



MULE-HIDE DRILL POINT FASTENERS

PRODUCT DESCRIPTION

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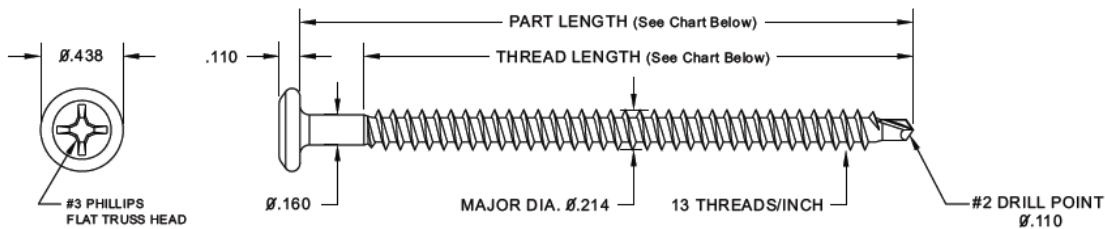
Mule-Hide Drill Point Fasteners are # 12 fasteners that are specifically engineered to attached insulation, cover boards and base sheets to wood and steel decking (16 to 22 gauge). These fasteners incorporate a No. 3 Phillips recess, flat truss head with a #2 double flute self-drilling point. The drill point has an exclusive tapered entry thread design that allows for fastener penetration into steel roof decks and offers exceptional back-out resistance.

BASIC USES

Mule-Hide's Drill Point Fasteners are designed specifically for the mechanical attachment of Mule-Hide's Poly ISO 1 and Poly ISO 2 roof insulation boards and other FM approved insulation / cover boards into steel and wood decks. The Mule-Hide Drill Point Fasteners may be used in conjunction with the Mule-Hide 3" Insulation Plates. Refer to Mule-Hide's appropriate Single-Ply Manuals for installation instructions and uses.

SPECIFICATIONS

Property	Standard	Average Ultimate Value
Wire:	----	SAE C-1022, heat treated wire
Coating:	----	TRU-Kote™ Epoxy E-Coat
Corrosion Resistance	FM 4470, ASTM D6294, DIN 50018	<15% Red Rust after 30 cycles
Tensile Strength	ASTM F606-10	2500 lb.
Shear Strength	NASM 1312-20	1900 lb. (thread zone)



PACKAGING

Screw Length*	Thread Length*	Pieces/Box	Weight/Box
1-5/8"	1-5/8"	1000	11.8 lbs
2-1/4"	2-1/4"	1000	16.2 lbs
2-7/8"	2-7/8"	1000	19.7 lbs
3-1/4"	2-7/8"	1000	21.5 lbs
3-3/4"	2-7/8"	1000	24.6 lbs
4-1/2"	3-7/8"	1000	28.8 lbs
5"	3-7/8"	1000	31.5lbs
6"	3-7/8"	1000	37.1 lbs
7"	3-7/8"	500	20.9 lbs
8"	3-7/8"	500	23.9 lbs

Screw Length and Thread Length are ± 1/16"

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PERFORMANCE INFORMATION

Average Ultimate Pullout Values in Corrugated Steel Deck Substrates														
Thickness	24 ga.			22 ga.			20 ga.			18 ga.			16 ga.	
Strength, ksi	36.5	33.0	80.0	102.0	33.0	80.0	102.0	33.0	80.0	102.0	33.0	80.0	102.0	
Pullout (lbs)	230	285	410	465	355	505	580	540	715	800	710	1000	1142	

Average Ultimate Pullout Values in Wood Substrates								
Type	APA Rated OSB				APA Rated Plywood			
Thickness	7/16"	15/32"	19/32"	23/32"	15/32"	19/32"	23/32"	SPF #2
Pullout (lbs)	265	300	325	440	365	475	720	700*

- *lbf./in. of thread penetration including tip.
- Pull out values are offered only as a guide and are not guaranteed in any way.
- Designated holding powers are dependent upon quality of substrate and accuracy of installation.
- Mule-Hide recommends that fastener pull out testing be performed to verify fastener performance.

CODE APPROVALS/COMPLIANCE

Mule-Hide Drill Point Fasteners comply with the requirements of the following specifications, test and code requirements when properly installed.

* FM Standard 4450/4470 Approval * Metro-Dade Approved *Florida Product Approval

LEED® Information	
Manufacturing Location	Bryan, OH
LEED Eligible Recycle Content	20%

INSTALLATION INSTRUCTIONS

Steel and Wood Decks

Install fasteners with #3 Phillips drive bit provided in box and a variable speed screw gun. Fastener must penetrate the deck a minimum of 3/4" as measured from the underside of the roof deck to the fastener tip. Ensure that fastener is installed perpendicular to surface of roof deck. Care should be taken to not overdrive the fastener causing damage to roof insulation, fastener or roof deck.

Use eye protection when installing fasteners.

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's 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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