

CD-10

PRODUCT DATA SPECIFICATIONS

PRODUCT DESCRIPTION

The Flex 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-in. to 12-in. lengths. The CD-10 is Factory Mutual and Miami-Dade County approved.

FEATURES & BENEFITS

- 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 pullout values in cured concrete (3000 psi) are over 800 lbs. A pullout test is recommended.
- The Flex CD-10 is FM and Miami-Dade County approved.

COATING

CR-10 corrosion resistant coating passes the corrosion requirements of FM Approval Standard 4470 and ETAG 006.

APPLICATION

Predrill a 7/32-in. 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-in. The predrilled hole must be a minimum of 1/2-in. deeper than fastener embedment.

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

PLATES & ACCESSORIES

Appropriate steel or plastic plates, depending on application. **See Plates section.** Use a 7/32-in. carbide tip SDS or straight shank drill bit.

APPROVALS



USE WITH
SC
DECK
TYPES

PHYSICAL DATA *

The data below is constant for each Flex CD-10.

HEAD	SPLIT BULB
Flat Top Pan .435" Diameter .115" Height	.270/.277" Diameter
	COATING CR-10

ORDERING INFORMATION

CAT. NO.	LENGTH	PKG	WEIGHT
CD002	2"	500	13 lbs.
CD212	2½"	500	16 lbs.
CD003	3"	500	18 lbs.
CD312	3½"	500	21 lbs.
CD004	4"	500	23 lbs.
CD412	4½"	500	25 lbs.
CD005	5"	500	28 lbs.
CD512	5½"	500	31 lbs.
CD006	6"	500	33 lbs.
CD007	7"	500	38 lbs.
CD008	8"	500	44 lbs.
CD009	9"	250	25 lbs.
CD010	10"	250	28 lbs.
CD011	11"	250	31 lbs.
CD012	12"	250	33 lbs.

*All dimensions are nominal.

KEY:

S Steel	SC Structural Concrete
W Wood	LC Lightweight Concrete
G Gypsum	LWIC Lightweight Insulating Concrete
P Purlins	CWF Cementitious Wood Fiber

FlexTM
Thermoplastic Single Ply and Multi-Ply
Roofing & Waterproofing Systems

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CD-10

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SPECIFICATION

The fastener will be a Flex 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 Flex CD-10 fastener will be used with a Factory Mutual approved, Flex round pressure plate. The fastener must be Factory Mutual approved.

COATING REQUIREMENT

The fastener will be coated with the CR-10 corrosion resistant coating which passes the corrosion requirements of FM Approval Standard 4470 and ETAG 006.

APPLICATION

Predrill a 7/32-in. hole using a carbide tip SDS or straight shank bit. The CD-10 is then installed with a 2 lb. short-handle sledge hammer.

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

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

PHYSICAL DATA*

The data below is constant for each Flex CR-10.

HEAD	SPLIT BULB
Flat Top Pan .435" Diameter .115" Height	.270/.277" Diameter
	COATING
	CR-10
POINT ANGLE	PACKAGING
45°	500, 250/carton

*All dimensions are nominal.

CR-10 LENGTH SELECTION PROCEDURE

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

	Example:	Your Project:
Existing Roofing	1 3/4"	
New Insulation	1/2"	
Min. Embedment	1"	1"
Total Fastening	3 1/4"	
Correct Length	3 1/2"	

The proper CD-10 for this example is 3 1/2 inches.

FlexTM
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