

Environmental Product Declaration summary sheet

Siniat Metal Profiles thickness 0.5mm

Etex Building Performance Limited



Product description

Siniat Metal Profiles are produced with galvanised steel by a cold rolling process. The profiles are used as framing for lightweight building systems such as walls, ceilings and linings. They can present different shapes. This EPD includes Siniat Metal Profiles with gauge thickness 0.5mm (RX) and 0.55mm; both with galvanisation Z140.

Declared/Functional Unit

The functional unit is 1kg of metal profile installed and the results presented on the table 'Key Assessment Results' correspond to this functional unit. Additionally, the 'Scaling Table for Metal Profiles thickness 0.5mm' considers the linear mass (kg/m) and presents Climate change impact (GWP) [A1-A3] by m.

EPD Programme operator	EPD Hub	LCI Database/ Calculation date	OCLCA 2023 + Ecoinvent 3.8
EPD registration no.	HUB-2152	Geographical scope	UK
Validity period	13/10/2024-13/10/2029	Manufacturing location	Etex Building Performance Ltd
Followed standards for LCA/EPD	EN15804+A2:2019 and ISO 14025	Reference year of production date	2023

Key Assessment Results

Unit is kgCO₂-Eq. per 1kg of galvanized steel (kgCO₂-Eq./kg)

CARBON FOOTPRINT	TOTAL GLOBAL WARMING POTENTIAL (GWP) including fossil, biogenic and GWP
Cradle to gate [A1–A3]	2,77 kgCO ₂ -Eq./kg
Upfront carbon* [A1–A3, A4, A5]	3,04 kgCO ₂ -Eq./kg
Embodied carbon* [A1–A3, A4, A5, B1–B5, C1–C4]	3,07 kgCO ₂ -Eq./kg

* Upfront and Embodied carbon are defined in "Whole life carbon assessment for the built environment", 2nd edition, published by the Royal Institution of Chartered Surveyors (RICS). A0 has not considered.

Scaling Table for Metal Profiles thickness 0.5mm

Unit is kgCO₂-Eq per 1m of metal profile (kgCO₂-Eq./m)

Product	CS50/RX	CS60/RX	CS70/RX	CS90/RX	CS146/RX	FS50/RX
Mass (kg/ml)	0,50	0,54	0,58	0,66	0,88	0,20
GWP total [A1-A3] in KgCO ₂ -Eq./m	1,39	1,50	1,61	1,83	2,44	0,55

Product	MFCC50	MFCE26	RD1	RBD3000/RX	UT52/RX	UT72/RX	UT92/RX
Mass (kg/ml)	0,47	0,28	0,37	0,34	0,44	0,53	0,62
GWP total [A1-A3] in KgCO ₂ -Eq./m	1,30	0,78	1,02	0,94	1,22	1,47	1,72

Upfront carbon					Building Maintenance and Use – B								Building End of Life – C			
Product (cradle to gate)			Construction													
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7		C1	C2	C3	C4
Raw Material	RM Transport to Factory	Manufacture products	Transport to site	Construction of the building	Use	Maintenance	Repair	Replacement	Refurbishment	Energy use for Building usage	Water Use for Building usage		Demolishing the building	Haul away waste materials	Recycling	Disposal
Embodied carbon											Embodied carbon					

*For the full EPD, visit: <https://manage.epdhub.com/?epd=HUB-2152>

Please check that this is the current version by visiting the Siniat website. For archived versions please contact technical services.