SECTION 6

MULE-HIDE PRODUCTS CO., INC.
20 YEAR WARRANTY SPECIFICATION ENHANCEMENTS

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PLEASE CONSULT THE MULE-HIDE WEBSITE FOR THE MOST CURRENT INFORMATION

MULE-HIDE PRODUCTS CO., INC
20-Year Warranty Design Enhancements
For Ballasted EPDM
Roofing System Specification

EPDM 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 50' 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. Field seams:
   - 6" In-Seam Tape & Primer
   - 3" Pre-Taped EPDM & 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 EPDM uncured flashing tape.
5. Inside and outside corners are to be double flashed.

Deck Type

1. Any roof deck capable of supporting the weight of a Ballasted System may be used.
2. The determination that the roof deck can support the required additional loads shall be the responsibility of the building owner/owner's representative.

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
4. Maximum roof slope of 2:12

Construction Type

1. New Construction
2. Reroof - with full tear-off
3. Recover - all wet materials removed and verification by a Independent 3rd party moisture scan

Insulation/Overlayment*

Insulation Type or Overlay
Approved Polyisocyanurate - Min 1" thick - Min 20 psi
Approved Extruded Polystyrene - Min 3/4" - Min 15 psi
Approved Expanded Polystyrene - Min 1" - Min 1 lbs density
HD Fiberboard - Min 1/2" thick- Installed over Approved Insulation

***NOTES:**

1. Thicknesses stated are for single layer of material.
2. Consult Specification Manual for list of approved insulations for use under overlayment.
3. Insulation must be loose-laid over an approved substrate.
4. Mechanical attachment of insulation is not permitted.
5. An approved insulation adhesive may be used with prior approval.

MULE-HIDE PRODUCTS CO., INC.
20-Year Warranty Design Enhancements
For Ballasted EPDM

Ballast Requirements

Building Height	Ballast Requirements
Up to 25'	#2 Stone @ 13#/SF for 10' wide perimeter #4 Stone @ 10#/SF for field of roof
26' to 50'	#2 Stone @ 13#/SF for 20' corners #2 Stone @ 13#/SF for 10' wide perimeter #4 Stone @ 10#/SF for field of roof
Over 50'	Mule-Hide recommends the use of a interlocking ballast paver system

Concrete Pavers

1. Minimum Size: 2' x 2' x 2"
2. Minimum Weight: 22 pounds per square foot
3. Membrane Protection: Rubber or plastic pedestals, or 4" x 4" sections of Mule-Hide Walkway Pads.
4. Paver type must be submitted to Mule-Hide for approval prior to bid.

Metal Accessories

1. All metal copings, gravel stops, fascia, and drip aprons must be Mule-Hide Metal Accessories or pre-manufactured as per approved details.
2. Mule-Hide All Purpose Bar is required when a compression bar termination is specified and must be utilized in conjunction with counterflashing.
3. Mule-Hide Metal Accessories or the Metal-Era Anchor-Tite System must be used when the sheet metal is to be included under the warranty.
4. Conventional metal edge details that require flanges to be 'stripped in' must be overlaid with Cured Cover Tape.
5. 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 Factory Mutual (FM) or Underwriters Laboratory (UL).
4. Rubber walkway pads can not be used within 10' of the roof perimeter for buildings exceeding 50' in height.

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, 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 Ballasted 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 the project.**

MULE-HIDE PRODUCTS CO., INC
20-Year Warranty Design Enhancements
For Fully Adhered EPDM
Roofing System Specification

EPDM 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.

Membrane / Adhesive Type / Other

1. 0.060" thick Mule-Hide EPDM: Standard Black, White-on-Black, or Reinforced Black Membranes.
2. Field seams:
   - 6" In-Seam Tape & Primer
   - 3" Pre-Taped EPDM & 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 EPDM uncured flashing tape.
5. Inside and outside corners are to be double flashed.

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 HD-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 - with full tear-off
3. Recover - all wet materials removed and verification by a Independent 3rd party moisture scan

Insulation/Overlayment - Mechanical Attachment*

	Fasteners per 4' x 8' board		
Insulation Type or Overlay	**Field**	**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
StructoDek HD Fiberboard with Primed Red Coating - Min 1/2" thick- Installed as an overlay or recover board	16	24	32
Dens Deck Prime or Securock - Min 1/4" - Installed as an overlay or recover board	12	18	24
OSB - Min 7/16" thick - Installed as an overlay	17	25	32

MULE-HIDE PRODUCTS CO., INC.
20-Year Warranty Design Enhancements
For Fully Adhered EPDM

***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. Certain codes may require additional fastening requirements.
6. Mule-Hide defines perimeter areas as a minimum of 8 feet. Corners areas are the intersections of the perimeter areas.
7. 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. Weather-Tite One-Step by Millenium or Insta-Stik by Dow Chemical Company - Warranty Application must include a copy of the manufacturer's letter of acceptance for the project, including application rates for that specific project. Other Manufactures may be considered, submit prior to bidding.

Metal Accessories

1. All Metal copings, gravel stops, fascia, and drip aprons must be Mule-Hide Metal Accessories or pre-manufactured as per approved details.
2. Mule-Hide All Purpose Bar is required when a compression bar termination is specified and must be utilized in conjunction with counterflashing.
3. Mule-Hide Metal Accessories or the Metal-Era Anchor-Tite System must be used when the sheet metal is to be included under the warranty.
4. Conventional metal edge details that require flanges to be 'stripped in' must be overlaid with Cured Cover Tape.
5. 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 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.**

MULE-HIDE PRODUCTS CO., INC
20-Year Warranty Design Enhancements For Mechanically Attached EPDM Roofing System Specification

EPDM 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 50' in height and does not include buildings within 20 miles of hurricane coastlines.

Membrane / Adhesive Type / Other

1. 0.060" thick Mule-Hide EPDM Reinforced Membrane
2. Field seams: 6" In-Seam Tape & Primer
3. RMS and Tape Primer must be used at base of all parapet walls.
4. All 'T' joints overlaid with EPDM uncured flashing tape.
5. Inside and outside corner details must be double flashed.

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

Standard Roof Deck (3)	**Max Sheet Width**	**Max Fastener Spacing**	**Fastener** (1)	**Seam Plate** (1)
Steel - Min 22 ga. or Wood Deck - Min 1"	8' 10'	12" OC 6" OC	HD-14 HD-14	2.0" 2.0"
Plywood - Min 15/32"	8'	6" OC	HD-14	2.0"
Structural Concrete - Min 3,000 psi	10'	6" OC	HD-14 (2)	2.0"

Notes:

1. Heavier fasteners and/or plates 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. Contact Mule-Hide Technical Department for 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 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 1.5" thick (top layer) - Min 20 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.
5. An approved insulation adhesive may be used with prior approval.

Metal Accessories

1. All Metal copings, gravel stops, fascia, and drip aprons must be Mule-Hide Metal Accessories or pre-manufactured as per approved details.
2. Mule-Hide All Purpose Bar is required when a compression bar termination is specified and must be utilized in conjunction with counterflashing.
3. Mule-Hide Metal Accessories or the Metal-Era Anchor-Tite System must be used when the sheet metal is to be included under the warranty.
4. Conventional metal edge details that require flanges to be 'stripped in' must be overlaid with Cured Cover Tape.
5. All metal scuppers must have welded (soldered) seams.

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 EPDM Mechanically Attached 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 the project.**

MULE-HIDE PRODUCTS CO., INC
20-Year Premium Warranty Design Enhancements
For Ballasted EPDM
Roofing System Specification

EPDM 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 50' 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. Field seams:
   - 6" In-Seam Tape & Primer
   - 3" Pre-Taped EPDM & 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 EPDM uncured flashing tape.
5. Inside and outside corners are to be double flashed.

Deck Type

1. Any roof deck capable of supporting the weight of a Ballasted System may be used.
2. The determination that the roof deck can support the required additional loads shall be the responsibility of the building owner/owner's representative.

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
4. Maximum roof slope of 2:12

Construction Type

1. New Construction
2. Reroof - with full tear-off
3. Recover - all wet materials removed and verification by a Independent 3rd party moisture scan

Insulation/Overlayment*

Insulation Type or Overlay
Mule-Hide Polyisocyanurate - Min 1" thick - Min 20 psi
HD Fiberboard - Min 1/2" thick- Installed over Mule-Hide Polyisocyanurate

***NOTES:**

1. Thicknesses stated are for single layer of material.
2. Premium Warranty requires the use of Mule-Hide Polyisocyanurate insulation.
3. Insulation must be loose-laid over an approved substrate.
4. Mechanical attachment of insulation is not permitted.
5. An approved insulation adhesive may be used.

MULE-HIDE PRODUCTS CO., INC.
20-Year Premium **Warranty Design Enhancements**
For Ballasted EPDM

Ballast Requirements

Building Height	Ballast Requirements
Up to 25'	#2 Stone @ 13#/SF for 10' wide perimeter #4 Stone @ 10#/SF for field of roof
26' to 50'	#2 Stone @ 13#/SF for 20' corners #2 Stone @ 13#/SF for 10' wide perimeter #4 Stone @ 10#/SF for field of roof
Over 50'	Mule-Hide recommends the use of a interlocking ballast paver system

Concrete Pavers

1. Minimum Size: 2' x 2' x 2"
2. Minimum Weight: 22 pounds per square foot
3. Membrane Protection: Rubber or plastic pedestals, or 4" x 4" sections of Mule-Hide Walkway Pads.
4. Paver type must be submitted to Mule-Hide for approval prior to bid.

Metal Accessories

1. All metal copings, gravel stops, fascia, and drip aprons must be Mule-Hide Metal Accessories or pre-manufactured as per approved details.
2. Mule-Hide All Purpose Bar is required when a compression bar termination is specified and must be utilized in conjunction with counterflashing.
3. Mule-Hide Metal Accessories or the Metal-Era Anchor-Tite System must be used when the sheet metal is to be included under the warranty.
4. Conventional metal edge details that require flanges to be 'stripped in' must be overlaid with Cured Cover Tape.
5. 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 Factory Mutual (FM) or Underwriters Laboratory (UL).
4. Rubber walkway pads can not be used within 10' of the roof perimeter for buildings exceeding 50' in height.

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, 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 Ballasted 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 the project.**

MULE-HIDE PRODUCTS CO., INC

20-Year **Premium** Warranty Design Enhancements
For Fully Adhered EPDM
Roofing System Specification

EPDM 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.

Membrane / Adhesive Type / Other

1. 0.060" thick Mule-Hide EPDM: Standard Black, White-on-Black, or Reinforced Black Membranes.
2. Field seams:
   - 6" In-Seam Tape & Primer
   - 3" Pre-Taped EPDM & 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 EPDM uncured flashing tape.
5. Inside and outside corners are to be double flashed.

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 HD-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 - with full tear-off
3. Recover - all wet materials removed and verification by a Independent 3rd party moisture scan

Insulation/Overlayment - Mechanical Attachment*

	Fasteners per 4' x 8' board		
Insulation Type or Overlay	**Field**	**Perimeter**	**Corner**
Mule-Hide Polyisocyanurate - Min 2" thick (top layer) - Min 20 psi	8	12	16
Mule-Hide Polyisocyanurate - Min 1.5" up to 2" thick - Min 20 psi	12	18	24
StructoDek HD Fiberboard with Primed Red Coating - Min 1/2" thick- Installed as an overlay or recover board	16	24	32
Dens Deck Prime or Securock - Min 1/4" - Installed as an overlay or recover board	12	18	24
OSB - Min 7/16" thick - Installed as an overlay	17	25	32

MULE-HIDE PRODUCTS CO., INC.
20-Year Warranty Design Enhancements
For Fully Adhered EPDM

***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. Premium Warranty requires the use of Mule-Hide Polyisocyanurate insulation.
6. Insulation fastening density shall not be less than 1 per 2 square feet on fibrous cement and gypsum decks. 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. Weather-Tite One-Step by Millenium or Insta-Stik by Dow Chemical Company - Warranty Application must include a copy of the manufacturer's letter of acceptance for the project, including application rates for that specific project. Other Manufactures may be considered, submit prior to bidding.

Metal Accessories

1. All Metal copings, gravel stops, fascia, and drip aprons must be Mule-Hide Metal Accessories or pre-manufactured as per approved details.
2. Mule-Hide All Purpose Bar is required when a compression bar termination is specified and must be utilized in conjunction with counterflashing.
3. Mule-Hide Metal Accessories or the Metal-Era Anchor-Tite System must be used when the sheet metal is to be included under the warranty.
4. Conventional metal edge details that require flanges to be 'stripped in' must be overlaid with Cured Cover Tape.
5. 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 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.**

MULE-HIDE PRODUCTS CO., INC
20-Year Premium Warranty Design Enhancements For Mechanically Attached EPDM Roofing System Specification

EPDM 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 50' in height and does not include buildings within 20 miles of hurricane coastlines.

Membrane / Adhesive Type / Other

1. 0.060" thick Mule-Hide EPDM Reinforced Membrane
2. Field seams: 6" In-Seam Tape & Primer
3. RMS and Tape Primer must be used at base of all parapet walls.
4. All 'T' joints overlaid with EPDM uncured flashing tape.
5. Inside and outside corners must be double flashed.

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

Standard Roof Deck (3)	**Max Sheet Width**	**Max Fastener Spacing**	**Fastener** (1)	**Seam Plate** (1)
Steel - Min 22 ga. or Wood Deck - Min 1"	8' 10'	12" OC 6" OC	HD-14 HD-14	2.0" 2.0"
Plywood - Min 15/32"	8'	6" OC	HD-14	2.0"
Structural Concrete - Min 3,000 psi	10'	6" OC	HD-14 (2)	2.0"

Notes:

1. Heavier fasteners and/or plates 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. Contact Mule-Hide Technical Department for 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 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'**
Mule-Hide Polyisocyanurate - Min 1.5" thick (top layer) - Min 20 psi	4	6
HD Fiberboard - Min 1/2" thick- Installed over Mule-Hide Polyisocyanurate	4	8
Dens Deck Prime - Min 1/4" thick - Installed over Mule-Hide Polyisocyanurate	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. Premium warranties require the use of Mule-Hide Polyisocyanurate roof insulation
5. Certain codes may require additional fastening requirements.
5. An approved insulation adhesive may be used with prior approval.

Metal Accessories

1. All Metal copings, gravel stops, fascia, and drip aprons must be Mule-Hide Metal Accessories or pre-manufactured as per approved details.
2. Mule-Hide All Purpose Bar is required when a compression bar termination is specified and must be utilized in conjunction with counterflashing.
3. Mule-Hide Metal Accessories or the Metal-Era Anchor-Tite System must be used when the sheet metal is to be included under the warranty.
4. Conventional metal edge details that require flanges to be 'stripped in' must be overlaid with Cured Cover Tape.
5. All metal scuppers must have welded (soldered) seams.

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.

NOTES:

1. **These are enhancements to the Mule-Hide EPDM Mechanically Attached 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 the project.**