

The **Product Carbon Footprint** shows the emissions of greenhouse gases, reflected in CO<sub>2</sub> equivalents.  
The data is based on verified results of the EPD according to EN 15804+A2 and information according to ISO 14025.



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### PRODUCT:

## BUTT WELDED FITTING

### PRODUCT DESCRIPTION:

This EPD includes butt-welded fittings/elbows in carbon and low-alloy steel.  
This EPD specifically excludes stainless steel products; reducers, tees and caps  
The steel types included in this average product are as follows:  
S235, P235 GH TC1 + TC2, P265 GH TC1 + TC2, 16 Mo3, 13CrMo4-5, 10CrMo9-10, P215NL, P355N, P355NH, P355NL1  
Butt-welded fittings cover different types of fittings in various shapes and sizes: pipe bends, crosses, welded elbows, saddle elbows, concentric reducers, and eccentric reducers.

### APPLICATION:

Butt-welded fittings are used to connect different pipes with each other and can be used for transporting oils, gas or water (excluding drinking water) in a closed system.  
Butt-welded fittings have no threads, which means that they can only be permanently connected by means of a weld.



### BY WAY OF ILLUSTRATION:

1 kg CO<sub>2</sub>e corresponds to approx. one car journey of 4 km (car with gasoline\*\*)



Product Carbon Footprint:  
1866.760 kg CO<sub>2</sub>e

Declared unit:  
1 metric tonne

Mass of declared product:  
1000 kg

Declaration number:  
EPD-LID-20240547-IBC1-EN

Independent verifier of EPD according to ISO 14025:  
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\* Rounded

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



EPD Link:

<https://epd-online.com/PublishedEpd/Download?id=21953>



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**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.

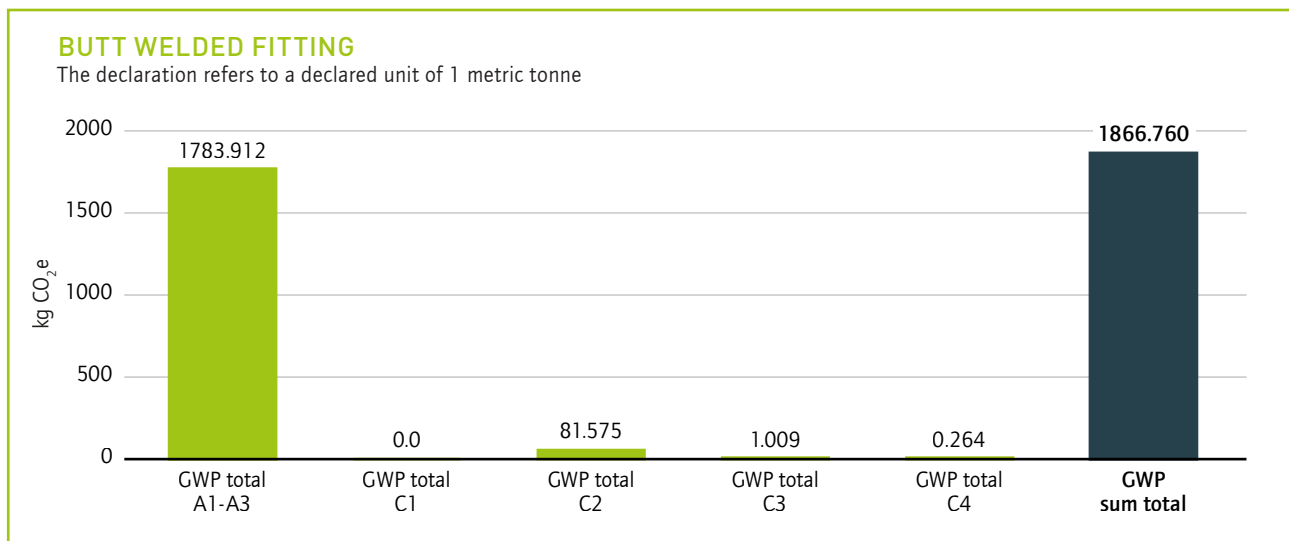
**Modules:**

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<sub>2</sub>e):**

CO<sub>2</sub>e 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.



**ADDITIONAL INFORMATION:**

DECLARED MODULES:  
A1-A3, C1, C2, C3, C4, D

A1-A3:	For cradle to gate, the PCF is:	1783.912 kg CO <sub>2</sub> e
	Biogenic carbon content:	0.0 kg C
	Biogenic carbon content of the packaging:	14.880 kg C
A1-C4:	For the entire life cycle (cradle to grave), the CO <sub>2</sub> footprint is:	1866.760 kg CO <sub>2</sub> e
D:	Credits and debits outside the system boundary:	-492.820 kg CO <sub>2</sub> e

**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<sub>2</sub>.