



Product Data Sheet

LWG FASTENERS

PRODUCT DESCRIPTION

Revision Date: April 2020

Mule-Hide's LWG Fasteners are engineered to secure base sheets, insulation, or cover boards to lightweight insulating concrete (LWIC) and gypsum decks. The LWG Fastener features an exclusive thread design engineered for exceptional pullout. When used in conjunction with our LWG 3" Metal Plate, multiple fasteners can be installed to achieve the required minimum pullout.

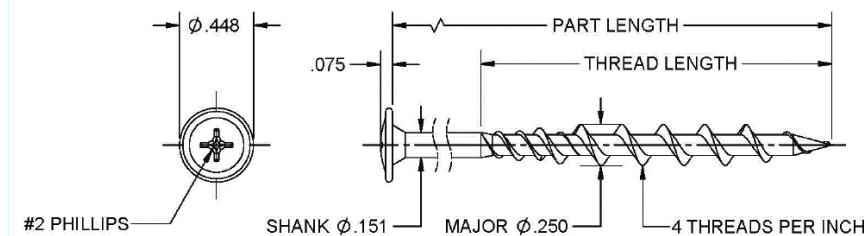


APPROPRIATE ACCESSORIES

LWG 3" Metal Plates are designed to be used with LWG Fasteners.

MATERIAL SPECIFICATIONS

Property	Standard	Average Ultimate Value
Wire:	----	SAE C1022, heat treated
Coating:	----	Tru-Kote™ Epoxy E-Coat
Corrosion Resistance	FM 4470, DIN 50018	<15% Red Rust after 30 cycles
Tensile Strength	ASTM F606-10	2000 lbf.
Shear Strength	AISI S904	1,357 lbf.



PRODUCT SELECTION

Part Length		Thread Length		Pkg. Qty.	Pkg. Wt.
2-1/4"	57.2 mm	2.125" (full)	54.0 mm	1000/Bkt.	19.0 lbs
3-1/4"	82.55 mm	2.125" (full)	54.0 mm	1000/Bkt.	20.0 lbs
4-1/4"	107.5 mm	2.125" (full)	54.0 mm	1000/Bkt.	33.0 lbs

PERFORMANCE DATA*

Substrate	Average Ultimate Pullout
Aggregate Lightweight Insulating Concrete (LWIC) (63 pcf density, 370 psi compressive strength)	190 lbs (one fastener per plate)
Cellular Lightweight Insulating Concrete (LWIC) (41 pcf density, 290 psi compressive strength)	320 lbs (one fastener per plate)
Gypsum (93 pcf density, 340 psi compressive strength)	350 lbs (one fastener per plate)

*The performance specifications published in this Mule-Hide Product Data Sheet are based on controlled laboratory tests and are intended as a guideline only. They are not guaranteed in any way by Mule-Hide Products Co., Inc. or its supplier, since the building design, engineering and construction (including workmanship and materials) are beyond our control.

INSTALLATION GUIDELINES

Pull tests are required for this fastener, project specific tests will provide the number of fasteners required to be installed in the LWG Plate, in a predetermined pattern to meet the minimum required value. Results of the test and

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acceptance by the Mule-Hide Technical department must be completed prior to proceeding with installation when a Mule-Hide warranty is required.

INSTALLATION GUIDELINES (cont.)

1. For LWIC Decks (Aggregate & Cellular) and Gypsum Decks: Using the #2 Phillips drive bit provided and a 0-1500 rpm variable speed screw gun with adjustable torque control, install the LWG Fastener and LWG 3" Metal Plate through the approved base sheet, insulation or cover board and into the approved deck.
2. The LWG Fastener shall penetrate the approved deck a minimum of 2".
3. Care should also be taken to avoid stripping out the LWG Fastener by overdriving the LWG Fastener into the LWIC or Gypsum deck.
4. Orient the LWG Fastener perpendicular to the deck, taking care not to overdrive the LWG Fastener and damage the base sheet, insulation, or cover board.
5. Refer to detail MHU-LWG-1 for approved patterns when multiple fasteners are required to meet the minimum pullout criteria.

PROTECTION & SAFETY

Mule-Hide 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. Mule-Hide Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Mule-Hide products in your facilities.

ADDITIONAL INFORMATION

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

DISCLAIMER

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