



Extra Heavy Duty Roofing Fastener

PRODUCT DATA SPECIFICATIONS

PRODUCT DESCRIPTION

The OMG Extra Heavy Duty Roofing Fastener (OMG XHD®) (#15) is a specialized, high performance fastener designed to secure roofing materials to certain light gauge steel (20 GA. [0.95 mm] and lighter), O.S.B., plywood or aluminum* roof decks. It is available in lengths from 2- to 16-in. (50 to 405 mm) and is Factory Mutual and Miami-Dade approved.

FEATURES & BENEFITS

- Oversized heavy shank and thread diameters for enhanced pullout resistance in light gauge steel and aluminum roof decks.
- Deep buttress threads further increase pullout and backout resistance.
- Miniature drill point penetrates decks quickly and contributes to exceptional resistance to back-out as well as pullout.

APPLICATION

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

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

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, this fastener can be used with the AccuTrac® System.

COATING

OMG CR-10 corrosion resistant coating passes the corrosion requirements of FM Approval Standard 4470 and EAD 030351-00-0402.

PLATES & ACCESSORIES

A variety of plates are available. Contact OMG to determine the appropriate plate for your application.

To speed installation, this fastener can be used with the AccuTrac® System and is also available pre-assembled.

APPROVALS



Factory Mutual listings refer to this product as OMG XHD Screw, OMG XHD Fastening System, #15 RoofGrip, and #15 SPM Screw.

*FM does not recognize OSB, plywood or aluminum deck types.



USE WITH
S
W
AL
DECK TYPES

PHYSICAL DATA†

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

HEAD	THREAD
#3 Phillips Truss Head**	.265 (6.73 mm) Diameter
	SHANK
.435 (11.04 mm) Diameter	.202 (5.13 mm) Diameter
	COATING
	CR-10

#3 Phillips bit included in each bucket/carton.

ORDERING INFORMATION

CAT. NO.	LENGTH IN (MM)	THREAD IN (MM)	PKG QTY	WEIGHT LBS (KG)
XHD002B	2 (50)	Full	1000	20 (9.08)
XHD003B	3 (75)	Full	1000	29 (13.16)
XHD004B	4 (100)	3 (76)	1000	38 (17.25)
XHD005B	5 (125)	4 (102)	500	24 (10.89)
XHD006B	6 (150)	4 (102)	500	28 (12.71)
XHD007B	7 (175)	4 (102)	500	34 (15.44)
XHD008B	8 (200)	4 (102)	500	38 (17.25)
XHD009B	9 (230)	4 (102)	500	42 (19.07)
XHD010B	10 (255)	4 (102)	500	47 (21.33)
XHD011B	11 (280)	4 (102)	500	52 (23.61)
XHD012B	12 (305)	4 (102)	500	56 (25.42)
XHD014	14 (355)	4 (102)	250	32 (14.52)
XHD016	16 (405)	4 (102)	250	38 (17.25)

B = Bucket

Other sizes available up to 24-in. (610 mm).

Call for details.

†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
AL Aluminum	





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SPECIFICATION

The fastener will be an OMG Extra Heavy Duty Roofing Fastener (#15) with a thread diameter of .265-in. (6.73 mm). The fastener must have 13 threads per inch and a drill point. Also, the fastener must be heat treated per specification OMG-1. The OMG Extra Heavy Duty Roofing Fastener will be used with a Factory Mutual approved, OMG round pressure plate or pressure bar.

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 EAD 030351-00-0402.

APPLICATION

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EXTRA 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 and aluminum:** Add 3/4-in. (20 mm) minimum fastener penetration.
4. For OSB and plywood, add 3/4-in. (20 mm) minimum fastener penetration.
5. For wood plank (beam, tongue and groove), add 1-in. (25 mm) embedment.
6. If odd size requirement, always size up in length, not down. See example:

	Example:
Existing Roofing	3" (75 mm)
Cover Board	1/2" (13 mm)
Min. Penetration	3/4" (20 mm)
Total Fastening	4 1/4" (108 mm)
Correct Length	5" (127 mm)

The proper #15 Extra Heavy Duty Roofing Fastener for this project is 5 in. (127 mm).

*FM does not recognize OSB, plywood or aluminum deck types.



ROOFING PRODUCTS

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