

PRODUCT CARBON FOOTPRINT



GWP

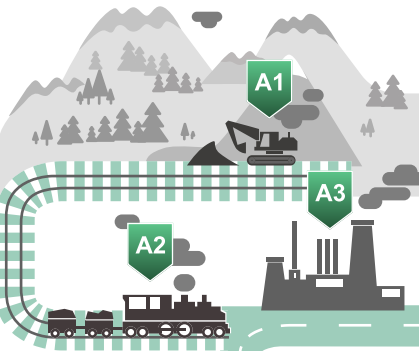
This quantifies a product's contribution towards global warming. This is referred to as carbon footprint, global warming potential and also embodied carbon.

STANDARDS

These are ISO 14021 self-declared results, calculated according to ISO 14040 and ISO 14044 standards. The results follow ISO 21930/EN 15804+A2.

SCOPE OF ASSESSMENT

The results have a cradle-to-gate scope, comprising raw materials extraction and supply (A1), transport (A2) and manufacturing (A3).



CARBON FOOTPRINT

Declared unit	1 m3
Mass of declared unit (kg)	960
GWP-fossil, A1-A3 (kg CO ₂ e)	7,42E+01
GWP-total, A1-A3 (kg CO ₂ e)	6,75E+01

MANUFACTURER AND PRODUCT

Manufacturer	Polycare Research Technology GmbH
Address	Glasmacherstraße 11, 98528 Suhl/OT Gehlbach
Website	https://polycare.de/en
Product name	SEMBLA®
Product reference	-
Place of production	Glasmacherstraße 11, 98528 Suhl/OT
Period for data	15. April -31. May 2024

PRODUCT DESCRIPTION

The circular, geopolymers-based masonry blocks SEMBLA® enable the quick and easy construction of load-bearing and non-load-bearing walls, as well as their non-destructive dismantling at the end of a buildings life cycle. SEMBLA® blocks can then be reused in new construction projects. The wall system is particularly aimed at holistically circular buildings and is therefore particularly suitable for

SYSTEM BOUNDARY

Product stage			Construction		Use stage							End of life stage				Beyond the system boundary		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	D	D
X	X	X						Modules not declared										
Raw materials	Transport to site	Manufacturing	Transport	Construction	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy	Operational water	Deconstruction	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling