GreenCircle Certified, LLC

certifies that an independent, third-party evaluation has been conducted for:

Siplast

Cedar City, UT

Parasolo® PVC Membrane

This product meets all the necessary qualifications to be certified for the following claims:

	Industry	Siplast	% Reduction
Global Warming Potential (kg CO_2 eq per 1m^2)	7.26	6.94	4%
Ozone Depletion Potential (kg CFC-11 eq per 1m^2)	9.70×10^{-7}	1.87×10^{-8}	98%
Acidification Potential for Air Emissions (kg SO_2 eq per 1m^2)	4.12×10^{-2}	1.70×10^{-2}	58%
Eutrophication Potential (kg N eq per 1m^2)	1.17×10^{-1}	2.29×10^{-3}	98%
Smog Formation Potential (kg O_3 eq per 1m^2)	5.05×10^{-1}	2.99×10^{-1}	40%

Siplast's Life Cycle Assessment (LCA) Optimized Certification was completed on November 1, 2026. The LCA Optimized Certification analysis compared Siplast's 2023 Environmental Product Declaration (EPD) for their Parasolo® PVC Membrane completed by Sustainable Solutions Corporation to an industry-wide EPD completed in 2025 by Athena.

The Industry EPD and the Siplast EPD were prepared utilizing NSF International, Product Category Rule for Environmental Product Declarations: PCR for Single Ply Roofing Membranes [6]. ISO 21930:2017 serves as the core PCR [3] and NSF International: Product Category Rule for Environmental Product Declarations for Single Ply Roofing Membranes, Version 2, Issued 2019 Valid through July 17, 2024, respectively. The Industry EPD is Cradle to Gate with Options (A1-A5, C1-C4, D). The Siplast EPD is Cradle to Gate with Options (A1-A5, C1-C4). The Industry EPD Program Operator was ASTM International. The Siplast EPD Program Operator was NSF.

The Industry and Siplast EPDs were prepared using SimaPro v9 and LCAfE 10.6, respectively. The Industry EPD utilized SimaPro v9. The Siplast EPD utilized Sphera database & USLCI v2.0. The impact categories listed above, and subsequent optimization information comes from life cycle product stages A1-A5 and C1-C4 using the TRACI 2.1 methodology.

The analysis of the EPDs and documentation of material and operational changes to optimize were third-party certified by GreenCircle. GreenCircle verified that the LCA and EPD were conducted per applicable standards (ISO 14040/14044, ISO 21930, EN 15084), and that proper documentation and evidence was provided by Siplast to verify the product optimization compared to Industry EPD.

These products are certified to meet the requirements of the LEED v4.1 Materials and Resources Building Product Disclosure and Optimization – Environmental Product Declaration Option 2 credit. The Parasolo® PVC Membrane product contributes one product or 100% of material cost for the LEED v4.1 credit. The reduction in embodied carbon and other life cycle impact categories can be attributed to manufacturing energy conservation measures.

To review Siplast's 2023 EPD for their Parasolo® PVC Membraneplease click HERE.

Certification Number: 26-0691

Certification Period: November 1, 2026 - November 7, 2028

Compliant with GreenCircle Product Optimization: GreenCircle Life Cycle Assessment Optimized Certification Standard Audit Plan 7.2024, GreenCircle Certification Scheme, and USGBC's LEED Rating System

Sara Risley, Certification Officer
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PRODUCT CERTIFICATION BODY