

## PRODUCT DATA SPECIFICATIONS

### PRODUCT DESCRIPTION

The OMG 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. (50 mm to 305 mm) 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 / 20 MPa) are over 800 lbs. (363.2 Kg). A pullout test is recommended.
- The OMG CD-10 is FM and Miami-Dade County approved.

### COATING

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

### APPLICATION

Predrill a 7/32-in. (6 mm) hole using a carbide drill bit. The fastener is then installed with a 2 lb. (0.9 Kg) short-handle sledge hammer.

Minimum fastener embedment into the deck should be 1-in. (25 mm). The predrilled hole must be a minimum of 1/2-in. (13 mm) deeper than fastener embedment.

**Note: Prior to job start, contact OMG 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. Use a 7/32-in. (6 mm) carbide tip SDS or straight shank drill bit.

### APPROVALS



**Factory Mutual listings refer to this product as CD-10.**



USE WITH  
**SC**  
DECK  
TYPES

### PHYSICAL DATA \*

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

HEAD	SPLIT BULB
Flat Top Pan .435" (11.04 mm) Diameter .115" (2.92 mm) Height	.270/.277" (6.85/7.03 mm) Diameter
	COATING
	CR-10

### ORDERING INFORMATION

CAT. NO.	LENGTH IN (MM)	PKG QTY	WEIGHT LBS (KG)
CD002	2 (50)	500	13 (5.90)
CD212	2½ (60)	500	16 (7.26)
CD003	3 (75)	500	18 (8.17)
CD312	3½ (90)	500	21 (9.53)
CD004	4 (100)	500	23 (10.44)
CD412	4½ (115)	500	25 (11.35)
CD005	5 (125)	500	28 (12.71)
CD512	5½ (140)	500	31 (14.07)
CD006	6 (150)	500	33 (14.98)
CD007	7 (175)	500	38 (17.25)
CD008	8 (200)	500	44 (19.97)
CD009	9 (230)	250	25 (11.35)
CD010	10 (255)	250	28 (12.71)
CD011	11 (280)	250	31 (14.07)
CD012	12 (305)	250	33 (14.98)

**\* ALL SIZES ARE NOMINAL.**

#### KEY:

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



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### SPECIFICATION

The fastener will be an OMG CD-10 with a split diameter of .270/.277-in. (6.85/7.03 mm) and a 45° point angle. The fastener material must be a hard carbon steel per specification RM-03. The OMG CD-10 fastener will be used with a Factory Mutual approved, OMG round pressure plate. The fastener must be Factory Mutual approved.

### COATING REQUIREMENT

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

### APPLICATION

Predrill a 7/32-in. (6 mm) hole using a carbide tip SDS or straight shank bit. The CD-10 is then installed with a 2 lb. (0.9 Kg) short-handle sledge hammer.

Minimum fastener embedment into the deck should be 1-in. (25 mm). The predrilled hole must be a minimum of 1/2-in. (13 mm) deeper than fastener embedment.

**Note: Prior to job bid, contact OMG 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 OMG CD-10.

HEAD		SPLIT BULB	
Flat Top Pan		.270/.277"	
.435" (11.04 mm) Diameter		(6.85/7.03 mm) Diameter	
.115" (2.92 mm) Height		COATING	
		CR-10	
POINT ANGLE		PACKAGING	
45°		500, 250/carton	

\*All sizes are nominal.

### CD-10 LENGTH SELECTION PROCEDURE

1. If applicable, determine the thickness of the existing roofing material.
2. Add thickness of new insulation.
3. Add 1-in. (25 mm) 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" (45 mm)	_____
New Insulation	1/2" (13 mm)	_____
Min. Embedment	1" (25 mm)	1" (25 mm)
Total Fastening	3 1/4" (83 mm)	_____
Correct Length	3 1/2" (90 mm)	_____

The proper CD-10 for this example is 3 1/2-in. (90 mm).