GreenCircle Certified, LLC

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

Siplast

Cedar City, UT; Gainesville, TX; New Columbia, PA; Statesboro, GA

Paratherm® NH Polyiso Insulation

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)	7.38	4.85	34%
Ozone Depletion Potential (kg CFC-11 eq per 1m^2)	4.68×10^{-6}	9.04×10^{-8}	98%
Acidification Potential for Air Emissions (kg SO_2 eq per 1m^2)	2.40×10^{-2}	1.92×10^{-2}	19%
Eutrophication Potential (kg N eq per 1m^2)	1.83×10^{-2}	3.34×10^{-3}	81%
Smog Formation Potential (kg O_3 eq per 1m^2)	5.70×10^{-1}	2.03×10^{-1}	64%

Siplast's Life Cycle Assessment (LCA) Optimized Certification was completed on November 1, 2026. The LCA Optimized Certification analysis compared Siplast's 2024 Environmental Product Declaration (EPD) for their Paratherm® NH Polyiso Insulation completed by Sustainable Solutions Corporation to an industry-wide EPD completed in 2026 by Vertima Inc.

The Industry EPD and the Siplast EPD were prepared utilizing PCR Part B: Building Envelope Thermal Insulation EPD Requirements (UL 10010-1), v.4.0 and its core PCR Part A: Life Cycle Assessment Calculation Rules and Report Requirements (UL 10010), v.4.0 UL Environment November 2025 to November 2030 (validity period of PCR Part B) March 28, 2022 to March 28, 2027 (validity period of PCR Part A) and UL Part B v2.0: Building Envelope Thermal Insulation EPD Requirements Valid through April 10, 2023. (PCR extended through Feb, 2024), respectively. The Industry EPD is cradle to grave. The Siplast EPD is cradle to grave. Both EPD's Program Operators were NSF.

The Industry and Siplast EPDs were prepared using OpenLCA v2.03 and LCAfE 10.6, respectively. The Industry EPD utilized Ecoinvent 3.9.1. 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. The Industry EPD utilized the TRACI 2.2 methodology. The Siplast EPD utilized 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 Paratherm® NH Polyiso Insulation product contributes two products or 200% 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 2024 EPD for their Paratherm® NH Polyiso Insulation, please click HERE.

Certification Number: 26-0690

Certification Period: November 1, 2026 - February 5, 2029

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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