



TL Fasteners

Tectum Lightweight Fastener



PRODUCT DATA SHEET

DESCRIPTION

The TL Fastener is designed to mechanically attach rigid insulation boards and single-ply membrane to cementitious wood fiber (Tectum®), gypsum and lightweight insulating concrete roof decks. It features a high-thread profile with a tapered root diameter and sharp point. Its unique design allows it to penetrate the roof deck and progressively compact the base material, creating a stronger hold in weak material. The TL Fastener is used in conjunction with the 2" TL Membrane Plate and 3" TL Insulation Plate.

APPROPRIATE ACCESSORIES

3" TL Insulation Plates and 2" TL Membrane Plates are designed to be used with the TL Fastener.

PACKAGING			
Screw Length	Thread Length	Pieces/Box	Weight/Box
2"	1.447"	500	11 lbs.
2-1/2"	1.947"	500	13 lbs.
3"	2.300"	500	15 lbs.
3-1/2"	2.300"	500	17 lbs.
4"	2.300"	500	18 lbs.
4-1/2"	2.300"	500	21 lbs.
5"	2.300"	500	22 lbs.
5-1/2"	2.300"	500	25 lbs.
6"	2.300"	500	27 lbs.
6-1/2"	2.300"	500	30 lbs.
7"	2.300"	250	16 lbs.
7-1/2"	2.300"	250	17 lbs.
8"	2.300"	250	17.5 lbs.
8-1/2"	2.300"	250	19 lbs.
9"	2.300"	250	20 lbs.
9-1/2"	2.300"	250	21 lbs.
10"	2.300"	250	22 lbs.
11"	2.300"	250	25 lbs.
12"	2.300"	250	26 lbs.
13"	2.300"	250	28 lbs.
14"	2.300"	250	29 lbs.

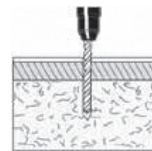
AVERAGE ULTIMATE PULLOUT VALUES

Substrate	Pre-Drill Diameter*	Min. Embedment	Pullout (lbf.)
Tectum TM	N/A	1-1/2"	280
		2"	440
		2-1/2"	595
3" Insulrock	5/16"	2-1/2"	365
Poured Gypsum	3/8"	2"	540

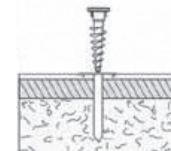
*A pre-drilled 5/8" clearance hole is only necessary when plywood or other rigid materials are fastened to roof deck. A plate is not required in this application

INSTALLATION INSTRUCTIONS

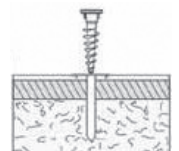
Using the 1/4" drive bit provided and an electric impact tool that provides a high-torque and relatively low rpm, install the fastener into the deck. A heavy-duty variable speed screw gun operated at a low speed is also acceptable. Pre-drilling is normally not required for installation into cementitious wood fiber decks such as Tectum®. Decks such as Insulrock may require a 5/16" pre-drilled hole. Gypsum and lightweight insulating concrete decks should be pre-drilled using a 3/8" or 7/16" carbide-tipped bit. Larger carbide-tipped bits up to 1/2" dia. can be used in denser materials. The drill bit size to be used should be determined during the job site test.



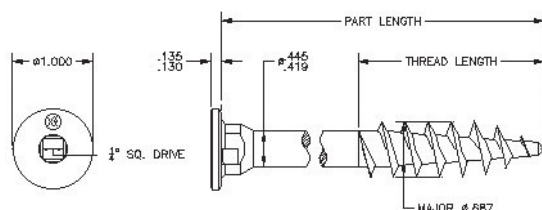
If pre-drilling is required, drill a hole into the base material to a depth 1/2" greater than the embedment required.



Place the MuleHide TL Plate on the insulation (TL 3" Plate) or seam (TL 2" Plate).



Drive the TL Fastener through the plate into the base material until the head of the fastener is properly seated in the plate. The plate should be seated securely against the insulation or membrane. - Do not overdrive.



NOTE: The performance specifications published in this MuleHide product data sheet are based on controlled laboratory tests and are intended as a guideline only. They are not guaranteed in any way by MuleHide or its supplier, since the building design, engineering and construction (including workmanship and materials) are beyond our control. MuleHide recommends that fastener pull tests be conducted to verify the substrate provides adequate pullout resistance.



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PRODUCT DATA SHEET

PROTECTION & SAFETY

MuleHide maintains safety data sheets on all of its non-exempt products. Safety data sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees and customers. MuleHide's safety data sheets should be read and understood by all of your supervisory personnel and employees before using MuleHide products in your facilities.

ADDITIONAL INFORMATION

On projects where a MuleHide standard or premium warranty is requested, an authorized MuleHide representative shall inspect all completed work.

The information given on this PDS is subject to change without notice. Always check the MuleHide website at www.mulehide.com for the latest information, changes and updates or contact MuleHide at 800-786-1492.

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