

# GreenCircle Certified, LLC

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



## GAF

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

### EnergyGuard™ HD Polyiso Cover Board & EnergyGuard™ HD Barrier Polyiso Cover Board

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

	2020	2023	% Reduction
Global Warming Potential (kg CO <sub>2</sub> eq per 1 m <sup>2</sup> )	1.07 x 10 <sup>1</sup>	8.88	16%
Ozone Depletion Potential (kg CFC-11 eq per 1 m <sup>2</sup> )	7.64 x 10 <sup>-7</sup>	1.32 x 10 <sup>-7</sup>	82%
Eutrophication Potential (kg N eq per 1 m <sup>2</sup> )	2.86 x 10 <sup>-2</sup>	1.74 x 10 <sup>-3</sup>	93%
Smog Formation Potential (kg O <sub>3</sub> eq per 1 m <sup>2</sup> )	5.66 x 10 <sup>-1</sup>	3.82 x 10 <sup>-1</sup>	32%

GAF's Life Cycle Assessment (LCA) Optimized Certification was completed on February 1, 2025. The LCA Optimized Certification analysis compared an industry-wide Environmental Product Declaration (EPD) completed in 2020 by Long Trail Sustainability to GAF's 2023 EPD for their EnergyGuard™ HD Polyiso CoverBoard & EnergyGuard™ HD Barrier Polyiso CoverBoard completed by Sustainable Solutions Corporation.

The 2020 EPD and the 2023 EPD were prepared utilizing Product Category Rules for Building-Related Products and Services Part A: Life Cycle Assessment Calculation Rules and Report Requirements (UL 10010, Version 3.2), and Product Category Rule (PCR) Guidance for Building-Related Products and Services Part B: Building Thermal Insulation EPD Requirements (UL10010-1, Version 2.0), and ISO 21930: 201, and UL Part B v2.0: Building Envelope Thermal Insulation EPD Requirements, respectively. The 2020 EPD and the 2023 EPD are both cradle to grave. Both the 2020 and 2023 EPD's Program Operators were NSF International.

The 2020 and 2023 LCAs were prepared using SimaPro (Version 9.0.0.35) and LCA for Experts v. 10.6 GAF EPD Generator Tool Version 1.0, respectively. The impact categories listed above, and subsequent optimization information comes from life cycle product stages A1 through A3 using the TRACI 2.1 methodology for both the 2020 and 2023 EPD.

The analysis of the EPDs and documentation of material and operational changes to optimize the product stage (A1-A3) were third-party certified by GreenCircle. GreenCircle verified that the LCA and EPD were conducted per applicable standards (ISO 14040/14044, ISO 21930), and that proper documentation and evidence was provided by GAF to verify the product optimization compared to 2020 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 EnergyGuard™ HD Polyiso CoverBoard & EnergyGuard™ HD Barrier Polyiso CoverBoard product contributes 1.5 products or 150% 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 GAF's 2023 EPD for their EnergyGuard™ HD Polyiso CoverBoard & EnergyGuard™ HD Barrier Polyiso CoverBoard please click [HERE](#).

*Certification Number: 24-5830*

*Certification Period: February 1, 2025 - December 8, 2028*

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

Sara Risley, Certification Officer  
GreenCircle Certified, LLC  
155 Railroad Plaza, Royersford, PA 19468

