

Drill-Tec™ CD-10 Fastener

Data Sheet

Updated: 1/10



***Quality You Can Trust Since 1886...
From North America's Largest Roofing Manufacturer™***



DRILL-TEC™

CD-10 FASTENER

Use
With:
**Structural
Concrete**

Description

The Drill-Tec™ CD-10 is a hammer-in, non-threaded fastener designed to secure insulation and single-ply membrane to structural concrete. This fastener is available in 2" - 12" lengths. The CD-10 is Factory Mutual and Dade County approved.

Application

Predrill a 7/32" hole using a carbide drill 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.

Code Approvals



Advantages

- Diamond point allows easier installation and less chance of hole damage.
- Split bulb exerts pressure on walls of hole, producing remarkable holding power.
- Strongest hammer-in fastener available.
- Typical pull-out values in cured concrete (3000 psi) are 800 lbs. to 1200 lbs. A pull-out test is recommended.
- The Drill-Tec™ CD-10 is F.M. and Dade County approved.

Plates & Accessories

- 3" steel or plastic plates, depending on application.
- Use a 7/32" carbide tip SDS or straight shank drill bit.

Specifications

The fastener will be a Drill-Tec™ CD-10 with a split diameter of .270/.277 and a 45° point angle. The fastener material must be a hard carbon steel per specification RM-03. The Drill-Tec™ CD-10 fastener will be used with a Factory Mutual approved Drill-Tec round pressure plate. The fastener must be Factory Mutual approved and made in the U.S.A.

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

Head Diameter	.435
Head Height	.115
Head Style	Flat Top Pan
Split Diameter	.270/.277
Coating	CR-10
Point Angle	45°

SKU #	Length	Packaging	Weight
4560	2"	500	13 lbs
4569	2 1/2"	500	16 lbs
4561	3"	500	18 lbs
4570	3 1/2"	500	21 lbs
4562	4"	500	23 lbs
4563	4 1/2"	500	25 lbs
4564	5"	500	28 lbs
4571	5 1/2"	500	31 lbs
4565	6"	500	33 lbs
4566	7"	500	38 lbs
4556	8"	500	44 lbs
4557	9"	250	25 lbs
456D	10"	250	28 lbs
456E	11"	250	31 lbs
456F	12"	250	33 lbs

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Example: Drill-Tec™ CD-10 Length Selection Procedure

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

Example

Existing Roofing: 1 3/4"
New Insulation: + 1/2"
Min. Embedment: + 1"
Total Fastening Range: = 3 1/4"

The proper CD-10 for the example is 3 1/2".

Use this format to calculate correct fastener size:

Existing Roof:
New Insulation: +
Min. Embedment: + 1"
Total Fastening Range: =

The proper CD-10 Fastener is: