

Heavy Duty Roofing Fastener

PRODUCT DATA SPECIFICATIONS

PRODUCT DESCRIPTION

The OMG Heavy Duty Roofing Fastener (#14) is designed to secure insulation and single-ply membrane to steel 18 to 22 ga. (1.25 to 0.75mm) steel, wood and structural concrete decks. It is available in lengths from 1¼- to 24-inches (30 to 610mm), and Factory Mutual and Miami-Dade County approved.

FEATURES & BENEFITS

- Heavier shank and thread diameters for maximum strength.
- Deep thread for high pullout resistance.
- Extra sharp spade point for quick installation in new or reroof applications
- In concrete applications, fastener may be reversed out of predrilled hole without damaging the deck.

COATING

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

APPLICATION

For steel decks, ¾-in. (20mm) penetration is the minimum allowable. Factory Mutual requires that fasteners penetrate the top flute.

For OSB and plywood*, ¾-in. (20mm) penetration through the underside of the board is the minimum allowable. For wood deck (wood beams, wood plank, tongue & groove), 1-in. (25mm) penetration is the minimum allowable.

For structural concrete decks 1-in. (25mm) embedment is the minimum allowable. Pre-drill a ⅜-in. (5mm) pilot hole at least ½-in. (13mm) deeper than the fastener embedment using a carbide tip SDS or straight shank bit.

Using a screw gun, drive the fastener until a slight depression is seen in the insulation and the plate. On rigid cover boards, care must be taken not to strip the deck.

The strength of different roof decks can vary widely and can be adversely affected by moisture and other conditions. Therefore, it is recommended that a fastener pull test be conducted to help evaluate deck condition and fastener suitability. Call OMG to schedule testing.

Note: Care must be taken not to overdrive the fastener. Fastener must be tight enough so that the plate doesn't turn. For best results, use a variable speed 0-2500 RPM screw gun.

To speed installation in steel and wood decks, this fastener can be used with the AccuTrac® System and is also available pre-assembled. See AccuTrac or ASAP®.

PLATES & ACCESSORIES

Use appropriate steel or plastic plates, depending on the application. **See Plates Section.** On structural concrete decks, use a ⅜-in. (5mm) carbide tip SDS or straight shank bit.

APPROVALS



Factory Mutual listings refer to this product as **OMG #14 Heavy Duty and OMG Heavy Duty #14 RoofGrip.**



USE WITH
S
W
SC
 DECK TYPES

PHYSICAL DATA†

The data below is constant for each OMG Heavy Duty Roofing Fastener.

HEAD	THREAD
#3 Phillips Truss Head .435" (11.04mm) Diameter	.245" (6.22mm) Diameter
SHANK	COATING
.190" (4.82mm) Diameter	CR-10

#3 Phillips bit included in each carton.

ORDERING INFORMATION

CAT. NO.	LENGTH IN (MM)	THREAD IN (MM)	PKG	WEIGHT LBS (KG)
CR114B	1¼" (30)	Full	1000	13 (5.89)
CR134B	1¾" (45)	Full	1000	17 (7.71)
CRHD2B	2" (50)	Full	1000	19 (8.61)
CRHD3B	3" (75)	Full	1000	27 (12.24)
CRHD4B	4" (100)	3" (76)	1000	34 (15.42)
CRHD5B	5" (125)	4" (102)	500	23 (10.43)
CRHD6B	6" (150)	4" (102)	500	26 (11.79)
CRHD7B	7" (175)	4" (102)	500	30 (13.60)
CRHD8B	8" (200)	4" (102)	500	34 (15.42)
CRHD9	9" (230)	4" (102)	500	37 (16.79)
CRH10	10" (255)	4" (102)	500	40 (18.16)
CRH11	11" (280)	4" (102)	500	44 (19.97)
CRH12	12" (305)	4" (102)	250	25 (11.35)
CRH14	14" (355)	4" (102)	250	29 (13.16)
CRH16	16" (405)	4" (102)	250	37 (16.79)
CRH18	18" (455)	4" (102)	250	41 (18.61)
CRH20	20" (510)	4" (102)	250	47 (21.33)
CRH21	21" (530)	4" (102)	250	48 (21.79)
CRH22	22" (560)	4" (102)	250	50 (22.70)
CRH24	24" (610)	4" (102)	250	56 (25.42)

†All sizes 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

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SPECIFICATION

The fastener will be an OMG Heavy Duty Roofing Fastener (#14) with a shank diameter of .190-in. (4.82mm) and a thread diameter of .245-in. (6.22mm). The fastener must have 10 threads per inch and have a 30° spade point. Also, the fastener must be heat treated per specification OMG-1. The OMG Heavy Duty Roofing Fastener will be used with a Factory Mutual approved, OMG 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

For steel decks, 3/4-in. (20mm) penetration is the minimum allowable. Factory Mutual requires that fasteners penetrate the top flute.

For OSB and plywood*, 3/4-in. (20mm) penetration through the underside of the board is the minimum allowable. For wood deck (wood beams, wood plank, tongue & groove), 1-in. (25mm) penetration is the minimum allowable.

For structural concrete decks 1-in. (25mm) embedment is the minimum allowable. Pre-drill a 3/16-in. (5mm) pilot hole at least 1/2-in. (13mm) deeper than the fastener embedment using a carbide tip SDS or straight shank bit.

Using a screw gun, drive the fastener until a slight depression is seen in the insulation and the plate. On rigid cover boards, care must be taken not to strip the deck.

The strength of different roof decks can vary widely and can be adversely affected by moisture and other conditions. Therefore, it is recommended that a fastener pull test be conducted to help evaluate deck condition and fastener suitability. Call OMG to schedule testing.

Note: Care must be taken not to overdrive the fastener. Fastener must be tight enough so that the plate doesn't turn. For best results, use a variable speed 0-2500 RPM screw gun.

To speed installation in steel and wood decks, this fastener can be used with the AccuTrac® System and is also available pre-assembled. See AccuTrac or ASAP®.

*FM does not approve OSB or plywood deck types.

HEAVY DUTY ROOFING FASTENER LENGTH SELECTION PROCEDURE

1. If applicable, determine the thickness of the existing roofing material.
2. Add thickness of new insulation.
3. **For steel, OSB and plywood applications:** Add 3/4-inch (20mm) minimum fastener penetration.
For structural concrete and wood plank applications: Add 1-in. (25mm) minimum fastener penetration. **NOTE:** When predrilling for structural concrete, allow an extra 1/2-in. (13mm).
4. If odd size requirement, always size up in length, not down. See example:

Steel Deck:	Example:	Your Project:
Existing Roofing	1 3/4" (45mm)	_____
New Insulation	1/2" (13mm)	_____
Min. Embedment	3/4" (20mm)	3/4" (20mm)
Total Fastening	3" (75mm)	_____
Correct Length	3" (75mm)	_____

The proper Heavy Duty Roofing Fastener for this steel deck example is 3-in. (75mm).

Structural Concrete Deck:	Example:	Your Project:
Existing Roofing	2 1/4" (57mm)	_____
New Insulation	1/2" (13mm)	_____
Min. Embedment	1" (25mm)	1" (25mm)
Total Fastening	3 3/4" (95mm)	_____
Correct Length	4" (100mm)	_____

The proper Heavy Duty Roofing Fastener for this structural concrete deck example is 4-in. (100mm).



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