



Universal 6 mm T25 Fastener

PRODUCT DATA SPECIFICATIONS

PRODUCT DESCRIPTION

The Universal 6.0 mm T25 Fastener is designed to secure insulation and single-membrane to steel 0.75 to 1.25 mm (22 to 18 Ga.) steel, wood and structural concrete decks. It is available in lengths from 50 to 305 mm (2 to 12-in.).

FEATURES & BENEFITS

- T25 drive for efficient installation.
- Heavier shank and thread diameters for maximum strength.
- Deep thread for high pullout resistance.
- Extra sharp drill point for quick installation in new or reroof applications.

COATING

Universal 6.0 Fasteners are coated with OMG's grey CR-10 corrosion resistant coating and a protective layer. The fasteners are subject to 30 cycles of Kesternich testing, and pass the corrosion requirements of EAD030351-00-0402.

APPLICATION

For steel decks, 20 mm (¾-in.) penetration is the minimum allowable. Attachment to the top flute of steel decks is highly recommended.

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

For concrete decks, 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 (5.0 mm is typical) using a carbide tip SDS or straight shank drill bit to determine an acceptable performance level.

Structural concrete decks require pre-drilling. The minimum allowable embedment is 25 mm. The pilot hole should be at least 13 mm deeper than the fastener embedment.

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.

PLATES & ACCESSORIES

Use appropriate steel or plastic plates, depending on the application. **See Plates Data Sheets.** On structural concrete decks, use a 5 mm (3/16-in.) carbide tip SDS or straight shank bit.

APPROVALS



USE WITH
S
W
SC
DECK TYPES

PHYSICAL DATA†

The data below is constant for each Universal 6.0 mm Fastener.

HEAD	THREAD
T25 Truss Head 11 mm (.435") Diameter	6 mm (.235") Diameter
SHANK	COATING
4.6 mm (.180") Diameter	CR-10 grey with protective layer

T25 driver bit included in each bucket.

ORDERING INFORMATION

CAT. NO.	LENGTH MM (IN)	THREAD MM (IN)	PKG QTY	WEIGHT KG (LBS)
HDSL50B	50 (2)	Full	1000	8.2 (18)
HDSL75B	75 (3)	Full	1000	11.2 (25)
HDSL100B	100 (4)	75 (3)	1000	14.6 (32)
HDSL125B	125 (5)	100 (4)	1000	17.8 (39)
HDSL150B	150 (6)	100 (4)	1000	21.2 (47)
HDSL175B	175 (7)	100 (4)	500	12.5 (28)
HDSL200B	200 (8)	100 (4)	500	14.2 (32)
HDSL255B	255 (10)	100 (4)	500	16.2 (36)
HDSL305B	305 (12)	100 (4)	250	21.1 (47)

†All sizes are nominal.

KEY:

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





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SPECIFICATION

The fastener will be an OMG Universal 6.0 mm T25 Fastener (#14) with a shank diameter of 4.57 mm (.180-in.) and a thread diameter of 5.97 mm (.235-in.). Also, the fastener must be heat treated per specification OMG-1. The OMG Universal 6.0 mm Fastener will be used with an approved OMG pressure plate.

COATING REQUIREMENT

The fastener will have a grey OMG CR-10 corrosion resistant coating, which passes the corrosion requirements of EAD030351-00-0402.

APPLICATION

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

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

For concrete decks, 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 (5 mm is typical) 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.

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.

UNIVERSAL 6.0 MM T25 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 20 mm (¾-in.) minimum fastener penetration.
For structural concrete and wood plank applications: Add 25 mm (1-in.) minimum fastener penetration.
NOTE: When pre-drilling for structural concrete, allow an extra 13 mm (½-in.)
4. If odd size requirement, always size up in length, not down. See example:

Steel Deck:	Example:	Your Project:
Existing Roofing	45 mm (1¾-in.)	
New Insulation	13 mm (½-in.)	
Min. Embedment	20 mm (¾-in.)	20 mm (¾-in.)
Total Fastening	75 mm (3-in.)	
Correct Length	75 mm (3-in.)	

The proper Universal 6.0 mm T25 Fastener for this steel deck example is 75 mm (3-in.).

Structural Concrete Deck:	Example:	Your Project:
Existing Roofing	57 mm (2¼-in.)	
New Insulation	13 mm (½-in.)	
Min. Embedment	25 mm (1-in.)	25 mm (1-in.)
Total Fastening	95 mm (3¾-in.)	
Correct Length	100 mm (4-in.)	

The proper Universal 6.0 mm T25 Fastener for this structural concrete deck example is 100 mm (4-in.).



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