



Standard Practice for Application of Mechanically Attached Poly(Vinyl Chloride) Sheet Roofing¹

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1. Scope

1.1 This practice covers the minimum requirements for the installation of mechanically attached poly(vinyl chloride) roofing.

1.2 For the purpose of this application practice, the structure and deck are assumed to be mechanically sound, able to accept the weight of the membrane and other roofing system materials, comply with local building codes, and other roofing requirements. The insulation layer(s) and vapor retarder, if specified, are assumed to be in place, secured, and acceptable for use with the membrane.

1.3 *This standard does not purport to address all of the safety problems 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.* For specific hazard statements, see Section 7.

2. Referenced Documents

2.1 ASTM Standards:

D 1079 Terminology Relating to Roofing, Waterproofing, and Bituminous Materials²

D 4434 Specification for Poly(Vinyl Chloride) Sheet Roofing²

2.2 Other Standards:

Factory Mutual Research Corporation Approval Standard, Number FM 4470, Class I Roof Covers, April 1986³

3. Terminology

3.1 *Definitions*—For definitions of terms used in this practice, see Terminology D 1079.

4. Materials Definitions

4.1 *Poly(Vinyl Chloride) Sheets Roofing*—Roofing material that meets the requirements of Specification D 4434.

4.2 *Lap Seam Sealant*— When required by the

manufacturer/supplier, provide a compatible sealant that will be applied to the exposed edge of the seam.

4.3 *Mechanical Affixments*—The mechanical fasteners and plates, discs, bars, or strips specified for use in the system must meet the guidelines outlined in FM Standard 4470 for surface corrosion and shall meet the specific requirements of the manufacturer/supplier.

5. Delivery of Materials

5.1 Deliver materials in supplier's unopened containers and packages.

6. Storage and Handling of Materials

6.1 Elevate stored materials and under protective covering. Roll goods shall be stored in a horizontal position, and in a manner that prevents the supplier's markings from being destroyed.

6.2 Store solvents in proper containers to prevent dilution or contamination, or both.

6.3 Store flammable materials in original closed containers away from any ignition source.

6.4 Consult membrane manufacturer/supplier for additional direction.

7. Safety Hazards

7.1 Store flammable materials in a manner that will not pose a fire hazard.

7.2 Shut down roof top air handling equipment and air intakes in the work area to reduce odors from entering the building.

8. Environmental Conditions

8.1 Install roofing components during weather conditions that do not interfere with pliability, or workability.

8.2 Installation outside of these conditions require special conditions beyond the scope of this practice.

8.3 Wind may cause difficult working conditions. Temporary ballasting of roofing sheets may be required. Work surfaces must be protected from windblown dirt and debris.

9. Substrate Preparation

9.1 Surfaces to receive sheets shall be sufficiently clean of contaminants such as dirt, debris, loose materials, and visible moisture. Remove sharp objects that could damage the roofing.

¹ This practice is under the jurisdiction of ASTM Committee D-8 on Roofing, Waterproofing, and Bituminous Materials and is the direct responsibility of Subcommittee D08.18 on Nonbituminous Organic Roof Coverings.

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² *Annual Book of ASTM Standards*, Vol 04.04.

³ Available from Factory Mutual Research Corp., 1151 Boston-Providence Turnpike, Norwood, MA 02062.