

hanit® EPD – Summary

Environmental Product Declaration

During the year 2025 the Hedgehog B.V. did an independent LCA – Life Cycle Assessment based on the international standards ISO 14044 and EN 15804. Its results were verified and certified by EPD International, Sweden, and serve as the basis for our hanit Environmental Product Declaration.

A key result is the GWP – **G**lobal **W**arming **P**otential, shown in the table below. The comparison shows the outstanding performance of our material (0.197 kg CO_{2eq} / kg hanit prefabricated component). Using this standard measurement, the carbon footprint for each hanit product can be easily calculated by multiplying it by the respective product weight. As a standard measurement it is shown in kg CO₂ per kg of material used (B). For easier interpretation column (E) shows the calculation of the total GWP of an exemplary product – a square profile 300 cm × 10 cm × 10 cm, based on an assumed standard density (C) and a corresponding product weight (D*).

GWP impact (kg CO _{2eq} / kg) for alternative materials, for production only (cradle-to-gate, A1-A3)				
A	B	C	D	E
Material	Greenhousepotential GWP total (kg CO _{2eq} / kg)	Density (kg / m ³)	Weight Example product (kg)	Greenhouse effect Example product (kg CO ₂)
hanit®	0,197	930	27,90	5,50
Steel, e.g. No. S235	2,411	7.850	27,50	84,07
HDPE, extruded (virgin plastic)	3,359	965	28,94	103,95
Hardwood	0,806	673	20,19	16,27
Softwood	0,907	510	15,30	13,88
Standard concrete	0,617	2.400	72,00	44,42
Extruded aluminium	14,055	2.700	6,35	89,25
Hard PVC, extruded (virgin plastic)	3,116	1.400	42,00	135,40

(*) Solid profiles assumed for hanit, hard wood, soft wood, concrete, extruded HDPE and PVC. Hollow profiles with 2 mm wall thickness assumed for steel and aluminium profiles



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