



SUMMARY SPECIFICATION

PVC – METAL RETROFIT ATTACHING INTO PURLINS

This Summary Specification is a brief overview of Mule-Hide Product's specification and requirements for a Metal Retrofit Mule-Hide Reinforced PVC Roofing System and is intended for use as a submittal in a bid package. Specifier's and Mule-Hide Warranty Eligible Applicators must comply with Mule-Hide Product's specifications and requirements prior to design or bid.

Part 1 General

1.01 Description

The Mule-Hide Metal Retrofit into Purlins Reinforced PVC Roofing System utilizes a (maximum) 10' wide, scrim reinforced Mule-Hide PVC membrane in thickness of 50, 60, or 80 mil. Approved insulation is used as infill between the standing seams and a cover board is attached to the substrate with Mule-Hide Insulation fasteners and plates. The PVC membrane is secured by with 2.4" Seam Plates and Purlin Fasteners that are attached into the purlins. Membrane sheets are laid out so that edge of the top sheet is adjacent to plates and fasteners of lower sheets. 'Excess' material extends beyond plates and fasteners, and is hidden under top sheet. Sheets and seamed together with a min 1.5" wide heat weld.

1.02 Quality Assurance

- A. The roofing system must be installed by a Mule-Hide Warranty Eligible Applicator in accordance with installation guidelines and detail drawings as approved by Mule-Hide. Prior written approval from the Mule-Hide Warranty Department is required for all deviations from Mule-Hide's published specifications and details.
- B. Projects requesting a Labor and Material Warranty will be inspected by a Mule-Hide Representative to verify that Mule-Hide's installation and material requirements have been met.
- C. Underwriters Laboratories (UL), Factory Mutual (FM) and other ratings may not exist for this system. Call Mule-Hide Products for additional information.

1.03 Submittals

- A. To ensure compliance with Mule-Hide's warranty requirements contact the Mule-Hide Warranty Department if any of the following conditions exist.
 - 1. Wind speed warranty greater than 55 MPH.
 - 2. Building height > 50'
 - 3. Projects located in coastal or high wind zones.
 - 4. Projects having purlin spacing > 5'

- 5. Pressurized buildings
- 6. Cold Storage or Freezer Buildings
- 7. Membrane exposed to chemicals

- B. Submit a completed Warranty Application form to Mule-Hide prior to bidding. Also include fastener pullout testing results as required for non-standard substrates.
- C. All projects must have a Mule-Hide warranty application number assigned prior to inspection.

1.04 Product Delivery, Storage, and Handling

- A. Deliver materials to the job site in original, unopened containers, with the manufacturer's name, brand name and installation instructions.
- B. Store all materials in a dry, clean area protected from the elements, as per manufacturer's recommendations.

1.05 Job Conditions

- A. This system is limited to projects having minimum 18-ga structural purlins.
- B. Projects having purlin spacing > 5' must be submitted to Mule-Hide for approval.
- C. Existing guttering systems should be investigated to determine their functionality with the new roofing system.
- E. Coordinate work between all trades to avoid traffic over completed sections of roofing.

1.06 Warranty.

Fees are required for all Labor and Material (System) Warranties. System Warranties must be obtained through a Mule-Hide Warranty Eligible Applicator. All projects requesting a System Warranty must be inspected by a Mule-Hide Representative. Components of the roofing system must be supplied by Mule-Hide. Warranty covers only Mule-Hide supplied materials. Sample warranties are available upon request. Contact Mule-Hide Warranty Department for warranty requirements.

Part 2 Products

2.01 General

The components of this roofing system are to be manufactured, supplied, or approved in writing by Mule-Hide Products.

2.02 Membrane

Mule-Hide White, Gray, or Tan, reinforced 50, 60, or 80-mil thick PVC membrane is used for this system. The membrane is available in a variety of widths up to 10' and in lengths of 100'. Refer to our Product Data Sheet for physical properties and other information.

2.03 Related Materials

Mule-Hide products include: Reinforced and Non-Reinforced Flashings, Bonding Adhesives, Cut-Edge Sealant, PVC Coated Metal, Membrane fasteners and discs, Thermoplastic One-Part Pourable Sealer, All-Purpose Bar, PVC Walkway Roll, Universal Single Ply Sealant, and other components.

Part 3 Execution

3.01 General

- A. Work should begin at the highest point of the roof level and proceed to the lowest point. Work should be completed on a daily bases including flashings, terminations, and daily seals.
- B. Prepare the existing roof deck or substrate according to Mule-Hide design guides and full-system specifications prior to applying the new roofing system.

3.02 Roof Deck Criteria

- A. A proper substrate shall be provided by the building owner. The structure shall be able to withstand normal construction loads and live loads.
- B. Substrate must allow for drainage so that all water is removed within 48 hours after a rain.

3.03 Substrate Preparation

- A. Repair or replace rusted, deteriorated, or damaged metal panels prior to installation.
- B. Substrate must be clean, level, and smooth so that the insulation lays flat.

3.04 Installation

Refer to the applicable Product Data Sheets and Safety Data Sheets for cautions and warnings.

A. Insulation Attachment

Install fill insulation and overlay with cover board. Attach cover board with Mule-Hide roofing fasteners and plates at min rate of 1 fastener per 5.33 sq. ft.

B. Membrane Installation and Hot Air Welding

Place membrane over substrate with lower edge extending past center of purlin by approximately 3 ¼". Excess field membrane will extend beyond next purlin location. Attach membrane to appropriate purlin with 2.4" seam plates and purlin fasteners. Membrane attachment will depend upon job specifics. Contact Mule-Hide Technical Department for additional information. Membrane markings will not apply since sheet width will not line up with purlin spacing. Ensure that laps will shed water. Allow membrane to relax. After membrane has relaxed, hot-air weld seams with automatic welder to achieve a min 1.5" wide heat weld.

C. Additional Membrane Securement

The membrane must be secured at the perimeter of each individual roof area, projection, and any angle change that exceeds 2" per lineal foot. Consult Mule-Hide's published detail drawings.

D. Membrane Flashing

Flashings must be terminated along top edge as per appropriate Mule-Hide detail.

E. Other Related Work

1. Walkways should be provided in areas where regular rooftop traffic is expected. Walkways are considered a maintenance item and are excluded from the Mule-Hide warranty.
2. Mule-Hide PVC Walkway Rolls are to be installed over clean, dry surfaces, with a minimum 6" spacing over field seams. Hot air weld the perimeter of the Walkway Roll to the field membrane.
3. Copings, counter flashing and other metal work shall be fastened to resist wind uplift and prevent buckling. Metal should be sealed to prevent moisture infiltration.

This summary specification represents the applicable information available at time of publication. Mule-Hide reserves the right to change this information at any time. Contact Mule-Hide Products or visit our website at www.mulehide.com for the latest updates, changes, or modifications to this summary specification.