



# Product Data Sheet

## MULE-HIDE HP PROTECTION MAT

### PRODUCT DESCRIPTION

A nominal 6.0-ounce per square yard (140 grams per square meter) UV resistant polypropylene needle punched fabric.

### BASIC USES

Can be used above the membrane as a slipsheet for crushed stone or pavers or below the membrane as a minimum underlayment mat for Mule-Hide's Mechanically Attached or Ballasted System applications. Consult current specifications for underlayment requirements.



### TYPICAL PHYSICAL PROPERTIES

Description	ASTM Test Method	Average Roll Values
Tensile Strength (Grab)	D 4632	160 lbs. (68 Kg)
Burst Strength (Mullen)	D 3786	350 psi (2413 kPa)
Elongation (Ultimate)	D 4632	> 50%
Puncture Strength	D 4833	90 lbs. (41 Kg)
Trapezoidal Tear	D 4533	65 lbs. (30 Kg)
UV Resistance (500 Hr St. Ref)	D 4355	> 70%
Permeability Coefficient	D 4491	0.2 cm/sec
pH Resistance	----	2 - 13
Thickness	----	0.065 in (1.65 mm)
Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.		

### PACKAGING

Roll Size 15' x 300' (4.6m x 92m)  
 Coverage per roll 4500 SF (405 SM)  
 Weight per roll 210 lbs (83Kg)  
 Roll diameter 18 in (460 mm)

### LEED Information

Pre-consumer Recycled Content 5%  
 Post-consumer Recycled Content 0%  
 Manufacturing Location Pendergrass, CA

### INSTALLATION INSTRUCTIONS

**Mechanically Attached Roofing Systems:** Install Mule-Hide HP Protective Mat over the substrate with all edges overlapped a minimum of 3" (75 mm). HP Protective Mat must be fastened to the roof deck with a minimum of one insulation fastener and plate per every 4 square feet.

**Ballasted Roofing Systems:** When specified under Mule-Hide roofing membrane, position the Mule-Hide HP Protective Mat loosely over the substrate with all edges overlapped a minimum of 6" (150 mm). The roofing membrane must be positioned to completely cover the previously installed HP Protective Mat.

The HP Protection Mat can also be installed on top of the Mule-Hide roofing membrane as a protection layer, typically under pavers or crushed stone. After completing all of the membrane and flashing seams, loosely lay the Mule-Hide HP Protective Mat over the membrane with the side laps overlapped a minimum of 6" (150 mm) and end laps overlapped 12" (300 mm). Prior to placement of ballast, extend the HP Protective Mat a minimum of 2" (50 mm) above the anticipated ballast level at the perimeter and penetrations, except at roof drains and scuppers.

The fabric must extend to drain bases and scupper openings but must not cover or restrict flow to the drains. Additional matting must be installed around penetrations to prevent direct contact between crushed stone and flashing.

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Note: Following placement of the HP Protection Mat, install ballast, temporary ballast, or spot-adhere with bonding adhesive to prevent any movement of the unballasted HP Protection Mat.

## **PRECAUTIONS**

This product is not hazardous as defined in CRF 1910.1200  
Dust may be irritating to respiratory tract and eyes  
Material is flammable. Do not expose to open flame

## **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](http://www.mulehide.com) for the latest information, changes and updates or contact Mule-Hide Products Company at 800-786-1492.

## **DISCLAIMER**

The statements provided concerning the material shown are intended as a guide for material usage and are believed to be true and accurate at the time of printing. No statement made by anyone may supersede this information, except when done in writing by Mule-Hide Products Co., Inc. Since the manner of use is beyond our control, Mule-Hide does not authorize anyone to make any warranty of merchantability or fitness for any particular purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material. Buyer and user accept the product under these conditions and assume the risk of any failure, any injury person or property (including that of the user), loss or liability resulting from the handling, storage or use of the product whether or not it is handled, stored or used in accordance with the directions or specifications. Mule-Hide must be notified in writing of any claims and be given the opportunity to inspect the alleged failure before repairs are made.