



Designation: D6369 – 99(Reapproved 2006)

Standard Guide for Design of Standard Flashing Details for EPDM Roof Membranes¹

This standard is issued under the fixed designation D6369; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This guide covers the design of details for typical conditions encountered in new ballasted, mechanically attached or fully adhered ethylene propylene diene terpolymer (EPDM) sheet roof systems.

1.2 This guide illustrates general details for typical conditions that may be encountered on an EPDM sheet roofing system. The guide will assist the designer in preparing details for each specific condition that may occur on a project.

1.3 The values stated in SI units are to be regarded as standard. The conventional units given in parentheses are provided for information purposes only.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 *ASTM Standards:*²

D1079 Terminology Relating to Roofing and Waterproofing

3. Terminology

3.1 *Definitions*—For definitions of terms used in this guide and not listed below, see Terminology **D1079**.

3.2 *ballasted sheet roofing, n*—a system which incorporates a loose laid vulcanized EPDM sheet over an accepted substrate and is held in place with either stone ballast, pavers, or a combination thereof.

3.3 *fully adhered sheet roofing, n*—a system which incorporates a vulcanized EPDM sheet fully adhered over a secured and accepted substrate.

¹ This guide is under the jurisdiction of ASTM Committee **D08** on Roofing and Waterproofing and is the direct responsibility of Subcommittee **D08.18** on Nonbituminous Organic Roof Coverings.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

3.4 *mechanically attached sheet roofing, n*—a system which incorporates a mechanically fastened vulcanized EPDM sheet over a secured and accepted substrate.

4. Significance and Use

4.1 This guide illustrates general details for typical conditions that may be encountered on an EPDM sheet roofing system.

4.2 This guide does not address all requirements associated with the installation of EPDM membrane flashing, such as membrane cleaning and surface preparation, fastener spacing, adhesive application and other seaming requirements which may vary by membrane system supplier.

4.3 Insulation, fastener types, protection mats, stone ballast, pavers, and requirements for perimeter attachment are not covered by this guide. The designer shall review the project requirements and consult the membrane system supplier, building insurer, and local building codes for specific requirements.

5. Drawings

5.1 This guide is not all-inclusive. The designer shall detail all typical and special conditions on the project. Particular attention shall be given to transitions in plane and intersection of different details. The membrane system supplier or system applicator shall provide shop drawings of each condition to confirm field conditions and to verify their understanding of the design intent.

5.2 Insulation, protection mats, stone ballast and pavers have been omitted for clarity.

5.3 Treated wood blocking shall be installed to provide attachment for accessory items such as gravel stops, metal sleeves, etc.

6. Penetrations

6.1 Flashing at penetrations shall accommodate differential movement between the deck and penetration (that is, pipe, conduit, column or drain).

6.1.1 Where “H” or “T” column sections occur, install blocking between flanges to facilitate installation of flashing. Weld sloping steel hoods to column. Extend vertical leg of hood a minimum 100 mm (4 in.) over flashing.