INSTITUT BAUEN UND UMWELT

CO_2 FOOTPRINT

PRODUCT CARBON FOOTPRINT (PCF) ACCORDING TO ISO 14067

Product Carbon Footprint
Based on verified IBU-EPD

The Product Carbon Footprint shows the emissions of greenhouse gases, reflected in CO_2 equivalents.
The data is based on verified results of the EPD according to EN 15804+A2 and information according to ISO 14025.

MANUFACTURER: **HASSLACHER Holding GmbH**
Feistritz 1
9751 Sachsenburg
Austria

PRODUCT:

GLUED LAMINATED TIMBER, GLUED SOLID TIMBER, BLOCK GLUED GLULAM, SPECIAL COMPONENTS

PRODUCT DESCRIPTION:

Glued laminated timber (this includes glued solid timber, block glued glulam and special components throughout this document) from HASSLACHER Holding GmbH is a solid, rod-shaped timber element consisting of at least two dried softwood lamellas bonded parallel to the fibres. The glued laminated timber is manufactured according to EN 14080.

The existing joinery and surface finishing options integrated in the production plants, allow a high degree of prefabrication and thus a shortened construction time.

Production is subject to in-house and external monitoring in accordance with EN 14080.

APPLICATION:

Glued laminated timber is used in all structural areas of modern timber construction, i.e. from engineering-based residential and industrial construction to bridge building. Glued laminated timber, with the exception of glued solid timber (only service classes 1 and 2), can be used in service classes 1 to 3 according to EN 1995-1-1.

The use of preventive chemical wood preservation according to DIN 68800-3 is unusual and only permissible if structural wood preservation according to DIN 68800-2 is not sufficient on its own. If, in exceptional cases, a preventive chemical wood preservative is used, this must be regulated by a general building authority approval or approval according to the Biocidal Products Regulation.

146 kg*

The GWP over the declared life cycle is 146.431 kg CO_2e

Product Carbon Footprint:
146.431 kg CO_2e

Declared unit:
1 m^3

Mass of declared product:
470 kg

Declaration number:
EPD-HAS-20210171-IBD1-EN

Independent verifier of EPD according to ISO 14025:
Matthias Klingler

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10.09.2021–02.08.2026

BY WAY OF ILLUSTRATION:

1 kg CO_2e corresponds to approx. one car journey of 4 km (car with gasoline**)

* Rounded

** Source: ÖKOBAUDAT PKW (Benzin) EURO 4 2024, UUID: 6e406918-b951-427c-b2fc-c3d1d018db9a

EPD Link:
https://epd-online.com/PublishedEpd/Download/14960

ADDITIONAL INFORMATION AND NOTES

Product Carbon Footprint
Based on verified IBU-EPD

EPD – Environmental Product Declaration:

EPDs depict the environmental impact of products over their life cycle. They are based on the life cycle assessment method.
EPDs are independently checked (verified) by independent third parties in accordance with the EN 15804+A2 and ISO 14025 standards.

Modules:

The PCF is calculated over the declared life cycle and divided into modules (A1-C4). The modules describe the individual phases in the life cycle of the product:

- Module A, manufacturing and installation phase
- Module B, use phase
- Module C, disposal phase

GWP – Global Warming Potential in carbon dioxide equivalent (CO_2e):

CO_2e is the universal unit of measurement for expressing the global warming potential (GWP) of each of the six greenhouse gases, expressed as the GWP of one unit of carbon dioxide. It is used to assess the release (or avoidance of release) of different greenhouse gases on a common basis.

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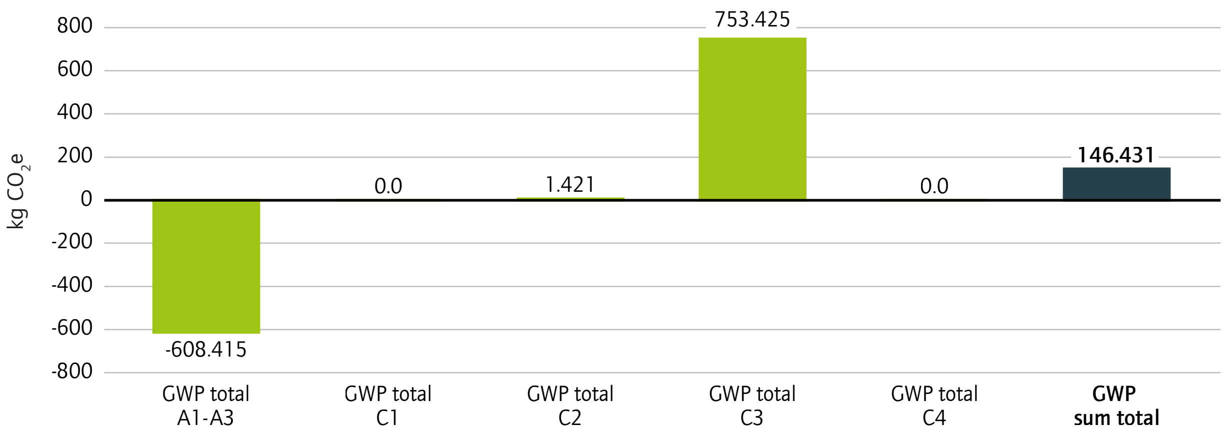
The declaration refers to a declared unit of 1 m³



ADDITIONAL INFORMATION:

DECLARED MODULES: **A1-A3, C1, C2, C3, C4, D**		
A1-A3:	For cradle to gate, the PCF is:	-608.415 kg CO_2e
	Biogenic carbon content:	204.000 kg C
	Biogenic carbon content of the packaging:	0.0 kg C
A1-C4:	For the entire life cycle (cradle to grave), the CO_2 footprint is:	146.431 kg CO_2e
D:	Credits and debits outside the system boundary:	-409.858 kg CO_2e

FURTHER INFORMATION:

- In this PCF, the figures for the GWP are summarized to enable simplified communication of these values. In the underlying EPD, 31 mandatory and 6 voluntary indicators are shown, divided into the life cycle phases. There is no hierarchy for the importance of an indicator.
- The underlying EPD was created in accordance with EN 15804+A2.
- Negative values can represent stored carbon (e.g. in wood products) and are to be regarded as temporarily stored carbon, which is released back into the environment at the end of the product life cycle.
- Note: 1 kg of biogenic carbon is equivalent to $^{44}/_{12}$ kg CO_2.

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