Hedgehog Company

Self-declared Environmental Claim

Based on a Life Cycle Assessment for 1 m2 of Finish Profiles Prisma Wall and Roof Profiles, 0,63 mm

Issue Date

17-03-2025

According to

NMD Assessment Method v1.2

Owner of Declaration

Finish Profiles

Program Operator

N.a.

Publisher

Finish Profiles

FINISH PROFILES®
nr. 1 in stalen dak- en wandplaten

General information

Company

Manufacturer	Finish Profiles
Product Location	Purmerend
Address	Component 110, 1446 WP Purmerend
E-mail	info@finish-profiles.com
Website	https://finish-profiles.nl/

EPD information

EPD for	Finish Profiles Prisma profiles (0.63 mm thickness)
Project Number	2025-001-01
Date of Issue	17-03-2025
Valid until	17-03-2030 (5 years)
Product Category Rules	EN15804+A2 / NMD Assessment Method v1.2
Declared Unit	1 m^2 of steel profile
Reference Service Life	50 years

The results of other LCA studies and resulting 'Environmental Product Declarations' are only comparable if they comply with the version of the Assessment Method used in this LCA study.

Scope of declaration

Production stage	A1	x	Raw material supply
	A2	x	Transport
	A3	x	Production
Construction stage	A4	x	Transport to site
	A5	x	Construction - installation process
Use stage	B1	x	Use
	B2	x	Maintenance
	B3	x	Repair
	B4	x	Replacement
	B5	x	Refurbishment
End-of-life stage	C1	x	Deconstruction demolition
	C2	x	Transport
	C3	x	Waste processing
	C4	x	Disposal
Benefits and loads beyond the system boundaries	D	x	Reuse - Recovery - Recycling potential

Verification statement of the background LCA

CEN standard EN15804+A2 serves as core PCR. Independent verification of the background LCA report and data, according to EN ISO14040/14044

☐ Internal
☑ External

Third party verifier:

This LCA has been verified in accordance with the NMD Toetsingsprotocol. The Bepalingsmethode Milieuprestatie Bouwwerken version 1.2 was followed as the PCR. The verifier's verification statement can be found in the Appendix.

Product description

The product of this study comprises the Finish Profiles Prisma wall and roof profiles. This EPD is based on the representative environmental profile of the Prisma Felsdak profile. This profile weighs 6,34 kg per square meter and has a thickness of 0,63 mm. The environmental profile of the Prisma Felsdak is representative for all other profiles within the Finish Profiles portfolio listed in the table below. The environmental profile of other products can be calculated by linear scaling based on weights.

This EPD is valid for application as wall and roof profiles.

Profile	Thickness (mm)	Weight (kg)
Prisma 18-988	0,63	6,42
Prisma 18-1064	0,63	5,96
Prisma 20/1090	0,63	5,82
Prisma 35/1000	0,63	6,34
Prisma 35/1035	0,63	6,13
Prisma Felsdak	**0,63**	**6,34**
Prisma Kingstile	0,63	5,92

Figure 1. The felsdak profile.

Declaration of material content of SVHC

No substances of very high concern of authorisation to declare.

Biogenic carbon content

There are no materials containing biogenic carbon in the final product. Timber is used as a packaging material. The biogenic carbon content is declared in the table below.

	Weight (kg)
Biogenic carbon content, product	0
Biogenic carbon content, packaging	0,25

* 1 kg biogenic carbon is equivalent to 44/12 kg of CO_2.

Calculation rules

The method used to quantify the environmental performance of the product in question is the life cycle assessment (LCA) regulated by ISO 14040 and ISO 14044. Process data over the year of 2023 is used to model the product system. Ecoinvent v3.6 and NMD v3.9 are used as background databases.

Production (A1-A3)

The Prisma wall and roof profiles are produced from coated steel sheets. After transport to Finish Profiles, the Finish Profiles Prisma wall and roof profiles undergo further processing before they are ready to be applied in construction projects. The production stage includes the following:

- The provision of resources, additives, and energy;
- Transport of the above items to the production site;
- On-site production processes, including energy;
- Treatment of the production waste;
- Packaging materials

The electricity consumption is modelled as a mix of 61% solar energy generated by self-owned PV solar panels and 39% purchased energy, based on annual energy consumption and self-generated energy. The purchased energy mix consists of 83% natural gas and 17% wind energy. NMD v3.9 references were selected for this. The resulting GWP per kWh of electricity is 0,227 kg CO2-eq.

Construction stage (A4-A5)

Transport to the project is based on a transport distance of 150 km. Installation of the product is performed manually.

Use stage (B1-B5)

No additional material or energy input are required during this phase. This module is therefore declared as 0.

Destruction stage (C1)

No additional material or energy input are required during this phase. This module is therefore declared as 0.

End-of-life stage (C2-C4)

Transport distances are based on transport distances from the NMD Assessment Method v1.2. The standard end-of-life scenario for steel profiles and sheet is applied. The applied scenario considers 1% landfill and 99% recycling.

Loads and benefits outside the system boundaries (D)

The potential loads and benefits for recycling and reuse of materials are included in this EPD.

Environmental impact per declared unit

The LCA results are presented in accordance with the NMD Assessment Method. Set 1 is in accordance with EN15804+A1:2013, and is supplemented with the correct characterization factors as described in the PCR. Set 2, in accordance with EN15804+A2:2019, is an addition to the first set and contains additional environmental impact categories.

Set 1	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	C1	C2	C3	C4	D
ADPE	kg Sb eq	2,50E-02	3,58E-06	7,51E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,10E-06	0,00E+00	5,04E-09	-6,40E-06
ADPF	kg Sb eq	1,35E-01	1,03E-03	4,12E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,15E-04	0,00E+00	6,98E-06	-5,40E-02
GWP	kg CO2 eq	1,99E+01	1,40E-01	6,88E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,29E-02	0,00E+00	5,65E-04	-8,72E+00
ODP	kg CFC-11 eq	9,00E-07	2,48E-08	2,87E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,60E-09	0,00E+00	1,68E-10	-3,08E-07
POCP	kg C2H4 eq	1,43E-02	8,44E-05	4,55E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,59E-05	0,00E+00	5,57E-07	-1,88E-02
AP	kg SO2 eq	6,77E-02	6,15E-04	2,17E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,88E-04	0,00E+00	3,71E-06	-2,94E-02
EP	kg PO4--- eq	1,07E-02	1,21E-04	3,55E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,70E-05	0,00E+00	7,72E-07	-3,51E-03
Toxicity indicator for the Dutch market														
HTP	kg 1,4-DB eq	6,84E+00	5,89E-02	2,22E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,80E-02	0,00E+00	4,95E-04	-4,87E+00
FAETP	kg 1,4-DB eq	2,00E-01	1,72E-03	7,10E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,27E-04	0,00E+00	1,57E-04	2,80E-02
MAETP	kg 1,4-DB eq	3,91E+02	6,19E+00	1,36E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,89E+00	0,00E+00	4,18E-02	-3,30E+00
TETP	kg 1,4-DB eq	3,22E-02	2,08E-04	9,93E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,38E-05	0,00E+00	1,23E-06	3,38E-01
ECI - set 1	Euro	2,08E+00	1,69E-02	6,96E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,17E-03	0,00E+00	1,06E-04	-1,08E+00

ADPE = Abiotic depletion potential for non-fossil resources; **ADPF** = Abiotic depletion potential for fossil resources; **GWP** = Global warming potential; **ODP** = Depletion potential of the stratospheric ozone layer; **POCP** = Formation potential of tropospheric ozone photochemical oxidants; **AP** = Acidification potential of land and water; **EP** = Eutrophication potential; **HTP** = Human toxicity potential; **FAETP** = Freshwater aquatic ecotoxicity potential; **MAETP** = Marine aquatic ecotoxicity potential; **TETP** = Terrestrial ecotoxicity potential; **ECI** = Environmental Costs Indicator

Set 2	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	C1	C2	C3	C4	D
GWP-total	kg CO2 eq	1,96E+01	1,41E-01	1,61E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,32E-02	0,00E+00	5,73E-04	-9,33E+00
GWP-f	kg CO2 eq	2,05E+01	1,41E-01	7,04E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,32E-02	0,00E+00	5,73E-04	-9,34E+00
GWP-b	kg CO2 eq	-9,00E-01	0,00E+00	9,05E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP-luluc	kg CO2 eq	1,20E-02	5,17E-05	3,65E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,58E-05	0,00E+00	1,61E-07	6,81E-03
ODP	kg CFC11 eq	8,70E-07	3,12E-08	2,82E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,54E-09	0,00E+00	2,06E-10	-2,34E-07
AP	mol H+ eq	9,79E-02	8,19E-04	3,13E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,51E-04	0,00E+00	5,00E-06	-3,60E-02
EP-fw	kg P eq	9,21E-04	1,42E-06	2,78E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,36E-07	0,00E+00	7,39E-09	-3,28E-04
EP-m	kg N eq	1,95E-02	2,88E-04	6,74E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,83E-05	0,00E+00	1,85E-06	-6,69E-03
EP-t	mol N eq	2,22E-01	3,18E-03	7,64E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	9,74E-04	0,00E+00	2,04E-05	-7,82E-02
POCP	kg NMVOC eq	6,59E-02	9,08E-04	2,24E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,78E-04	0,00E+00	5,84E-06	-5,29E-02
ADP-mm	kg Sb eq	2,50E-02	3,58E-06	7,51E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,10E-06	0,00E+00	5,04E-09	-6,40E-06
ADP-f	MJ	2,46E+02	2,13E+00	7,54E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,52E-01	0,00E+00	1,54E-02	-6,58E+01
WDP	m3 depriv.	5,80E+00	7,62E-03	1,77E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,33E-03	0,00E+00	7,24E-05	-1,78E+00
PM	disease inc.	1,18E-06	1,27E-08	3,74E-08	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,88E-09	0,00E+00	1,03E-10	-5,39E-07
IR	kBq U-235 eq	9,73E-01	8,92E-03	2,98E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,73E-03	0,00E+00	7,66E-05	1,58E-01
ETP-fw	CTUe	6,52E+02	1,90E+00	1,98E+01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,81E-01	0,00E+00	7,41E-02	-3,12E+02
HTP-c	CTUh	1,14E-07	6,16E-11	3,57E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,89E-11	0,00E+00	7,11E-13	-1,20E-09
HTP-nc	CTUh	3,10E-07	2,08E-09	9,96E-09	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,36E-10	0,00E+00	5,81E-11	1,80E-06
SQP	Pt	8,18E+01	1,85E+00	2,58E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,65E-01	0,00E+00	3,76E-02	-2,05E+01
ECI - set 2	Euro	3,62E+00	2,88E-02	2,29E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,83E-03	0,00E+00	1,77E-04	-1,31E+00

GWP-total = Climate change; **GWP-f** = Climate change - Fossil; **GWP-b** = Climate change - Biogenic; **GWP-luluc** = Climate change - Land use and LU change; **ODP** = Ozone depletion; **AP** = Acidification; **EP-fw** = Eutrophication, freshwater; **EP-m** = Eutrophication, marine; **EP-T** = Eutrophication, terrestrial; **POCP** = Photochemical ozone formation; **ADP-mm** = Resource use, minerals and metals; **ADP-f** = Resource use, fossils; **WDP** = Water use; **PM** = Particulate matter; **IR** = Ionising radiation; **ETP-fw** = Ecotoxicity, freshwater; **HTP-c** = Human toxicity, cancer; **HTP-nc** = Human toxicity, non-cancer; **SQP** = Land use; **ECI** = Environmental Costs Indicator

Resource use														
Parameter	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**C1**	**C2**	**C3**	**C4**	**D**
PERE	MJ	2,02E+01	2,66E-02	8,40E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,16E-03	0,00E+00	8,66E-04	7,71E-01
PERM	MJ	7,69E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	2,78E+01	2,66E-02	8,40E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	8,16E-03	0,00E+00	8,66E-04	7,71E-01
PENRE	MJ	2,55E+02	2,26E+00	7,85E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,92E-01	0,00E+00	1,63E-02	-6,83E+01
PENRM	MJ	1,27E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	2,56E+02	2,26E+00	7,85E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	6,92E-01	0,00E+00	1,63E-02	-6,83E+01
PET	MJ	2,84E+02	2,29E+00	8,69E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,00E-01	0,00E+00	1,72E-02	-6,75E+01
SM	kg	5,60E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	-5,60E-02	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m3	1,84E-01	2,59E-04	5,79E-03	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,94E-05	0,00E+00	1,92E-05	-3,37E-02
Waste flows														
Parameter	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**C1**	**C2**	**C3**	**C4**	**D**
HWD	kg	2,79E+00	5,39E-06	1,16E-04	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,65E-06	0,00E+00	1,89E-08	-1,11E-03
NHWD	kg	2,78E+00	1,35E-01	1,54E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,14E-02	0,00E+00	6,41E-02	-9,11E-01
RWD	kg	4,01E-04	1,40E-05	1,32E-05	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,28E-06	0,00E+00	1,01E-07	5,40E-05
Output flows														
Parameter	**Unit**	**A1-A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**C1**	**C2**	**C3**	**C4**	**D**
CRU	kg	0,00E+00	0,00E+00	2,28E-02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,61E-01	0,00E+00	0,00E+00
MFR	kg	0,00E+00	0,00E+00	1,67E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,59E+00	0,00E+00	0,00E+00
MER	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
EEE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,37E+00	0,00E+00	0,00E+00
EET	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	2,36E+00	0,00E+00	0,00E+00

PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; **PERM** = Use of renewable primary energy resources used as raw materials; **PERT** = Total use of renewable primary energy resources; **PENRE** = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; **PENRM** = Use of non-renewable primary energy resources used as raw materials; **PENRT** = Total use of non-renewable primary energy resources; **PET** = Total Energy; **SM** = Use of secondary material; **RSF** = Use of renewable secondary fuels; **NRSF** = Use of non-renewable secondary fuels; **FW** = Use of net fresh water; **HWD** = Hazardous waste disposed; **NHWD** = Non-hazardous waste disposed; **RWD** = Radioactive waste disposed; **CRU** = Components for re-use; **MFR** = Materials for recycling; **MER** = Materials for energy recovery; **EEE** = Exported energy, electric; **EET** = Exported energy, thermal

Appendix

Finish Profiles Component 110 1446 WP Purmerend

ADVIESLAB VOF

Wolvega, 17-03-2025

Onderwerp: review of LCA Finish Profiles

Dear,

In the period of November 2024- March 2025 I have examined the background report and attachments regarding to LCA wand- en dakplaten Finish Profiles with date: 03-0302925

The report is examined according to the NMD assessment method version 1.2.

Result of the examination:

I hereby confirm that, following detailed examination as independent 3rd party verifier, I have not been able to trace any relevant deviations by the LCA for the product "Prisma and HPS 200" as given in the LCA report "wand- en dakplaten" date 03-03-2025,
Issued for Finish Profiles from the requirements outlined in the corresponding product category regulations based on EN 15804:2019 +A2 and NMD assessment method v1.2.
The company-specific data and calculation have been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity.

Kind regards,
Anne Kees Jeeninga

Geregistreerd-/erkend LCA-deskundige voor:
- *LCA 's conform de NMD Bepalingsmethode (zie ook https://milieudatabase.nl/info/erkende-lca-deskundigen/)*
- *ECO-platform: MRPI en Ecobility Experts*

Volgende pagina's: toetstabel+ verslag

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