

Drill-Tec™ LD Fastener

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North America's Largest Roofing Manufacturer!™*



DRILL-TEC™ LD FASTENER

Description

Drill-Tec™ LD (Lite-Deck) Fastener is designed to secure insulation to gypsum, all cementitious wood fiber decks (Permadeck, Insulrock, Tectum®, etc.) It is available in lengths from 2-5/8" - 12" (66.7 – 305 mm). The Drill-Tec™ LD Fastener is Factory Mutual and Miami-Dade County Product Control approved.

Application

The Drill-Tec™ LD Fastener can be installed into cementitious wood fiber decks without predrilling. A pilot hole is required for gypsum. Hole size is determined by pull-out results.

The Drill-Tec™ LD Fastener must penetrate the deck a minimum of 2" (51 mm). Using a screwshooter, drive the fastener until a slight depression is seen around the plate or, with very rigid insulation boards, watch for the plate to dimple.

Note: Be careful not to overdrive the fastener, causing subsequent damage to the insulation facer. Fastener must be tight enough so that the plate doesn't turn.

Code Approvals



Advantages

- The Drill-Tec™ LD Fastener is FM and Miami-Dade County Product Control approved.
- Deep, coarse thread provides high pull-out resistance.
- Can be installed into cementitious wood fiber decks without predrilling.

Plates & Accessories

- A specially designed 3" (76 mm) steel plate or batten bar can be used when securing insulation or membrane.
- For best application results, use a high-torque, variable-speed screw gun.

Drill-Tec™
LD Fastener



Specifications

The fastener will be a Drill-Tec™ LD Fastener with a shank diameter of .312 (7.92 mm) and a thread diameter of .375 (9.53 mm). The fastener must have an 90° flat head with a 6-Lobe drive. The Drill-Tec™ LD Fastener will be used with a specially designed, Factory Mutual-approved Drill-Tec™ 3" (76 mm) Steel Plate or Pressure Bar. The fastener must be Factory Mutual approved.

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.

Product Data

Thread Diameter	.375" (9.53 mm)
Shank Diameter	.312" (7.92 mm)
Head Diameter	.712" (18.1 mm)
Head Style	6-Lobe Drive Flat Head*
Coating	CR-10

*6-Lobe T40 BIT included in each carton.

Length	Thread Length	Packaging (Box)	Weight
2 5/8" (66.7 mm)	Full	500	32 lb (14.52 kg)
3" (76 mm)	2 5/8" (66.7 mm)	500	36 lb (16.33 kg)
4" (102 mm)	3" (76 mm)	500	47 lb (21.32 kg)
5" (127 mm)	3" (76 mm)	250	30 lb (13.61 kg)
6" (152 mm)	3" (76 mm)	250	36 lb (16.33 kg)
7" (178 mm)	3" (76 mm)	250	41 lb (18.60 kg)
8" (203 mm)	3" (76 mm)	250	46 lb (20.87 kg)
9" (227 mm)	3" (76 mm)	125	26 lb (11.79 kg)
10" (254 mm)	3" (76 mm)	125	29 lb (13.15 kg)
12" (305 mm)	3" (76 mm)	125	34 lb (15.42 kg)

Example: Drill-Tec™ LD Fastener Length Selection Procedure

1. If applicable, determine thickness of existing roofing material.
 2. Add thickness of new insulation.
 3. Add 2" (51 mm) minimum fastener penetration.
- Note:** When pre-drilling, allow extra 1/2" (12.7 mm).
4. If odd size requirement, always size up in length, not down. See example below.

Example

Existing Roofing:	1 3/4" (44.4 mm)
New Insulation:	+ 1/2" (12.7 mm)
Min. Embedment:	+ 2" (51 mm)
Total Fastening Range:	= 4 1/4" (108 mm)

The proper LD Fastener for the example is 5" (127 mm).

Use this format to calculate correct fastener size:

Existing Roof:	
New Insulation:	+
Min. Embedment:	+ 2" (51 mm)
Total Fastening Range:	=

The proper LD Fastener is: