

Mannington[®] COMMERCIAL



Products: Homogenous Resilient Sheet: Assurance III, BioSpec SR, BioSpec MD

Manufacturer: Mannington Commercial

Current EPD: Homogenous Resilient Sheet: Assurance III, BioSpec SR, BioSpec MD, Color Anchor Prism, BioSpec Armor [EPD-IES-0019887](#) at EPD International. Valid: 7/14/2025 – 7/14/2030.

Reference EPD: RCFI Homogenous Sheet Vinyl Flooring [SCS-EPD-10145](#) at SCS Global. Valid: 5/9/2024 – 5/8/2029.

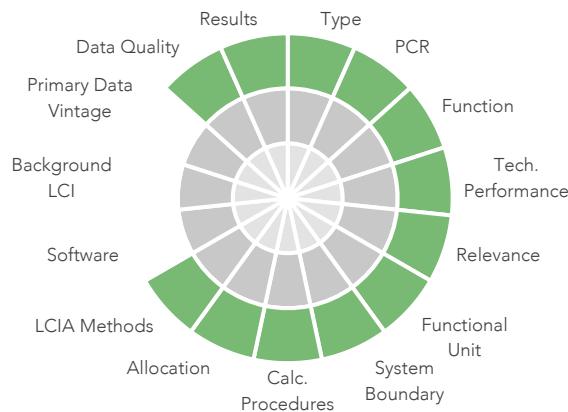
Comparison Type: Current EPD vs Industry Average EPD

Scope of Comparison: Cradle-to-Gate (A1-A3)

Period of Validity: 12/19/2025 – 7/14/2030

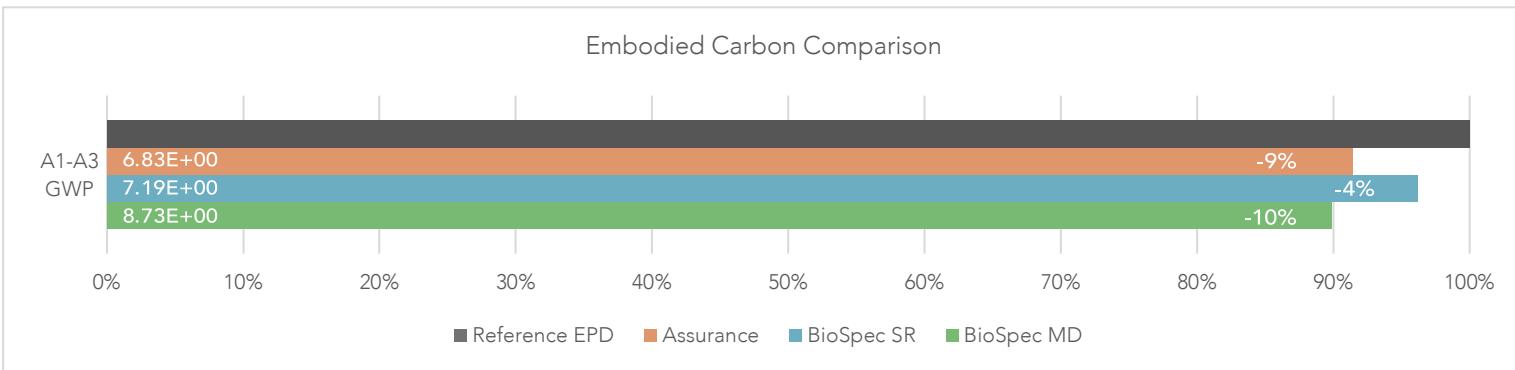
LEED Credit Achieved	<input checked="" type="checkbox"/> LEED v4.1: Option 2, less than -10% GWP <input type="checkbox"/> LEED v4.1: Option 2, greater than -10% GWP <input type="checkbox"/> LEED v4.1: Option 2, greater than -20% GWP	<input type="checkbox"/> LEED v5: BPSP w/ -20% GWP <input type="checkbox"/> LEED v5: BPSP w/ -40% GWP
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COMPARISON SUMMARY



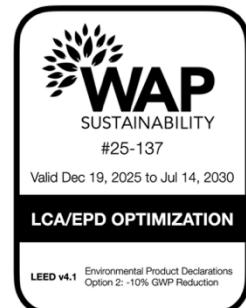
The current EPD was compared to the reference EPD using 15 indicators. A single score of 0 (Not Comparable) or multiple scores of 1 (Problematic for Comparison) would result in the current and reference EPDs not being able to be compared.

For this comparison, two product-specific EPDs, covering the same product, were compared.



Impact Reduction Sources

Compared to the reference EPD, the current EPD shows a -4 to -10% reduction in A1-A3 global warming potential (GWP). This reduction is attributable to improvements made to the product's formulation and manufacturing efficiencies while maintaining the same high-performance characteristics.



Impacts for 1m² of Homogenous Resilient Sheet

TRACI 2.1 Impact Category*	Module	Reference EPD	Assurance II	% change from Reference EPD	BioSpec SR	% change from Reference EPD	BioSpec MD	% change from Reference EPD
GWP	A1-A3	7.48	6.83	-9%	7.19	-4%	6.72	-10%
	A4-A5	6.61E-01	2.72E+00		2.75E+00		2.71E+00	
	B1-B4	2.88E+00	1.73E+01		1.79E+01		1.71E+01	
	C1-C4	1.87E-01	0.00E+00		0.00E+00		0.00E+00	
ODP	A1-A3	5.96E-06	2.01E-09	-100%	2.01E-09	-100%	2.01E-09	-100%
	A4-A5	6.61E-01	2.72E+00		2.75E+00		2.71E+00	
	B1-B4	2.88E+00	1.73E+01		1.79E+01		1.71E+01	
	C1-C4	1.87E-01	0.00E+00		0.00E+00		0.00E+00	
AP	A1-A3	2.44E-02	1.97E-02	-19%	2.24E-02	-8%	1.31E-02	-46%
	A4-A5	6.61E-01	2.72E+00		2.75E+00		2.71E+00	
	B1-B4	2.88E+00	1.73E+01		1.79E+01		1.71E+01	
	C1-C4	1.87E-01	0.00E+00		0.00E+00		0.00E+00	
EP	A1-A3	2.17E-02	1.06E-03	-95%	1.11E-03	-95%	1.04E-03	-95%
	A4-A5	6.61E-01	2.72E+00		2.75E+00		2.71E+00	
	B1-B4	2.88E+00	1.73E+01		1.79E+01		1.71E+01	
	C1-C4	1.87E-01	0.00E+00		0.00E+00		0.00E+00	
SFP	A1-A3	3.84E-01	2.19E-01	-43%	2.31E-01	-40%	2.15E-01	-44%
	A4-A5	6.61E-01	2.72E+00		2.75E+00		2.71E+00	
	B1-B4	2.88E+00	1.73E+01		1.79E+01		1.71E+01	
	C1-C4	1.87E-01	0.00E+00		0.00E+00		0.00E+00	
ADP _f	A1-A3	1.95E+01	1.98E+01	1%	2.08E+01	7%	1.97E+01	1%
	A4-A5	6.61E-01	2.72E+00		2.75E+00		2.71E+00	
	B1-B4	2.88E+00	1.73E+01		1.79E+01		1.71E+01	
	C1-C4	1.87E-01	0.00E+00		0.00E+00		0.00E+00	

*GWP_e = Global Warming Potential excl biogenic carbon [kg CO₂ eq], ODP = Ozone Depletion Potential [kg CFC 11-eq], AP = Acidification Potential [kg SO₂ eq], EP = Eutrophication Potential [kg N eq], SFP = Smog Formation Potential [kg O₃ eq], ADP = Abiotic Depletion Potential – Fossil Fuels [MJ surplus energy]

COMPARABILITY ASSESSMENT



Per ISO 14025, "Type III environmental declarations are intended to allow a purchaser or user to compare the environmental performance of products on a life cycle basis. Therefore, comparability of Type III environmental declarations is critical. The information provided for this comparison shall be transparent in order to allow the purchaser or user to understand the limitations of comparability inherent in the Type III environmental declarations." The table below showcases the criteria utilized to determine if the two EPDs are comparable.

Criteria	Score	Description
Product Category		
Product Type	3	The product types are equivalent.
Product Category Rule	3	The same product category rule was followed for both assessments.
Function	3	The function is the same for both products.
Technical Performance	3	It is assumed the technical performance is equivalent between the two products.
Relevant Comparison	3	The products are equivalent in both the reference and current EPD.
Scope		
Functional Unit	3	The functional units for both products are equivalent at 1m ² .
System Boundary	3	To minimize assumption bias in this comparison, only A1-A3 is considered for both products.
Calculation Procedures	3	Same procedures, assumptions, and methodologies were used in the reference and current EPD.
Allocation	3	The same allocation rules were followed.
LCIA Method	3	The same LCIA method was used and the same indicators reported.
Data and Results		
Software	2	The reference EPD uses OpenLCA v1.11 software and the current EPD uses LCA For Experts 10.9.0.31 (formerly GaBi).
Background LCI Data	2	The reference EPD utilizes the Ecoinvent 3.10 database, while the current EPD uses Sphera Managed LCA Content Database 2024.2.
Primary Data Vintage	2	The reference EPD utilizes industry-wide primary data from 2021-2023, and the current EPD utilizes 2023 primary data.
Data Quality	3	All assumptions are equivalent.
Results	3	Results were presented with the same groupings by LCIA indicator, but different LCIA Methods were reported.

Based on this comparability assessment, the products in question are deemed comparable for the purposes of LEED credit achievement. It is WAP Sustainability's professional opinion that Homogeneous Resilient Sheet (Assurance III, BioSpec SR, and BioSpec MD) from Mannington Commercial meets the following LEED Materials and Resource Credit, Environmental Product Declaration for:

- LEED v4.1, Option 2 criteria: less than -10% GWP Reduction

A handwritten signature in black ink, appearing to read "Matt Van Duinen".

Matt Van Duinen
Sustainability Director
WAP Sustainability Consulting, LLC