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**Reynobond® Life-Cycle Assessment and Embodied Carbon Optimization Report – LEED v4.1**

This bulletin introduces the Life Cycle Assessment (LCA) Optimization Report which builds upon Reynobond®'s third party-verified Environmental Product Declaration (EPD) by identifying and documenting improvements in environmental performance.

The Optimization Report provides additional sustainability documentation for architects, specifiers, contractors, and building owners evaluating products under green-building programs, including applicable LEED v4 material disclosures and optimization requirements. It should be reviewed together with the current Reynobond® EPD for complete product-specific environmental impact information.

With this document, Reynobond® 4mm FR can now contribute toward LEED v4.1 MR Credit: Building Product Disclosure and Optimization – Environmental Product Declarations, Option 2. The intent is to provide architects evidence for a stronger reason to specify Reynonbond® on LEED projects.

Important note: This document can help with projects where the architect is pursuing up to two points under the overall EPD credit for LEED, but it cannot independently guarantee any points. Please make sure that you are using the work "contribute" when referring to LEED points.

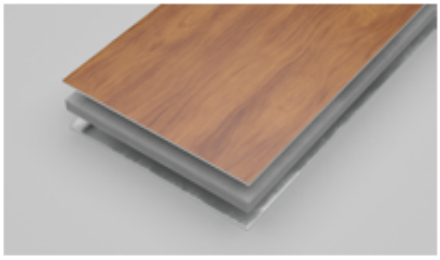
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# EPD Optimization Assessment

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**Product**: Reynobond® Composite Material FR 4mm

**Manufacturer:** Hoover Architectural Solutions, LLC

**Current EPD:** Reynobond® Composite Material FR 4mm, EPD-IES-0023112:002 at EPD International. Version: 06/19/2026. Valid: 05/23/2025 – 05/23/2030.

**Reference EPD:** Metal Composite Material Industry-Average EPD from Metal Construction Association (MCA), 47892890484.102.1 at UL Solutions. Valid: 04/01/2020 – 04/01/2025.

**Comparison Type:** Current EPD vs Industry-Average EPD

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

**Period of Validity:** 07/10/2026 – 08/23/2030

| LEED Credit Achieved | | |
|---|---|---|
| | ☐ LEED v4.1: Option 2, less than -10% GWP | ☐ LEED v5: BPSP w/ -20% GWP |
| | ☒ LEED v4.1: Option 2, greater than -10% GWP | ☐ LEED v5: BPSP w/ -40% GWP |
| | ☐ LEED v4.1: Option 2, greater than -20% GWP | |

## Comparison Summary



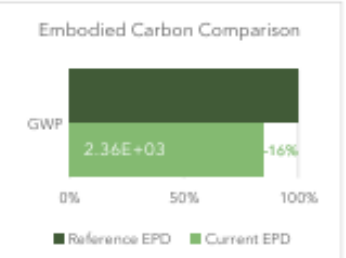

The current EPD was compared to the reference EPD using 15 indicators. A single score of 0 (Not Comparable) or multiple scores of 1 (Problematic for Comparison) would result in the current and reference EPDs not being able to be compared.

For this comparison, a product-specific EPD and an industry-average EPD, covering the same product, were compared. Hoover Architectural Solutions, formerly Arconic Architectural Products, participated in the industry-average EPD.

**Impacts for 1m² of Reynobond® Composite Material FR 4mm**

| TRACI 2.1 Impact Category* | Reference EPD | | Current EPD | | A1-A3 % change from Reference EPD |
|---|---|---|---|---|---|
| | A1-A3 | C1-C4 | A1-A3 | C1-C4 | |
| GWP$_{100}$ | 2801 | not reported | 2360 | 17 | -16% |
| ODP | 1.10E-07 | not reported | 6.70E-06 | 4.23E-15 | 5991% |
| AP | 1.17E+01 | not reported | 1.07E+01 | 4.57E-04 | -8% |
| EP | 3.60E-01 | not reported | 2.94E-01 | 7.31E-04 | -18% |
| POCP | 1.29E+02 | not reported | 1.14E+02 | 8.34E-03 | -11% |
| ADP$_f$ | 5.71E+03 | not reported | 2.86E+04 | 1.74E-01 | 402% |

*GWP$_{100}$ = Global Warming Potential, 100 years [kg $CO_2$ eq], ODP = Ozone Depletion Potential [kg CFC 11-eq], AP = Acidification Potential [kg $SO_2$ eq], EP = Eutrophication Potential [kg N eq], POCP = Photochemical Ozone Creation Potential [kg $O_3$ eq], ADP$_f$ = Abiotic Depletion Potential – Fossil Fuels [MJ surplus energy]




### Impact Reduction Sources

Compared to the reference EPD, the current EPD shows a -16% reduction in GWP. This difference is likely due to the use of manufacturer-specific primary data, which more accurately represents the product's actual production processes, including supplier-specific recycled content of the aluminum, whereas the reference EPD is based on weighted average industry data from multiple manufacturers.

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# COMPARABILITY ASSESSMENT

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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 | 2 | The same product category rule was followed for both assessments, however, the current EPD uses Part B version 3.2, and the reference EPD uses Part B version 2.0. |
| Function | 3 | The function is the same for both products. |
| Technical Performance | 3 | 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 100 $m^2$. |
| System Boundary | 3 | To minimize assumption bias in this comparison, only A1-A3 is considered for both products. |
| Calculation Procedures | 2 | Calculation procedures, assumptions, and methodologies may differ between the reference and current EPD, as the industry-wide EPD represents a weighted average of data from participating manufacturers rather than a single, product-specific dataset. |
| 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 same software, LCA For Experts (formerly GaBi), was used for the reference and current EPD, however the current EPD uses version 10.9, and the reference EPD uses version 9. |
| Background LCI Data | 2 | The same background LCI data, MLC Database (formerly GaBi Database), was used for the reference and current EPD, however the current EPD uses version 2025.2, and the reference EPD uses version 2019. |
| Primary Data Vintage | 1 | The current EPD utilizes 2022 primary data, and the reference EPD utilizes 2017 primary data. |
| Data Quality | 3 | All assumptions are equivalent. |
| Results | 3 | Results were presented with the same groupings by LCIA indicator. |

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 Reynobond® Composite Material FR 4mm from Hoover Architectural Solutions meets the following LEED Materials and Resource Credit, Environmental Product Declaration for:

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



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