

# EPD Transparency Brief

**Product name:** FREB-9-CHA  
**Description:** Engineered wood flooring, European Oak,  
width=220mm, thickness=14mm

Allwood Group, LLC  


**Declared Product:** This Environmental Product Declaration (EPD) covers flooring products produced by Allwood Group, LLC. Declared unit: m2

**Declaration Owner:** Allwood Group, LLC  
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**Program Operator:** P3 Optima  
537, McLeod Street  
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**Product Category Rule:** Product Category Rule (PCR) Guidance for Building-Related Products and Services, Part B: Flooring EPD Requirements  
PCR Program Operator: UL Environment  
PCR review was conducted by: Jack Geibig, Chair, Ecoform, [jgeibig@ecoform.com](mailto:jgeibig@ecoform.com) – Thaddeus Owen, [hiper4m@gmail.com](mailto:hiper4m@gmail.com). – Thomas Gloria, PhD, Industrial Ecology Consultants, [t.gloria@industrial-ecology.com](mailto:t.gloria@industrial-ecology.com).

**Independent Verifier:** This declaration was independently verified in accordance with ISO 14025:2006. The UL Environment “Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report,” v3.2 (September 2018), based on ISO 21930:2017 and CEN Norm EN 15804 (2012), serves as the core PCR, with additional considerations from the USGBC/UL Environment Part A Enhancement (2017).  
Independent verification of the declaration, according to ISO 14025: 2006  
Internal ; External X  
Third Party Verifier  
Geoffrey Guest, Certified 3rd Party Verifier under the P3Optima Program ([www.P3Optima.com](http://www.P3Optima.com)), CSA Group ([www.csaregistries.ca](http://www.csaregistries.ca))

**Date of Issue:** 10 February 2022

**Period of Validity:** 5 years; valid until 10 February 2027

**EPD Number:** AG01-001

## System boundary

The following figure depicts the cradle-to-grave system boundary considered in this study:

### A1 - A3 Product Stage



**A1** Raw material supply  
**A2** Transport  
**A3** Manufacturing

### A4 - A5 Installation Process Stage



**A4** Transport to Site  
**A5** Installation Process

### B1 - B7 Use Stage



**B1** Use  
**B2** Maintenance  
**B3** Repair  
**B4** Replacement  
**B5** Refurbishment  
**B6** Operational energy use  
**B7** Operational water use

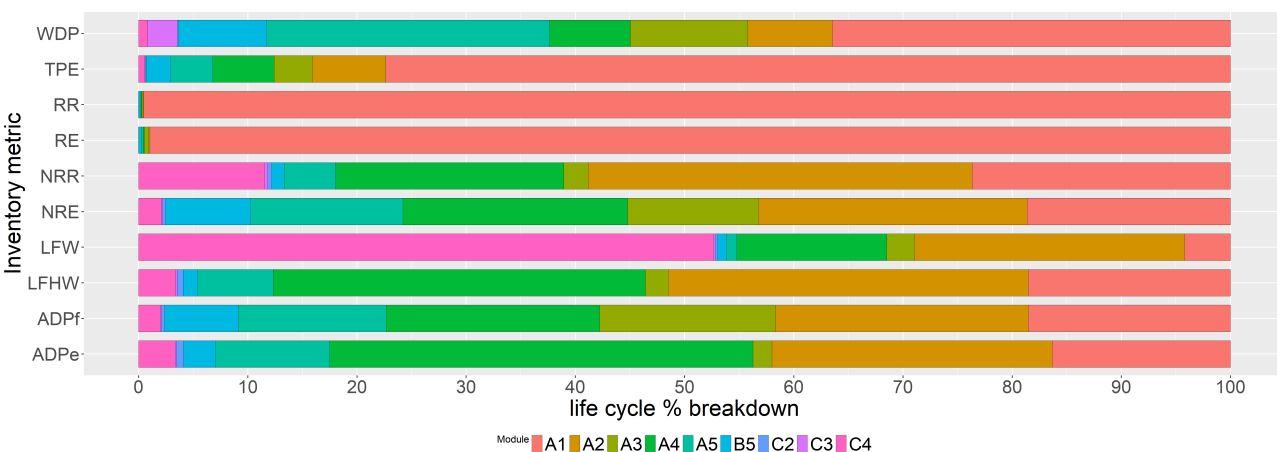
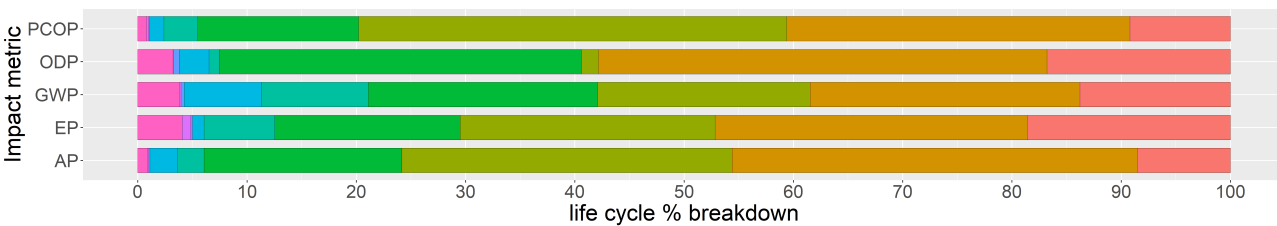
### C1 - C4 End of Life Stage



**C1** De-installation/Demolition  
**C2** Transport  
**C3** Waste processing  
**C4** Disposal of waste

Acronym	Life Cycle Impact Metrics	Unit	Value
PCOP	Photochemical oxidation potential	kg O3eq	0.138
ODP	Ozone layer depletion potential	kg CFC-11.	2.25e-06
GWP	Global warming potential	kg CO2-Eq	18.3
EP	Eutrophication potential	kg N	0.0114
AP	Acidification potential	kg SO2eq	0.279

Acronym	Life Cycle Inventory Metrics	Unit	Value
WDP	Water depletion potential	m3 water-	0.092
TPE	Total primary energy	MJ-Eq	1080
RR	Renewable resources	m3	0.0376
RE	Renewable energy	MJ-Eq	778
NRR	Non-renewable resources	kg	12.4
NRE	Non-renewable energy	MJ-Eq	293
LFW	Landfill bulk waste	kg waste	13.6
LFHW	Landfill hazardous waste	kg waste	0.000406
ADPe	Abiotic depletion-fossil fuel	kg Sbeq	0.000594
ADPf	Abiotic depletion-elements	kg Sbeq	0.142



Module A1 A2 A3 A4 A5 B1 B2 B3 B4 B5 B6 B7 C1 C2 C3 C4

