

Siplast SA Vapor Retarder

Installer's Guide



With you every step of the way

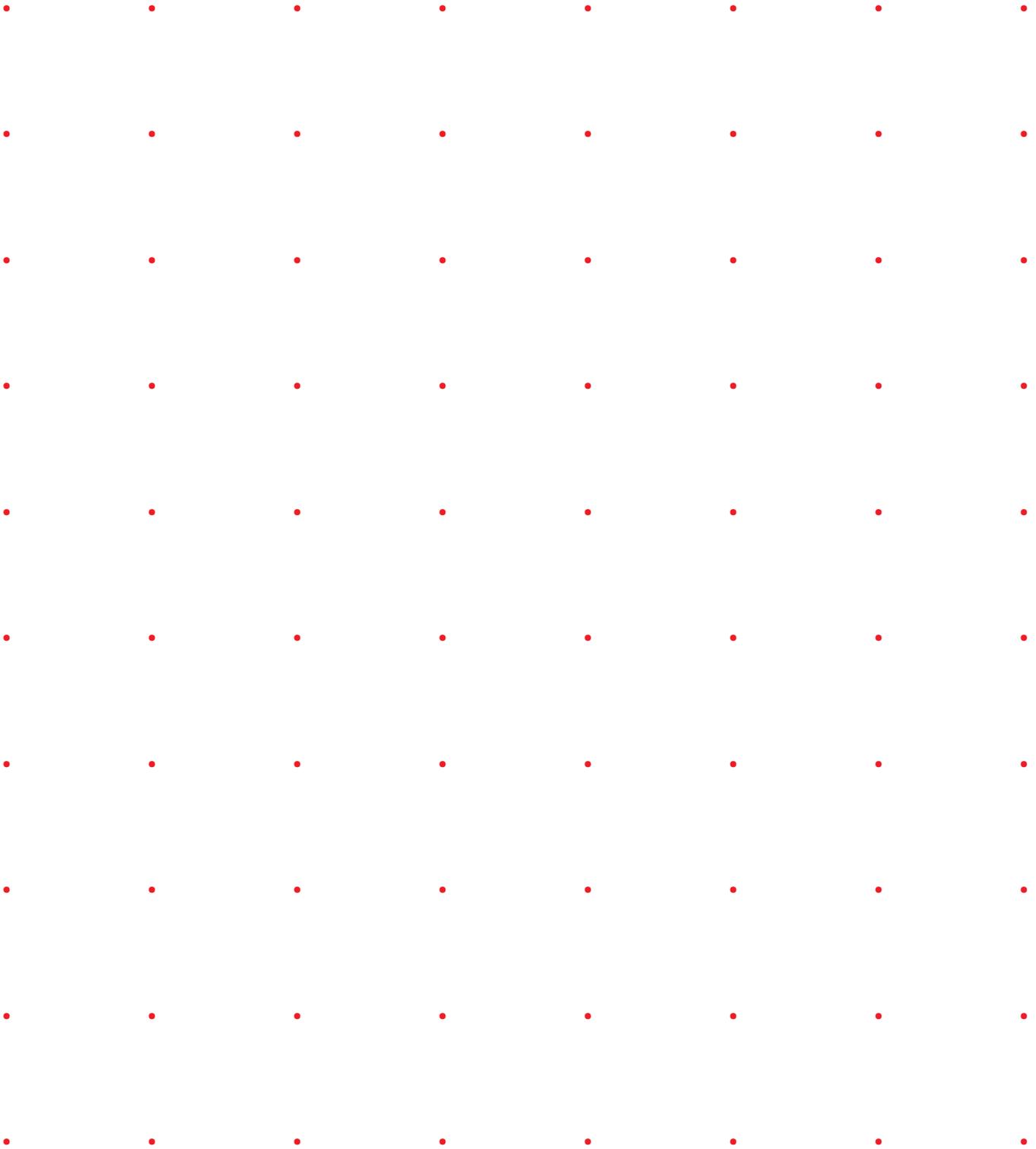


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I. System Overview

The Siplast SA Vapor Retarder is a self-adhesive vapor retarder sheet used in single and multi-ply roof systems. Siplast SA Vapor Retarder consists of a self-adhesive blend that is laminated to a tri-laminate woven polyethylene film top surface. The back of the sheets is lined with a split, silicone-treated polyolefin release film. Siplast Siplast SA Vapor Retarder is intended for use as a vapor retarder in insulated Siplast Roof Systems. Vapor retarders are generally used to prevent moisture from the building's interior from moving into the roof system. Vapor retarders are also used to help address moisture issues in structural concrete decks.

Features and Benefits:

- **Self-Sealing:** Designed to be self-sealing.
- **Primer-Free Application:** The use of a primer prior to installation is generally not required (See *Primer Application* section).
- **Extended Exposure:** Can be left exposed during construction for a maximum period of 180 days when properly applied.
- **Versatile:** The composition allows for application beneath materials such as perimeter metal components.



II. Storage and Handling

Preconstruction Meeting

Schedule a preconstruction meeting prior to commencement of work to discuss means and methods of protecting the waterproofing membrane during construction. The meeting should be attended by the specifier or design professional, an authorized Siplast representative, the waterproofing contractor, and any applicable subcontractors.

Storage

Store Siplast SA Vapor Retarder rolls on end on a clean, flat surface. Store rolls in a heated area to ensure they are between 50°F - 100°F (10°C - 37.7°C) at the time of installation. Ensure that the rolls are not dropped on their ends or edges, are not stored in a leaning position, and are not double-stacked. Deformation resulting from these actions will make proper installation difficult. Store all material in a dry place and out of direct exposure to the elements in such a manner as to ensure that it remains dry prior to and during installation.

Refer to product packaging and the [Safety Data Sheet\(SDS\)](#) for specific information on the safe handling of this product.

III. Installation Materials, Tools, and Equipment

Substrate Preparation

- Application rollers for primers (if needed; see *Primer Application* section).
- 50:50 acetic acid/water solution or citrus-based cleaner (for applications over metal decks).

Vapor Retarder Application

- Shop broom or aluminum rake.
- Steel roller.
- Light-gauge sheet metal support plate (Minimum 6" wide x 58" long for applications over metal decks).
- Parasol FlexSeal Caulk Grade Sealant.

IV. Application Considerations

Weather Restrictions

Do not apply Siplast SA Vapor Retarder and related materials during precipitation, if there is a threat of precipitation during installation, or if condensation is present on the substrate. Do not apply Siplast SA Vapor Retarder in ambient temperatures below 32°F (0°C) or above 100°F (38°C).

Standing Water

Do not apply/expose the Siplast SA Vapor Retarder in areas that maintain standing water following a period of rainfall. Proper drainage should be incorporated to prevent ponding water issues.

Exposure

The Siplast SA Vapor Retarder may be left exposed for a maximum period of 180 days when applied in accordance with Siplast specifications and details. If the Siplast SA Vapor Retarder is being exposed, considerations must be made for foot traffic, weather, drainage, and other variables that may affect the Siplast SA Vapor Retarder. The Siplast SA Vapor Retarder must be evaluated for any damage and properly cleaned prior to the installation of the insulation system/roofing assembly. In the event that the Siplast SA Vapor Retarder remains exposed in excess of 180 days or significant surface damage occurs, the authorized Siplast Technical Representative may call for remedial repair or replacement.

Wrinkles and Fishmouths

During the application of materials, all wrinkles and fishmouths should be corrected immediately by slicing, re-adhering the loose material, and patching. Materials used to patch should be cut off the end of the roll. The patch should extend a minimum of 3 inches in each direction beyond the affected area.

General Substrate Considerations

Follow the guidelines from the most current edition of the [Siplast Technical Guide](#) for structural roof deck considerations. All surfaces to receive application of the Siplast SA Vapor Retarder should be clean, smooth, dry, frost-free, and free of loose materials or contaminants.

Acceptable Substrates and Substrate Preparation

Siplast SA Vapor Retarder is intended only to be used in conjunction with the following substrates:

- Structural concrete
- Wood & plywood decks
- Cement roof boards
- Factory-primed gypsum-fiber roof boards
- Metal roof decks (Clean with a 50:50 acetic acid/water solution or citrus-based cleaner; rinse thoroughly and allow the substrate to properly dry prior to application of material).

Substrates other than those indicated above must be approved in advance by the Siplast Technical Department. Ensure to limit foot traffic over the completed application.

Primer Application

Priming is typically not required. Siplast TA-119 Primer or Siplast PVC Quick Spray Adhesive may be used to enhance adhesion in temperatures below 50°F (10°C), as appropriate for weather conditions and installation practices.

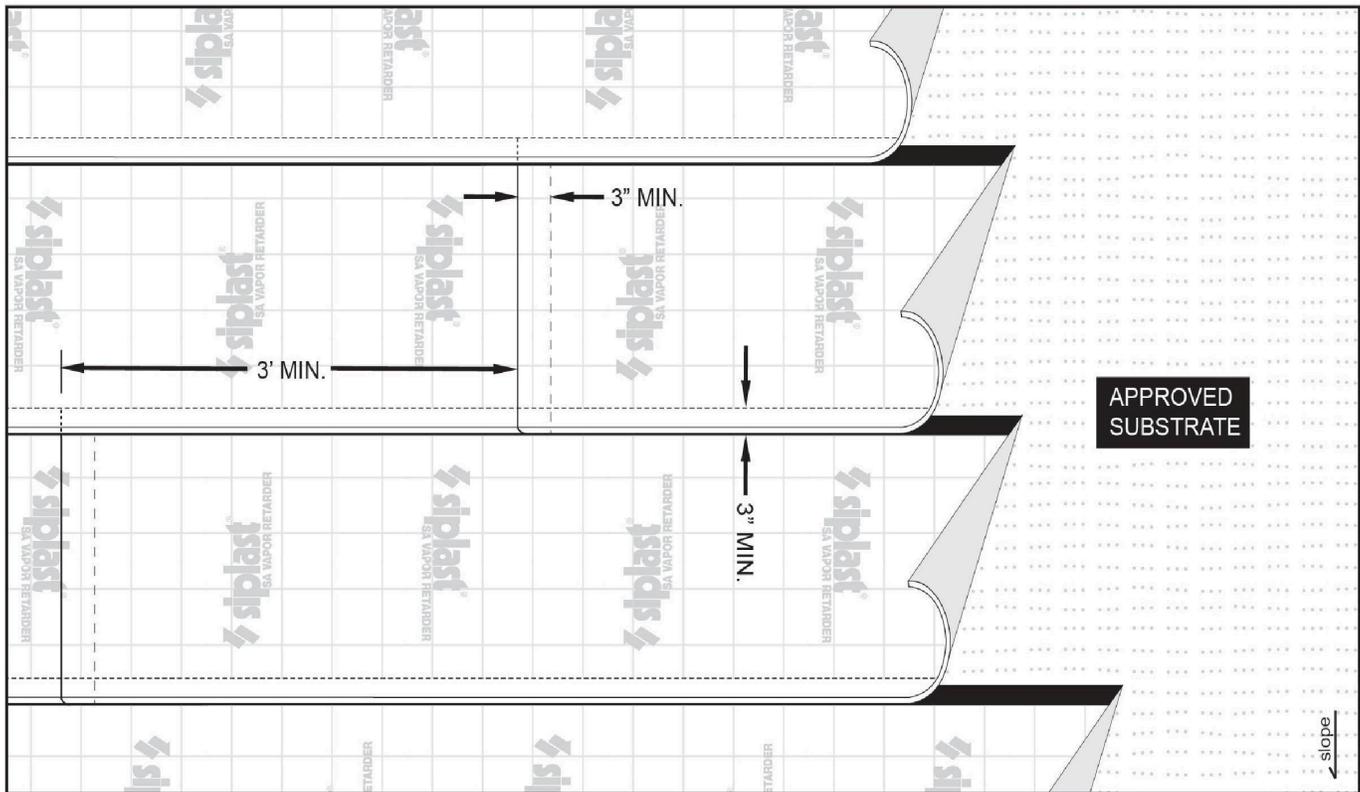
Note: Asphaltic primers are not compatible with Siplast SA Vapor Retarder.

Compatible Adhesives for Field of Roof Insulation Application

Adhering PMMA liquid-applied systems, roof membrane plies, or insulation in hot asphalt, Cold Adhesive, or by torch application over the Siplast SA Vapor Retarder is NOT acceptable. Insulation may only be adhered directly to the Siplast SA Vapor Retarder surface using an approved low-rise foam adhesive. Siplast-approved insulation adhesives acceptable for insulation securement over Siplast SA Vapor Retarder are as follows:

- Parafast Insulation Adhesive
- Parafast Adhesive T
- Para-Stik Insulation Adhesive
- Parafast PG-1 LRF Adhesive
- Parafast PG-1 EF LRF Canister
- Parafast 1-Step LRF Cartridge

V. Application - Solid, Monolithic Substrates

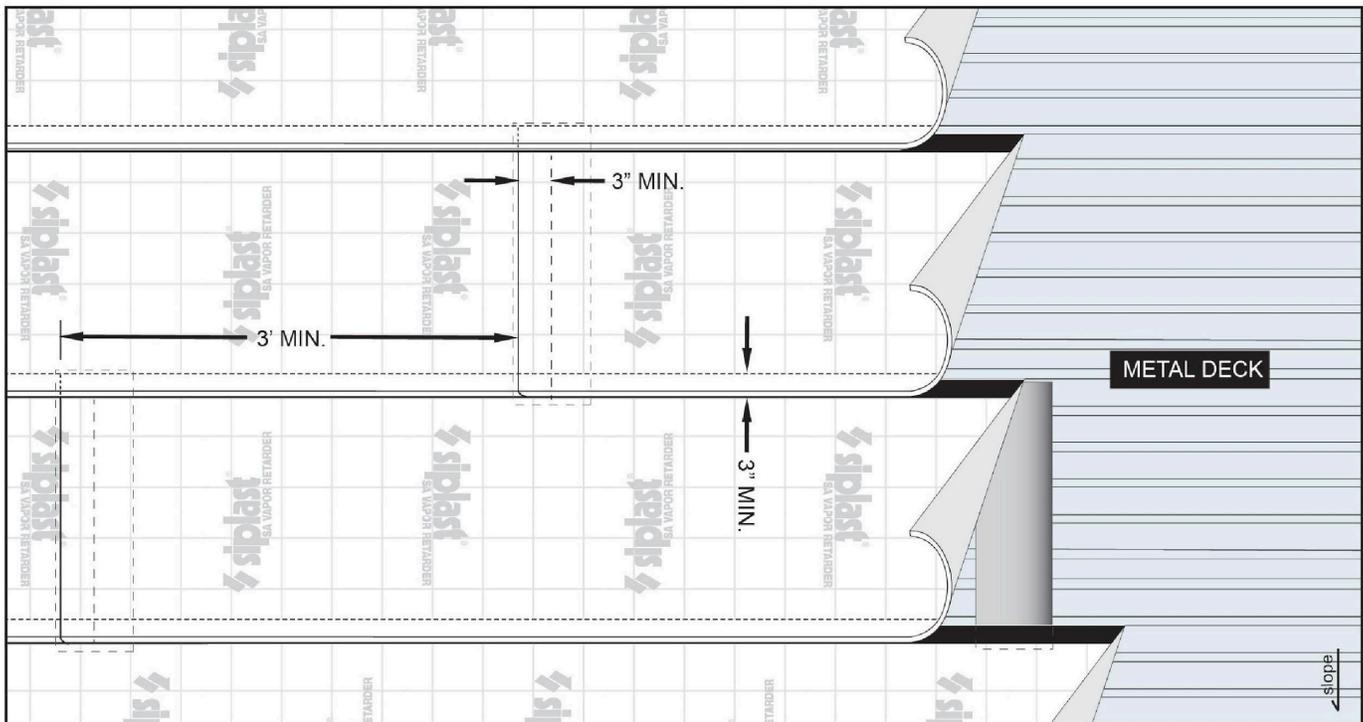


1. Starting at the low point on the roof, unroll the Siplast SA Vapor Retarder over the prepared substrate and align the material with the correct placement along the roof perimeter, lapping all side and end laps a minimum of 3 inches. Offset the end laps a minimum of 3 feet. The materials must lay flat, without wrinkles or fishmouths.
2. While maintaining placement of the material, carefully remove the split release film from the sides, keeping the film low and at an angle to the length of the sheet.
3. Apply pressure on the sheet to ensure full contact with the substrate using a shop broom or aluminum rake. Using a steel roller, apply pressure to ensure a seal at all sides and T-laps.
4. Apply a bead of Parasolo FlexSeal Caulk Grade Sealant to the top of all finished T laps and feather into place.
5. Extend the Siplast SA Vapor Retarder vertically at curbs or walls a minimum of 3 inches or to the designated finished height of the insulation system.

Penetrations

Seal where the Siplast SA Vapor Retarder meets the penetration with Parasolo FlexSeal Caulk Grade Sealant.

VI. Application – Metal Decks



1. Starting at the low point on the roof, unroll the Siplast SA Vapor Retarder over the metal deck and align the material with the correct placement along the roof perimeter, lapping the side and end laps a minimum of 3 inches. Offset the end laps a minimum of 3 feet. The materials must lay flat, without wrinkles or fishmouths.
2. Apply the material so that the selvage of each sheet is fully supported by the flange of the metal deck.
3. End laps require a light-gauge sheet metal support plate to bolster the overlapping of adjoining materials in the same course. The metal plate should have sufficient gauge to span the flutes of the metal deck without deflecting and be a minimum of 6 inches wide x 58 inches long.
4. While maintaining placement of the material, carefully remove the split release film from the sides, keeping the film low and at an angle to the length of the sheet.
5. Apply pressure on the sheet to ensure full contact with the substrate using a shop broom or aluminum rake. Using a steel roller, apply pressure to ensure a seal at all sides and T-laps.
6. Apply a bead of Parasolo Flexseal Caulk Grade Sealant to the top of all finished T laps and feather into place.
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With you every step of the way

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