



## Fully Adhered EPDM Modular Roofing System Inspection Checklist

This checklist represents areas where errors are most common. Each area should be checked thoroughly following the guidelines included under each heading. Questionable details should have been clarified prior to installation; however, if not addressed in this document the Fully Adhered EPDM Modular Roofing System Specification Manual and Details should be referenced or contact Mule-Hide (800) 786-1492.

Because modular units are factory assembled and transported to the job site, it is important to conduct an inspection on each unit prior to transportation. This inspection checklist may also be used by the set up crew in addition to the **Mule-Hide Setup & Dismantling Handbook\***.

[\*Bracketed numbers in this Checklist refer to Details shown in Handbook.]

This checklist is designed as a self-inspection tool for modular unit manufacturers. It is advisable to designate a Quality Control person to perform these routine inspections to ensure consistency. This checklist may be copied and duplicated and is recommended for inclusion in the project file.

**Project Name:** \_\_\_\_\_ **Number of Units:** \_\_\_\_\_

**Unit Identifier:** \_\_\_\_\_

**Location to be Shipped:** \_\_\_\_\_

**Time of Inspection:** \_\_\_\_\_ **Location of Inspection:** \_\_\_\_\_

**Inspected by:** \_\_\_\_\_ **Date:** \_\_\_\_\_

### A. MEMBRANE BONDING

- Membrane must be adhered 100% to the substrate with Mule-Hide Water Base Bonding Adhesive.
- Membrane wrinkles are not acceptable in the splice area or any termination. Only minor wrinkles are acceptable in the sheet.

### B. MEMBRANE SPLICES

- Minimum 3-inch wide splice.
- No wrinkles through the splice area.
- No fishmouths in the splice area.
- Use Tape Primer to clean mating membrane surfaces before splicing and to clean splice edge after splicing (when using Splice Adhesive) where Lap Sealant is to be applied.
- Splice Adhesive or In-Seam Tape must be used on all cured membrane splices. [MHE-110 or MHE-111]
- Lap Sealant must be applied to all splice edges when using Splice Adhesive and on all Flashing edges. Lap Sealant is not required when using In-Seam Tape to splice field seams except at factory seams.

### C. VERTICAL MEMBRANE FLASHING (walls, curbs, etc.)

- Membrane securement is required at the perimeter of each roof level, roof section, expansion joint, curb flashing, skylight, interior wall, etc., at any inside angle change where slope or combined slopes exceed 2 inches in one horizontal foot, and at other penetrations in accordance with Mule-Hide's details.
- Membrane securement shall be 12 inches on center maximum.
- Avoid membrane bridging at base of wall. [MHE-125]

- Proper membrane termination is required at the top of all vertical flashing. [MHE-170 or MHE-172]

**D. CORNERS** [MHE-183, 184, 185]

- Use Pre-cut Corners or Uncured Flashing Tape or Uncured Flashing.
- Uncured Flashing Tape or Uncured Flashing must extend past corner 2 inches minimum; Pre-cut Corners must be centered at corner.
- Check all outside corners for separation 24 hours after application. Four (4) primary causes for separation:
  - Wet adhesive at angle change when the Uncured Flashing is installed.
  - Failure to use heat gun when required.
  - Pre-Cut Corners or Uncured Flashing Tape or Uncured Flashing, which has cured.
  - Failure to apply Tape Primer prior to using Pre-Cut Corners or Uncured Flashing Tape. [MHE-313A]

**E. ROOF DRAIN** [MHE-130 or MHE-131]

- All bolts and/or clamps must be in place.
- The seal between the membrane and the drain base must be accomplished by Water Cut-Off Mastic under compression.
- Under no circumstances should the hole in the membrane restrict water flow or be smaller than the drain tube.

**F. INTERCONNECTION OF MODULAR UNITS**

- Check membrane splices for proper application; refer to Membrane Splices above.

**G. MISCELLANEOUS**

- Remove debris or any foreign material from the surface of the completed roof.
- Pre-Molded Pipe Boots [MHE-140B]
  - Cannot be cut and spliced.
  - Must not be installed inside out.
  - Must have Water Cut-Off Mastic (between the boot and the pipe) and stainless steel clamp at the top of the cone. Top of Top rib must be intact. Top of cone shall be caulked with Lap Sealant.
- Field Fabricated Pipe Flashing [MHE-141]
  - Must be installed with at least two pieces of uncured. Flashing Tape or Uncured Flashing: One base and one vertical wrap.
  - Base piece must extend 6 inches minimum away from the pipe, extend ½ inch minimum up the pipe, and the cut in the base piece must overlap itself 1-inch minimum.
  - Vertical wrap must splice onto the base piece 1-inch minimum and achieve a 3-inch minimum vertical splice.
  - Check for splice separation at the angle change.
  - Lap Sealant must be applied to all splice edges.
  - Do not install stainless steel clamping ring.
- Roof Vents [MHE-309]
  - **Do not use shingle vents of any kind on low slope roofing systems.\***
  - Use only standard vents designed specifically for low slope roofing systems. Flash with pipe boots or field fabricate.\*

\*Optional Non-Warranty metal vent detail outlined in the Modular Roof Systems Binder, Specifications section Part 3, Installation. Under item 3.08 Metal Flashings page 25-26.
- Scuppers [MHE-134]
  - Check to make sure flashing is not bridging.
  - Scupper must be installed over field sheet and secured with fasteners.
  - Scupper must be stripped with uncured flashing tape and lap sealant applied to all edges of tape.
  - Check to insure the sleeve is watertight and extends beyond the fascia.