

## 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 50 mm to 305 mm (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.
- 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 EAD030351-00-0402.

### APPLICATION

Pre-drill a pilot hole and install fastener with a short-handle sledge hammer. Please note, pull-out values differ significantly depending on the type, quality and age of the concrete. **OMG strongly recommends conducting several pull tests** on site with various pilot holes (typically 5.5 mm) using a carbide tip SDS or straight shank drill bit to determine an acceptable performance level.

For structural concrete decks, 25 mm embedment is the minimum allowable. The pilot hole should be at least 13 mm deeper than the fastener embedment.

**Note:** Care must be taken not to overdrive the fastener which can cause subsequent damage to the insulation facer.

### PLATES & ACCESSORIES

Appropriate steel or plastic plates, depending on application. Use a 6 mm (7/32-in.) 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 11.04 mm (.435") Diameter 2.92 mm (.115") Height	6.85 to 7.03 mm (.270 to .277") Diameter
	<b>COATING</b> CR-10

### ORDERING INFORMATION

CAT. NO.	LENGTH MM (IN)	PKG QTY	WEIGHT KG (LBS)
CF50B	50 (2)	500	5.90 (13)
CF65B	65 (2½)	500	7.26 (16)
CF75B	75 (3)	500	8.17 (18)
CF90B	90 (3½)	500	9.53 (21)
CF100B	100 (4)	500	10.44 (23)
CF115B	115 (4½)	500	11.35 (25)
CF125B	125 (5)	500	12.71 (28)
CF140B	140 (5½)	500	14.07 (31)
CF150B	150 (6)	500	14.98 (33)
CF175B	175 (7)	500	17.25 (38)
CF200B	200 (8)	500	19.97 (44)
CF230B	230 (9)	250	11.35 (25)
CF255B	255 (10)	250	12.71 (28)
CF280B	280 (11)	250	14.07 (31)
CF305B	305 (12)	250	14.98 (33)

\*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 6.85/7.03 mm (.270/ .277) 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 EAD030351-00-0402.

### APPLICATION

Predrill a pilot hole and install fastener with a short-handle sledge hammer. Please note, pull-out values differ significantly depending on the type, quality and age of the concrete.

**OMG strongly recommends conducting several pull tests** on site with various pilot holes (typically 5.5 mm) using a carbide tip SDS or straight shank drill bit to determine an acceptable performance level.

For structural concrete decks, 25 mm embedment is the minimum allowable. The pilot hole should be at least 13 mm deeper than the fastener embedment.

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HEAD		SPLIT BULB	
Flat Top Pan 11.04 mm (.435") Diameter		6.85 to 7.03 mm (.270 to .277") Diameter	
.92 mm (.115") 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 25 mm (1-in.) minimum fastener penetration.
4. If odd size requirement, always size up in length, not down. See example:

	Example:	Your Project:
Existing Roofing	45 mm (1¾")	
New Insulation	13 mm (½")	
Min. Embedment	25 mm (1")	25mm (1")
Total Fastening	83 mm (3¼")	
Correct Length	90 mm (3½")	

The proper CD-10 for this example is 90 mm (3½ in.).