

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

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1. Scope

1.1 This practice covers the minimum requirements for the installation of adhered 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 and bonding adhesive.

1.3 *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.* For specific hazard statements, see Section 5.

2. Referenced Documents

2.1 ASTM Standards:

D 312 Specification for Asphalt Used in Roofing²

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

D 4434 Specification for Poly(Vinyl Chloride) Sheet Roofing²

3. Delivery of Materials

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

4. Storage and Handling of Materials

4.1 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.

4.2 Store non-asphaltic adhesives in original tightly closed containers at temperatures between 5 and 30°C (40 and 85°F). Short term excursions beyond these temperatures may be allowable (for example, overnight, or during periods of inclem-

ent weather). Emulsion type adhesives shall not be allowed to freeze.

4.3 Do not exceed the labeled shelf life.

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

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

4.6 Store asphalt in original containers.

4.7 Consult membrane manufacturer/supplier for additional direction.

5. Safety Hazards

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

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

6. Environmental Conditions

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

6.1.1 Do not attempt bonding in conditions such as dew, fog, rain, snow, or when frost occurs on the surfaces of either the membrane, bonding/solvent adhesive, or when the ambient air temperature is below 5°C (40°F) or above 50°C (122°F).

6.1.2 Do not use emulsion adhesives if the ambient air temperature is expected to drop below 5°C (40°F) within 24 h after bonding the sheet.

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

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

7. Materials Definitions

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

7.2 *Bonding Adhesive*—Provide adhesive, supplied or approved by the membrane manufacturer, to develop a bond between the membrane and the substrate to which the membrane is to be attached. Adhesive may be of three types: solvent-based bonding adhesive, water-based adhesive, or asphalt.

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.