500	12 lb
Head Diameter: .435		455Q	2½"	500	14 lb
		455R	3"	500	16 lb
Head Height: .118		455S	3½"	500	19 lb
		455T	4"	500	21 lb
Head Style: Flat Top Pan		455U	4½"	500	24 lb
		455V	5"	500	26 lb
Shank Diameter: .215		455W	5½"	500	28 lb
		455X	6"	500	30 lb
Coating: CR-10		455Y	7"	500	34 lb
		455Z	8"	500	39 lb

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## DRILL-TEC™ FLUTED NAIL CONCRETE FASTENER

### SPECIFICATION

The fastener will be a Drill-Tec Fluted Nail. The diameter across the flutes must be a minimum of .215. The fastener will be used with a Factory Mutual approved, Drill-Tec round pressure plate or pressure bar. The fastener must be Factory Mutual approved and made in America.

### COATING REQUIREMENT

The fastener will be coated with the Drill-Tec CR-10 corrosion resistant coating. When subjected to 30 Kesternich cycles (DIN 50018), the fastener must show less than 15% red rust and surpass Factory Mutual Approval Standard 4470.

### APPLICATION

Predrill a 3/16" hole using a carbide tip SDS or straight shank bit. The Fluted Nail is then installed with a 2 lb. short handle sledge hammer.

Minimum fastener embedment into the deck should be 1". The predrilled hole must be a minimum of 1/2" deeper than fastener embedment.

**Note:** Be careful not to overdrive the fastener, causing subsequent damage to the insulation facer.

### PHYSICAL DATA

Shank Diameter: .215 Head Style: Flat Top Pan Head Height: .118

Packaging: 500/carton

### DRILL-TEC FLUTED NAIL LENGTH SELECTION PROCEDURE

1. If applicable, determine thickness of existing roofing material.
2. Add thickness of new insulation.
3. Add 1" minimum fastener penetration.

**NOTE:** When predrilling, allow extra 1/2".

4. If odd size requirement, always size up in length, not down. See example.

#### Example

Existing Roofing:	<u>1 3/4"</u>
New Insulation:	<u>1/2"</u>
Min. Embedment:	<u>1 "</u>
Total Fastening Range	<u>3 1/4"</u>

The proper Fluted Nail for this example is 3 1/2".

Existing Roofing:	_____
New Insulation:	_____
Min. Embedment:	<u>1"</u>
Total Fastening Range	_____

Use this format to calculate your correct fastener size.