

Parasolo™ PVC KEE Roof Systems

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High performance, synthetic options from your trusted partner in commercial roofing.



Parasolo PVC KEE brings the Siplast service level and commitment to projects appropriate for single-ply applications.

A History of Innovation & Service

Siplast's approach to commercial roofing has always been to provide owners and specifiers with lasting solutions based on high-performance products of consistent quality. We focus on quality design, application, service, and products appropriate for the specific requirements of each Siplast project.

Since the 1960s, our roofing and waterproofing systems have protected the most mission-critical facilities with redundant, robust membrane systems and highly engineered liquid-applied

membranes. In that time frame, Siplast has introduced numerous innovations to meet the changing needs of building owners. In that spirit, we are proud to offer a synthetic membrane solution backed by the same service and commitment the industry expects from Siplast: Parasolo KEE.

Parasolo KEE is a premium PVC membrane that is appropriate in situations where a synthetic membrane meets the needs of the building owner. Warehouses, office space, retail facilities, and roofs with little anticipated traffic can be well-suited for a single ply solution. With Parasolo KEE, owners of such facilities can enjoy the same partnership approach to roofing that has been the Siplast standard for decades.

Crews skilled in the application of Parasolo systems can create aesthetically pleasing finished roofs.



Quality & the Science of Resistance

Parasolo KEE is subjected to a stringent series of quality control tests to ensure that the product meets the specific criteria important to its performance. Parasolo KEE incorporates Elvaloy®¹ copolymer with various formulation advancements to achieve superior results for weathering, algae, chemical resistance, and the EMMAQUA test – a natural accelerated sunlight exposure test that includes a soak-freeze-thaw test.

Parasolo PVC KEE is formulated to resist:

- **Weathering.** In testing, 60-mil Parasolo PVC KEE membranes far exceed industry standards using ASTM G154, the standard for Accelerated Weathering (UV resistance).
- **Chemicals.** PVC KEE is widely regarded as the most chemical-resistant of the synthetic roof membrane formulations. PVC KEE is resistant to a broad range of chemicals.¹
- **Algae.** Parasolo KEE's Elvaloy®² plasticizers help mitigate the growth of algae, a primary cause of reduced or diminished reflectivity.

The Parasolo KEE Product Range & True Thickness

Parasolo KEE is offered in 50, 60, and 80-mil sheets, in both smooth and fleece-backed versions. Unlike other PVC products, these Parasolo mil designations represent True Thickness. ASTM standards allow single ply

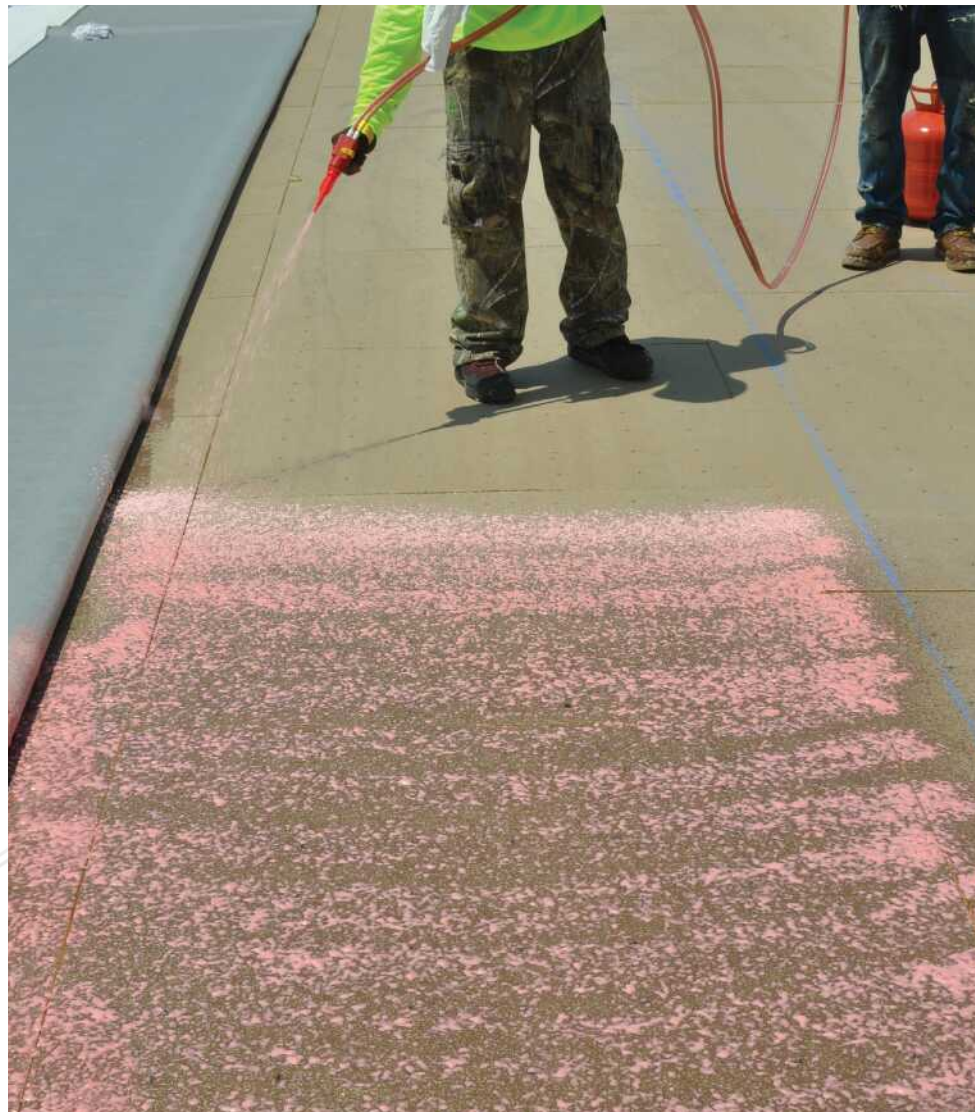
membranes to have a thickness variation of 10% which, for example, can result in manufacturers offering a 60-mil product that is only 54 mils thick. True Thickness means 60-mil Parasolo KEE is a minimum 60 mils thick, ensuring the customer gets what they specify.



True Thickness

Consistent with Siplast's philosophy of transparency when it comes to product quality, the thickness of Parasolo KEE sheets matches their designations – not the 10% variation allowed by ASTM standards.

Parafast Adhesive T low-rise foam adhesive for fleece-back systems offers an efficient application option.



1. For information regarding the chemical resistance of Parasolo KEE, contact Siplast Technical Services.

2. Elvaloy® is a registered trademark of DuPont™

System Options to Meet Project Needs

Parasolo KEE can be installed in a variety of configurations, including multi-layer hybrid systems or traditional single ply applications, depending on the requirements of each project. Each system can provide a variety of core benefits including:

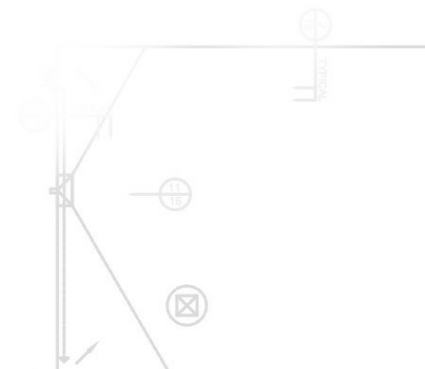
- Solar reflectance
- Cold weather installation
- VOC compliance
- Weathering, chemical, and algae resistance
- Low initial cost

In addition, each system offers the specific benefits outlined in the chart below.

	Single-Ply Systems				
	Hybrid Multi-Ply	RhinoBond ^{®1}	Mechanically-Attached	Adhered, Solvent-Based Adhesive	Adhered, Low-Rise Foam Adhesive
	Parasolo KEE/ Paradiene 20	Single-Ply Parasolo PVC KEE	Parasolo PVC KEE	Parasolo PVC KEE, Smooth-Back	Parasolo PVC KEE, Fleece-Back
Weathering Resistance	•••	•••	•••	•••	•••
Chemical Resistance	•••	•••	•••	•••	•••
Algae Resistance	••	••	••	••	••
Solar Reflectance	•••	•••	•••	•••	•••
VOC Compliance	••	•••	•••	••	••
Cold Weather Application	••	••	•••	•	•
Smooth Appearance	••	•	•	•••	•••
Higher Wind Uplift Resistance	•••	•••	••	•••	•••
Low Odor	•	•••	•••	•••	••
Application Efficiency (Small crews & fast installation)	•	•••	•••	•	••
Multi-Ply Redundancy	•••	NA	NA	NA	NA
Phased Construction	•••	•	•	•	•
Lower Initial Cost than Traditional Multi-Ply & Liquid-Applied Systems	•	•••	•••	••	•••

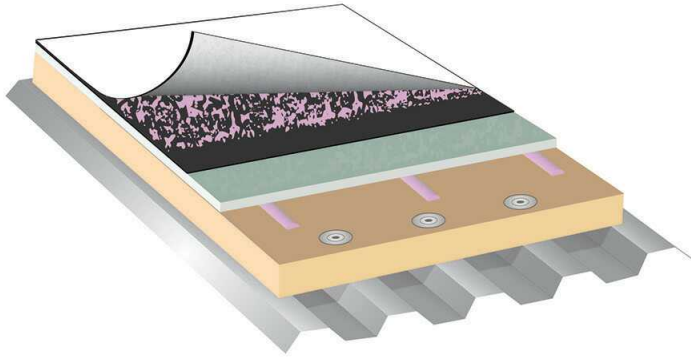
1. RhinoBond[®] is a registered trademark of OMG.

Mechanically-attached systems offer a low-odor alternative.



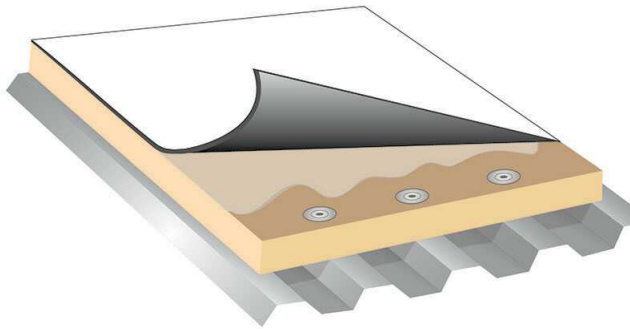
Parasolo KEE/SBS-Modified Bitumen Hybrid Systems

For projects requiring the assurance of a second ply, Parasolo KEE can be installed in a multi-ply hybrid application. The resulting roof membrane combines the elongation and recovery of Siplast's time proven SBS-modified bitumen Paradiene 20 base ply with the high performance formulation of a Parasolo KEE synthetic membrane. The elastomeric Paradiene 20 base ply absorbs roof stresses while the Parasolo KEE cap shields the base from the elements and mechanical abuse, and offers a bright white surface.

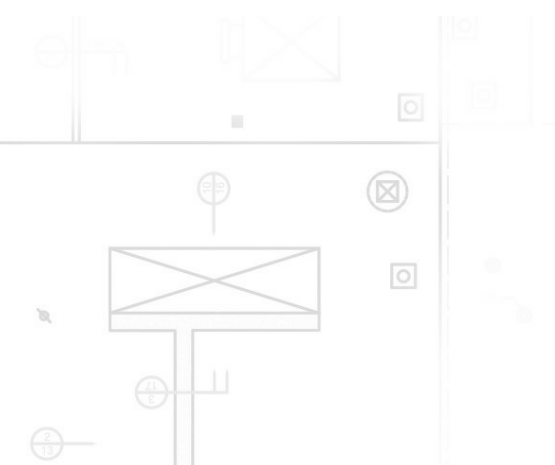


Parasolo KEE Single-Ply Systems

With fewer seams than traditional multi-ply systems, prefabricated detail accessories, and a highly reflective bright white surface, Parasolo KEE Single-Ply Systems provide a solution for building owners who might not need the "belt and suspenders" approach of a multi-ply system, but still require a reliable roof backed by Siplast service and expertise. Additionally, Parasolo KEE Single-Ply applications typically require smaller crews and can result in faster overall installation times.



Parasolo PVC Bonding Adhesive, used with smooth-back membranes, offers higher wind uplift resistance in addition to core Parasolo KEE benefits.



Application of Parasolo on parapet walls creates a clean finished look.



Parapro 123 PMMA Liquid-Applied Flashing is a high-performance, durable flashing option.

PMMA Flashing

Siplast is a leader in liquid-applied details. That tradition continues with the incorporation of Parapro Flashing Membranes in Parasolo KEE systems. Parasolo KEE systems can benefit

from the advantages of PMMA, including efficient application, durability, and fast cure. Parapro 123 Flashing Membrane can be used for flashing of both common and more challenging, difficult details.



Prefabricated Parasolo KEE accessories are an efficient way to address detail conditions.

Accessories

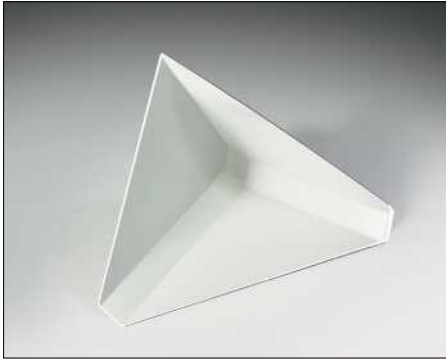
Siplast has always respected the importance of having roofing accessories engineered to work with our membranes. Prefabricated Parasolo KEE accessories are an efficient way to address detail conditions. The following components are available:



Fluted Corner – For use in flashing outside corners of base and curb flashings, designed for ease of welding in tight areas.



Conical Pipe Boot – For use in flashing round penetrations.



Inside Corner – Molded to accommodate inside corners of base and curb flashings.



Preformed Split Pipe Boot – Manufactured with a split opening to efficiently wrap most pipes and conduits.



T-Joint Cover Patch – Conforming seal for use over T-joints.



Square Tube Wrap – Split with overlap to wrap around square or rectangular tubing.




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Consistent heat welding and rolling seams helps ensure a successful application.



Cover Photo:

This completed Parasolo PVC KEE adhered system offers a bright white finish and a clean aesthetic.