

20-Year Warranty Design Enhancements

"The name trusted in roofing since 1906"



PVC – Mechanically Attached

Revision Date: May 3, 2019

All products specified for this roofing system must be manufactured or approved by Mule-Hide Products Co. This criteria is limited to buildings of 50' in height and does not include buildings within 20 miles of hurricane coastlines.

Membrane / Other

1. Minimum 60-mil Mule-Hide Reinforced PVC or minimum 50-mil PVC KEE HP.
2. All 'T' joints overlaid with PVC Non-Reinforced Flashing Membrane with heat welded seams. See detail MHP-114.
3. All field seams must be heat welded.

Deck Type / Typical Fastener - Refer to Mule-Hide Specifications for minimum pullout criteria.

Standard Roof Deck (3)	Max Sheet Width	Max Fastener Spacing	Fastener (1)	Seam Plate (1)
Steel - Min 22 ga.	10'	12" OC	HDP(#14)	2.4"
Wood Plank - Min 1" or Plywood - Min 23/32"	10'	12" OC	HDP(#14)	2.4"
Plywood - Min 15/32"	81"	6" OC	HDP(#14)	2.4"
Structural Concrete - Min 3,000 psi	10'	12" OC	HDP(#14) (2)	2.4"

Notes:

1. Heavier gauge fasteners may be required to meet Factory Mutual or code requirements.
2. Other fasteners may be considered, submit request to Mule-Hide prior to bidding.
3. Mechanically attached systems are not allowed over non-standard decks without prior approval by the Mule-Hide Technical Department. Mule-Hide will not issue system warranties on "As-Built" projects where Mule-Hide did not grant approval prior to job start.
4. 3" Insulation Plates are NOT approved for use to fasten membrane.

Slope Requirement/Drainage

1. Positive drainage required (no ponding 48 hours after a rain)
2. 1/4" per horizontal foot preferred
3. 1/8" slope with sufficient number of drains and crickets/saddles may be considered

Construction Type

1. New Construction
2. Reroof – Full tear off of existing roofing down to deck
3. Recover – Over existing roofing system or existing insulation (all wet materials removed and verification by a Independent 3rd party moisture scan)

Insulation/Overlayment - Mechanical Attachment*

Insulation Type or Overlay	Board Size	
	4' x 4'	4' x 8'
Approved Polyisocyanurate - Min 2.0" thick (top layer) - Min 20 psi ³	4	5
Approved Polyisocyanurate – Min 1.0" thick (top layer) – Min 20 psi ³	4	6
HD Fiberboard - Min 1/2" thick- Installed over Approved Insulation	4	6
Dens Deck Prime - Min 1/4" thick - Installed over Approved Insulation	4	6

*Notes:

1. Gypsum board or suitable base sheet may be approved as needed to meet required fire code.
2. Consult Specification Manual for list of approved insulations for use under overlayment.
3. Refer to Mule-Hide Fastener Guide for Polyisocyanurate less than 2.0" in thickness.

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4. Certain codes may require additional fastening requirements.
5. System warranties require the use of Mule-Hide labeled components, products supplied by Mule-Hide or approved in writing by Mule-Hide prior to the start of the project.

Insulation/Overlayment - Adhesive Attachment

1. **Mule-Hide Helix® Max Low-Rise Adhesive.** Refer to the specifications and appropriate Helix® Max Product Data Sheet for acceptable insulations, substrates, and bead spacing.

Metal Accessories

1. All Metal copings, gravel stops, fascia, and drip aprons must be installed according to Mule-Hide approved details.
2. Conventional metal edge details that require flanges to be 'stripped in' must be construction from PVC coated sheet metal and stripped in with PVC membrane. All seams are to be heat-welded.
3. All Metal Scuppers must be constructed of PVC clad metal, have welded (soldered) seams with a continuous flange. See detail MHP-136.
4. Metal accessories provided by Mule-Hide will be included in System warranties.

Perimeter Half Sheets - Number Required

Building Height	Perimeter Sheets
0 to 34 feet	Minimum of two (2) 41" perimeter sheets or 1 (one) 5' perimeter sheets
35 to 70 feet	Minimum of four (4) 41" perimeter sheets or 2 (two) 5' perimeter sheets
Over 70 feet	Contact Mule-Hide Technical Department

Perimeter Half Sheets - Width

Width of Field Sheet	Width of Perimeter Sheets
81"	40.5"
10'	5'

Other Requirements

1. No 'As-Built'. All projects are to be reviewed and approved prior to installation.
2. Shop drawings must include all pertinent details.
3. Contact Mule-Hide Technical Department for specific code requirements such as Factory Mutual (FM) or Underwriters Laboratory (UL).

Warranty Wind Speed (Maximum Peak Gusts)

Wind speed coverage for a specific project will vary depending on the deck type, fastening density, location and height of the roof. Certain codes may require additional fastening requirements.

Contact Mule-Hide Technical Department for specific requirements such as sheet width and fastener spacing.

NOTES:

1. These are enhancements to the Mule-Hide PVC Mechanically Attached System Specification, as written in the Mule-Hide PVC Specification Manual. Refer to the Mule-Hide PVC Specification Manual for complete specification and details.
2. The information contained in this document is general information. Requirements may be different for each specific job based on the conditions of each building. Always contact Mule-Hide Technical Department to review the specific job conditions prior to bidding the project.