

20-Year Warranty Design Enhancements

"The name trusted in roofing since 1906"



EPDM – Fully Adhered

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 100' in height or less.

Membrane / Adhesive Type / Other

1. 0.060" thick Mule-Hide EPDM: Standard Black, White-on-Black, or Reinforced Black Membranes.
2. Mule-Hide Bonding Adhesive, Low-VOC Bonding Adhesive, Low-VOC Bonding Adhesive 1168 (California only), EPDM X-23, AeroWEB, Acrylic Water Base Bonding Adhesive, or Aqua Base 120 Bonding Adhesive.
3. Field seams:
 - 6" In-Seam Tape & Primer
 - 3" Pre-Taped EPDM & Primer – end laps must be 6" In-Seam Tape & Primer
 - 3" In-Seam Tape & Primer with 6" Cured Cover Tape
3. RMS and Tape Primer must be used at base of all parapet walls
4. All 'T' joints overlaid with T-Joint covers or EPDM uncured flashing tape.
5. Inside and outside corners:
 - Mule-Hide Pre-Cut Inside/Outside corners
 - Mule-Hide EPDM uncured flashing tape – minimum 9" x 9"

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

Standard Roof Deck (4)	Insulation Fastener (1)	Insulation Plate
Steel (22 gauge or heavier)	Mule-Hide DP (#12)	Mule-Hide 3" Metal Stress Plates
Structural Concrete (3,000 psi)	Mule-Hide HDP (#14) (2)	Mule-Hide 3" Metal Stress Plates
Plywood (Min 15/32" thick)	Mule-Hide DP (#12)	Mule-Hide 3" Metal Stress Plates
Wood Plank (Min 1-1/2" thick)	Mule-Hide DP (#12)	Mule-Hide 3" Metal Stress Plates
Fibrous Cement & Gypsum (2/3)	TL Fasteners by Tru-Fast	3" Galvalume Insulation Plate by Tru-Fast

NOTES:

1. Heavier gauge fasteners may be required for Factory Mutual, code, or wind warranties.
2. Other fasteners may be considered, submit request to Mule-Hide prior to bidding.
3. Pullout testing is required, must exceed 360 pounds with TL Fastener.
4. Contact Mule-Hide Technical Department for non-standard roof decks.
5. 2.4" Seam Plates are NOT approved for use to fasten insulation

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)

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Insulation/Overlayment - Mechanical Attachment*

Insulation Type or Overlay	Fasteners per 4' x 8' board		
	Field	Perimeter	Corner
Approved Polyisocyanurate - Min 2" thick (top layer)	8	12	16
Approved Polyisocyanurate - Min 1.5" up to 2" thick ⁴	12	18	24
½" HD Poly-Iso - Installed over Approved Insulation	16	24	32
HD Fiberboard - Min 1/2" thick- Installed over Approved Insulation	16	24	32
Dens Deck Prime or Securock - Min 1/4" thick - Installed over Approved Insulation	12	18	24
OSB - Min 7/16" thick - Installed over Approved Insulation	17	25	32
Approved OSB/Polyisocyanurate Composite - Min 2" thick	17	25	32

*NOTES:

1. Thicknesses stated are for single or top layer of material.
2. Gypsum board or suitable base sheet may be approved as needed to meet required fire code.
3. Consult Specification Manual for list of approved insulations for use under overlayment.
4. Contact Mule-Hide Technical Department for Polyisocyanurate less than 1.5" in thickness.
5. Certain codes may require additional fastening requirements.
6. 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® Low-Rise Adhesive.** Refer to the specifications and 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 use Cured Cover Tape.
3. All Metal Scuppers must have welded (soldered) seams.
4. Metal accessories provided by Mule-Hide will be included in System warranties.

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 Factory Mutual (FM) or Underwriters Laboratory (UL).

Warranty Wind Speed (Maximum Peak Gusts)

Wind speed coverage for a specific project will vary depending on a variety of factors, including the deck type, fastening density, location, height of the roof, and edge details.

Contact Mule-Hide Technical Department for specific requirements.

NOTES:

1. **These are enhancements to the Mule-Hide EPDM Fully Adhered System Specification, as written in the Mule-Hide EPDM Specification Manual. Refer to Mule-Hide EPDM 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.**