



MULE-HIDE PRODUCTS CO., INC
10 or 15 Year Warranty Design Summary
With Standard 55-MPH Wind Speed Coverage
For Mechanically Attached TPO

TPO Systems

All products specified for this roofing system must be manufactured or approved by Mule-Hide Products Co. This criteria is limited to buildings of 100' in height or less, located in urban or suburban exposure areas. Not applicable for coastal or high wind areas.

Membrane

1. 0.045" or 0.060" or 0.080" thick Mule-Hide Reinforced TPO

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.	12'	6" OC	HD-14	2.4"
	10'	12" OC	HD-14	2.4"
Wood Plank - Min 2x or Plywood - Min 23/32"	12'	6" OC	HD-14	2.4"
	10'	12" OC	HD-14	2.4"
Plywood - Min 15/32"	8'	6" OC	HD-14	2.4"
Structural Concrete - Min 3,000 psi	12'	6" OC	HD-14 (2)	2.4"
	10'	12" OC	HD-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. Contact Mule-Hide Technical Department for other roof decks or non-standard roof decks.

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 - with full tear-off
3. Recover - all wet materials removed

Insulation/Overlayment - Mechanical Attachment into Standard Roof Decks*

Insulation Type or Overlay	Board Size	
	4' x 4'	4' x 8'
Approved Polyisocyanurate - Min 1.0" thick (top layer) - Min 20 psi	4	6
Extruded Polystyrene - Min 1.0" thick - Min 25 psi	4	6
HD Fiberboard - Min 1/2" thick- Installed over Approved Insulation	4	8
Dens Deck Prime - Min 1/4" thick - Installed over Approved Insulation	4	8

***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. Contact Mule-Hide Technical Department for Polyisocyanurate less than 1.5" in thickness.
4. Certain codes may require additional fastening requirements.

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Insulation/Overlayment - Adhesive Attachment

1. Insta-Stik by Dow Chemical Company - Other Manufactures may be considered, submit prior to bidding.

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' may be overlaid with TPO Cover Tape.
3. All Metal Scuppers must have welded (soldered) seams.

Other Requirements

1. No 'As-Built' projects. 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 Florida NOA, Factory Mutual (FM) or Underwriters Laboratory (UL).

Perimeter Half Sheets - Number Required

Building Height	Perimeter Sheets
0 to 34 feet	Minimum of one (1) perimeter sheets
35 to 69 feet	Minimum of two (2) perimeter sheets
70 to 100 feet	Minimum of two (2) perimeter sheets (for wind zones up to 80 mph)
Over 100 feet	Contact Mule-Hide Technical Department

Perimeter Half Sheets - Width

Width of Field Sheet	Width of Perimeter Sheets
8'	4'
10'	5' or 6'
12'	6'

NOTES:

1. This is a summary of the Mule-Hide TPO Mechanically Attached System Specification, as written in the Mule-Hide TPO Specification Manual. Refer to Mule-Hide TPO 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.