The name trusted in roofing since 1906

PVC - Fully Adhered

Revision Date: May 6, 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 45' in height and does not include buildings within 20 miles of hurricane coastlines.

Membrane / Adhesive Type / Other

- 1. 0.080" thick Mule-Hide PVC or 0.080" KEE HP Reinforced Membranes.
- 2. Adhesive must be Low-VOC PVC Bonding Adhesive.
- 3. All 'T' joints overlaid with pre-manufactured PVC T-Joint Covers heat welded in place.
- 4. Must use pre-fabricated accessories: Pipe Seals, Split Pipe Seals, Square Tubing Wraps, PVC Universal Corners, PVC Inside Corners and PVC Outside Corners.
- 5. All field seams must be heat welded.
- 6. Flashings to be min 0.060" PVC KEE HP Min 8" flashing height
- Base and parapet flashings 48" tall and over require additional flashing securement.

Deck Type / Typical Fastener - Contact Mule-Hide Technical Department for minimum pullout criteria

Standard Roof Deck (4)	Insulation Fastener (1)	Insulation Plate
Steel (22 gauge or heavier)	Mule-Hide HD #14	Mule-Hide 3" Metal Stress Plates
Structural Concrete (3,000 psi)	Mule-Hide HD-14 (2)	Mule-Hide 3" Metal Stress Plates
Plywood (Min 15/32" thick)	Mule-Hide HD #14	Mule-Hide 3" Metal Stress Plates
Wood Plank (Min 1-1/2" thick)	Mule-Hide HD #14	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.
- Other fasteners may be considered, submit request to Mule-Hide prior to bidding.
- 3. Requires fastener pull test.
- 4. 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 Contact Mule-Hide Technical Department

Insulation/Overlayment - Mechanical Attachment* (for 55-MPH peak wind gust warranty)

Insulation Type or Overlay		Fasteners per 4' x 8' board		
		Perimeter	Corner	
Approved Polyisocyanurate - Min 2" thick (top layer) - Min 20 psi	8	12	16	
Approved Polyisocyanurate - Min 1.5" up to 2" thick - Min 20 psi	12	18	24	
HD Fiberboard - Min 1/2" thick- Installed over Approved Polyisocyanurate	16	24	32	
Dens Deck Prime - Min 1/4" - Installed over Approved Polyisocyanurate	12	18	24	
OSB - Min 7/16" thick - Installed over Approved Polyisocyanurate	17	25	32	
Approved OSB/Polyisocyanurate Composite - Min 2" thick	17	25	32	

See Notes on next page

30-Year Warranty Design Enhancements

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*NOTES:

- 1. InsulFoam and InsulFoam R-Tech insulation is approved for warranty but it must be installed with an approved overlay board.
- 2. Thicknesses stated are for single layer of material.
- 3. Consult Specification Manual for list of approved insulations for use under overlayment.
- 4. Polyisocyanurate less than 1.5" and InsulFoam expanded polystyrene must have approved overlayment.
- 5. Insulation fastening density shall not be less than 1 per 2 square feet on fibrous cement and gypsum decks.
- 6. Certain codes may require additional fastening requirements.
- 7. Mule-Hide defines perimeter areas as a minimum of 8 feet. Corners areas are the intersections of the perimeter areas.
- 8. Factory Mutual defines perimeter areas as the lesser of 0.1 times the building width or 0.4 times the building height. Corners areas are the intersections of the perimeter areas.

Insulation/Overlayment - Adhesive Attachment

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

Metal Accessories

- 1. For Warranted Wind Speeds of 55-MPH, all metal copings, gravel stops, fascia, and drip aprons must be either Mule-Hide pre-manufactured Edge Metal, or constructed with PVC Coated Metal with continuous clips as per approved Mule-Hide details.
- 2. Mule-Hide All Purpose Bar is required when a compression bar termination is specified and must be utilized in conjunction with a counterflashing.
- 3. For Warranted Winds Speeds greater than 55-MPH, Mule-Hide pre-manufactured Metal Edge must be used.
- 4. All metal scuppers must be constructed of PVC clad metal, have welded (soldered) seams and continuous (front) flange. Pre-fabricated scuppers are strongly recommended.
- 5. Pitch pans must be constructed from molded sealant pockets with rain hood (by others).

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 job requirements.

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.