

EPD Transparency Brief

Product name: FREB-7-TTN
Description: Engineered wood flooring, European Oak,
width=189mm, 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
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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 – Thaddeus Owen, hiper4m@gmail.com. – Thomas Gloria, PhD, Industrial Ecology Consultants, 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), CSA Group (www.csaregistries.ca)

Date of Issue: 10 February 2022

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

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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

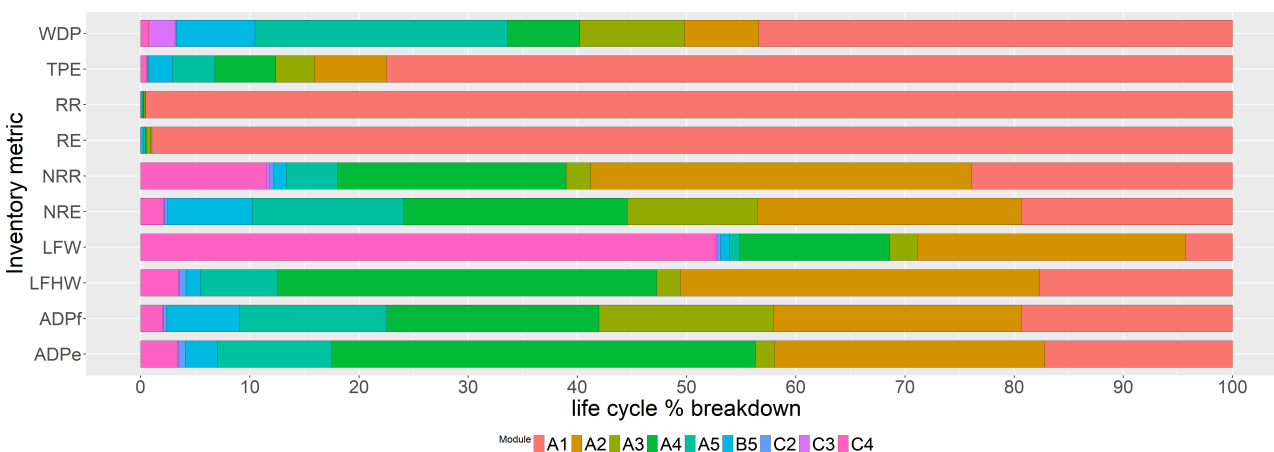
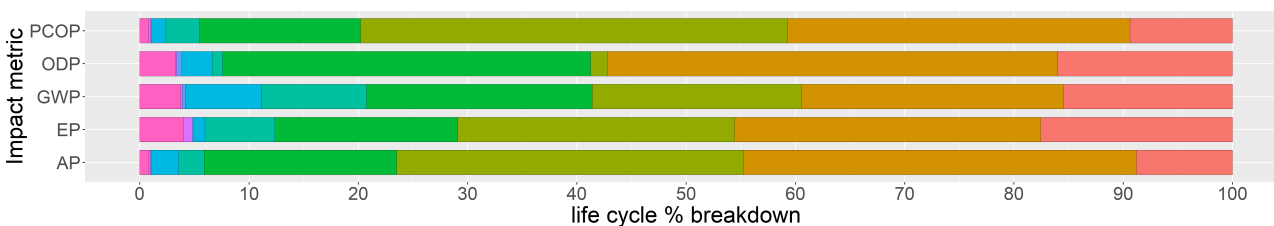
C1 - C4 End of Life Stage



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 | 0.139 |
| ODP | Ozone layer depletion potential | kg CFC-11. | 2.22e-06 |
| GWP | Global warming potential | kg CO2-Eq | 18.6 |
| EP | Eutrophication potential | kg N | 0.0116 |
| AP | Acidification potential | kg SO2eq | 0.287 |

| Acronym | Life Cycle Inventory Metrics | Unit | Value |
|---------|-------------------------------|------------|----------|
| WDP | Water depletion potential | m3 water-. | 0.103 |
| TPE | Total primary energy | MJ-Eq | 1080 |
| RR | Renewable resources | m3 | 0.0376 |
| RE | Renewable energy | MJ-Eq | 778 |
| NRR | Non-renewable resources | kg | 12.3 |
| NRE | Non-renewable energy | MJ-Eq | 294 |
| LFW | Landfill bulk waste | kg waste | 13.6 |
| LFHW | Landfill hazardous waste | kg waste | 0.000399 |
| ADPe | Abiotic depletion-fossil fuel | kg Sbeq | 0.000594 |
| ADPf | Abiotic depletion-elements | kg Sbeq | 0.143 |



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

