ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO 21930

BASIC 2 FÖR FÖRDELNINGSLÅDA
HAGAB INDUSTRI AB

EPD HUB, HUB-1252

Published on 25.03.2024, Last update on 25.03.2024, Valid until 25.03.2029.

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GENERAL INFORMATION

Manufacturer	
Manufacturer	Hagab Industri AB
Address	Industrivägen 5,Taberg
Contact details	info@hagab.com
Website	https://hagab.com/

EPD standards, scope and verification	
Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804+A2:2019 and ISO 14025
PCR	EPD Hub Core PCR version 1.0, 1 Feb 2022 NPCR 030 version 1.1
Sector	Construction product
Category of EPD	Third party verified EPD
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Petter Ydrestrand, HAGAB
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal certification ☑ External verification
EPD verifier	Elma Avdyli, as an authorized verifier acting for EPD Hub Limited

The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

Product	
Product name	Basic 2 för fördelningslåda
Additional labels	Appendix A
Product reference	-
Place of production	Taberg, Sweden
Period for data	2023
Averaging in EPD	Multiple products
Variation in GWP-fossil for A1-A3	<20%

Environmental data summary	
Declared unit	1 unit of Basic 2 för fördelningslåda
Declared unit mass	0.2862 kg
GWP-fossil, A1-A3 ($kgCO_2e$)	1,18E+00
GWP-total, A1-A3 ($kgCO_2e$)	3,89E-01
Secondary material, inputs (%)	14,9
Secondary material, outputs (%)	95.1
Total energy use, A1-A3 (kWh)	12.2
Total water use, A1-A3 (m^3e)	0,03

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

HAGAB is one of Sweden´s leading companies which develop, manufacture and sell advanced solutions for fire protection and ventilation. Since 1985, HAGAB has been making everyday life easier and safer for our customers.

PRODUCT DESCRIPTION

The backflow protection “Basic 2 för fördelningslåda” is an ingenious basic protection for installation in a distribution box that slows down the spread of toxic fire gases in buildings with central supply and exhaust air ventilation and dense fire cells.

Further information can be found at https://hagab.com/.

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass- %	Material origin
Metals	96,3%	Europe
Minerals	1%	Europe
Fossil materials	2,7%	Europe
Bio-based materials	-	

BIOGENIC CARBON CONTENT

Product’s biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0
Biogenic carbon content in packaging, kg C	0.212

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 unit of Basic 2 för fördelningslåda
Mass per declared unit	0,2862 kg
Functional unit	-
Reference service life	-

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

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PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

Product stage			Assembly stage		Use stage							End of life stage				Beyond the system boundaries
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
x	x	x	x	x	MND	MND	MND	MND	MND	MND	MND	x	x	x	x	x
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstr./demol.	Transport	Waste processing	Disposal	Reuse

Modules not declared = MND. Modules not relevant = MNR.

MANUFACTURING AND PACKAGING (A1-A3)

The environmental impacts considered for the product stage cover the manufacturing of raw materials used in the production as well as packaging materials and other ancillary materials. Also, fuels used by machines, and handling of waste formed in the production processes at the manufacturing facilities are included in this stage. The study also considers the material losses occurring during the manufacturing processes as well as losses during electricity transmission.

The product is made from steel, rubber and low quantities of other materials. A1 covers the raw material extraction and manufacturing of all the semi-finished products which are bought from external suppliers. A2 covers the transport of the semi-finished products from the suppliers to our manufacturing site in Taberg where the final product is assembled, Euro 5 and 6 lorries are assumed. A3 covers the energy and heat used for the manufacturing and assembly process. The manufacturing performed at the site involves punching and bending of metal sheets where 20% scrap metal is assumed. The assembly process is made by hand without any further energy-demanding processes. The finished products are packed together in a cardboard box which is placed on a wooden pallet and shipped off to the customer.

TRANSPORT AND INSTALLATION (A4-A5)

Transportation impacts occurred from final products delivery to construction site (A4) cover fuel direct exhaust emissions, environmental impacts of fuel production, as well as related infrastructure emissions.

A4 covers the transport to the installation site for the product with appurtenant packaging shipped on pallets. 300 km average transportation and euro 6 lorry is assumed. A5 involves the installation which is done by hand without any major procedures and waste treatment of the accompanying packaging. The packaging cardboard is assumed to be 100% recycled and the pallet is incinerated for energy recovery.

PRODUCT USE AND MAINTENANCE (B1-B7)

N/A.

Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

Consumption of energy and natural resources in the demolition process is assumed to be negligible because it can be done by hand. C2 involves the transportation of waste which is assumed to be 300 km and done by Euro 6 lorry. C3 covers the sorting and pressing of iron scrap and the treatment of rubber. C4 includes the waste disposal processes where 95% of the steel is assumed to be recycled and 5% to be landfilled. All the rubber is assumed to be incinerated. D includes the loads from recycling the steel and burning the rubber. Furthermore, the benefit of avoiding virgin production of steel and energy recovery from rubber.

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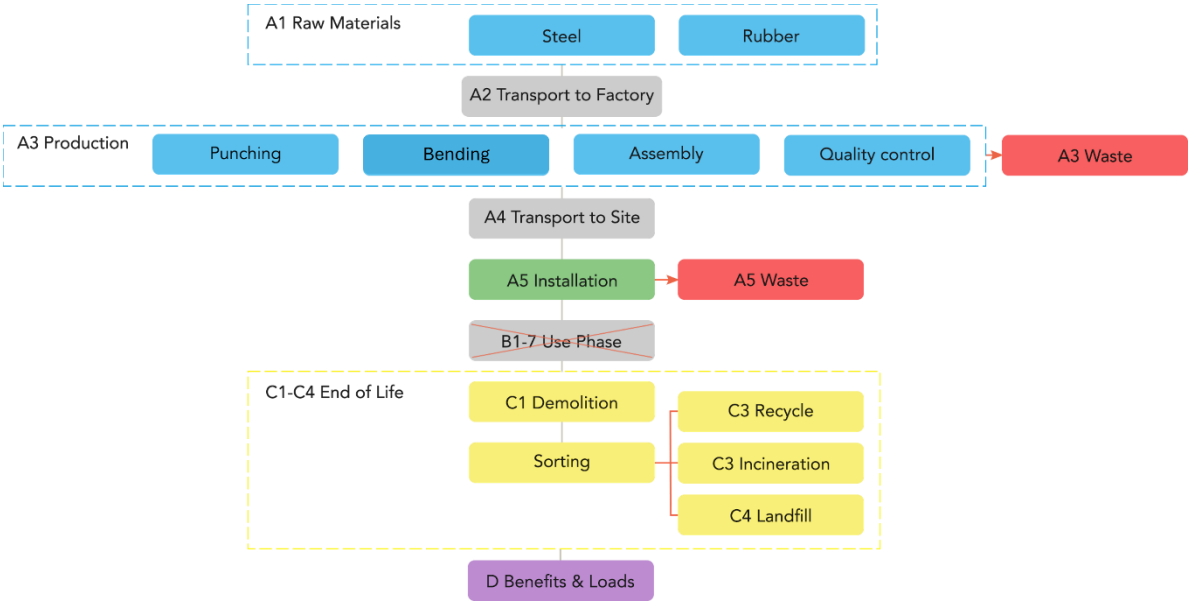
MANUFACTURING PROCESS



LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation.

There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	Allocated by mass or volume
Packaging materials	Allocated by mass or volume
Ancillary materials	Not applicable
Manufacturing energy and waste	Allocated by mass or volume

AVERAGES AND VARIABILITY

Type of average	Multiple products
Averaging method	Averaged by shares of total volume
Variation in GWP-fossil for A1-A3	<20 %

The EPD data is based on 3 different sizes which are averaged according to sales volume. The table in Appendix A displays a conversion factor for translating the EPD data to all three sizes of the product.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. Ecoinvent v3.8 and One Click LCA databases were used as sources of environmental data.

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CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total[1)]	kg CO_2e	7,96E-01	3,52E-02	-4,42E-01	3,89E-01	2,34E-02	8,04E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,40E-02	2,20E-02	7,12E-05	4,16E-01
GWP – fossil	kg CO_2e	7,95E-01	3,52E-02	3,46E-01	1,18E+00	2,34E-02	1,50E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,40E-02	2,19E-02	7,11E-05	4,16E-01
GWP – biogenic	kg CO_2e	2,05E-05	1,09E-05	-7,89E-01	-7,89E-01	0,00E+00	7,89E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
GWP – LULUC	kg CO_2e	6,68E-04	1,39E-05	1,34E-03	2,02E-03	8,64E-06	1,40E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,58E-06	7,75E-06	6,71E-08	8,60E-05
Ozone depletion pot.	kg $CFC_{-11}e$	4,66E-08	8,17E-09	5,19E-08	1,07E-07	5,39E-09	2,32E-09	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,23E-09	7,54E-10	2,88E-11	1,63E-08
Acidification potential	mol H^+e	7,96E-03	1,05E-04	2,61E-03	1,07E-02	9,92E-05	5,70E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,96E-05	7,75E-05	6,68E-07	1,74E-03
EP-freshwater[2)]	kg Pe	0,00E+00	2,52E-07	1,98E-05	2,00E-05	1,92E-07	5,07E-07	MND	MND	MND	MND	MND	MND	MND	0,00E+00	9,96E-08	3,16E-07	7,45E-10	1,71E-05
EP-marine	kg Ne	8,50E-04	2,23E-05	7,34E-04	1,61E-03	2,95E-05	1,11E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,91E-06	1,73E-05	2,31E-07	3,50E-04
EP-terrestrial	mol Ne	2,55E-02	2,48E-04	6,55E-03	3,23E-02	3,25E-04	1,18E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	8,79E-05	1,98E-04	2,54E-06	4,08E-03
POCP ("smog")[3)]	kg NMVOCe	3,20E-03	9,22E-05	1,81E-03	5,10E-03	1,04E-04	4,04E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,38E-05	5,39E-05	7,40E-07	2,06E-03
ADP-minerals & metals[4)]	kg Sbe	4,90E-05	1,23E-07	1,51E-06	5,06E-05	5,49E-08	8,43E-08	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,05E-08	7,84E-07	1,63E-10	7,78E-06
ADP-fossil resources	MJ	1,02E+01	5,25E-01	3,21E+00	1,39E+01	3,52E-01	2,26E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,08E-01	8,18E-02	1,95E-03	3,65E+00
Water use[5)]	m^3e depr.	5,70E-01	2,45E-03	2,39E+00	2,96E+00	1,57E-03	3,08E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	9,72E-04	2,17E-03	6,18E-06	7,56E-02

1) GWP = Global Warming Potential.

2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO4e.

3) POCP = Photochemical ozone formation.

4) ADP = Abiotic depletion potential.

5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

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ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, PEF

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	7,56E-08	2,96E-09	2,97E-08	1,08E-07	2,70E-09	1,85E-09	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,12E-09	9,82E-10	1,35E-11	2,78E-08
Ionizing radiation[6)]	kBq U235e	7,70E-02	2,74E-03	1,07E+00	1,15E+00	1,68E-03	2,76E-03	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,09E-03	8,88E-04	8,82E-06	-1,18E-02
Ecotoxicity (freshwater)	CTUe	2,93E+01	4,39E-01	1,21E+01	4,19E+01	3,17E-01	7,20E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,73E-01	3,91E-01	1,27E-03	1,48E+01
Human toxicity, cancer	CTUh	4,20E-09	1,33E-11	9,16E-10	5,13E-09	7,78E-12	1,68E-11	MND	MND	MND	MND	MND	MND	MND	0,00E+00	5,33E-12	1,24E-11	3,18E-14	-3,46E-09
Human tox. non-cancer	CTUh	3,61E-08	4,32E-10	6,14E-09	4,27E-08	3,13E-10	2,42E-10	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,70E-10	5,43E-10	8,32E-13	9,85E-09
SQP[7)]	-	1,90E+00	3,97E-01	5,40E+01	5,63E+01	4,05E-01	1,20E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,48E-01	1,59E-01	4,17E-03	1,36E+00

6) EN 15804+A2 disclaimer for Ionizing radiation, human health. This impact category deals mainly with the eventual impact of low dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy[8)]	MJ	1,35E+00	7,53E-03	7,03E+00	8,39E+00	3,96E-03	1,67E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,02E-03	1,41E-02	1,69E-05	3,29E-01
Renew. PER as material	MJ	0,00E+00	0,00E+00	6,89E+00	6,89E+00	0,00E+00	-6,89E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of renew. PER	MJ	1,35E+00	7,53E-03	1,39E+01	1,53E+01	3,96E-03	-6,87E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,02E-03	1,41E-02	1,69E-05	3,29E-01
Non-re. PER as energy	MJ	9,60E+00	5,25E-01	2,51E+01	3,52E+01	3,52E-01	2,26E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,08E-01	8,18E-02	1,95E-03	3,65E+00
Non-re. PER as material	MJ	0,00E+00	0,00E+00	3,65E-01	3,65E-01	0,00E+00	-3,65E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Total use of non-re. PER	MJ	9,60E+00	5,25E-01	2,55E+01	3,56E+01	3,52E-01	-1,40E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,08E-01	8,18E-02	1,95E-03	3,65E+00
Secondary materials	kg	4,28E-02	1,76E-04	1,39E-01	1,82E-01	9,77E-05	1,35E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,07E-05	9,03E-05	4,10E-07	-2,35E-01
Renew. secondary fuels	MJ	1,19E-23	1,91E-06	1,89E-01	1,89E-01	9,86E-07	7,98E-07	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,78E-07	4,65E-06	1,07E-08	3,77E-05
Non-ren. secondary fuels	MJ	1,39E-22	0,00E+00	0,00E+00	1,39E-22	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m^3	3,57E-03	6,72E-05	2,85E-02	3,21E-02	4,56E-05	9,06E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,65E-05	7,00E-05	2,13E-06	9,49E-04

8) PER = Primary energy resources.

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HAGAB®

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	1,14E-02	5,98E-04	1,82E-02	3,02E-02	4,67E-04	7,46E-04	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,36E-04	5,35E-04	0,00E+00	1,37E-01
Non-hazardous waste	kg	1,29E-01	1,06E-02	4,27E-01	5,67E-01	7,67E-03	2,29E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,20E-03	2,39E-02	1,35E-02	6,97E-01
Radioactive waste	kg	1,62E-04	3,61E-06	4,16E-04	5,82E-04	2,35E-06	1,48E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,43E-06	4,61E-07	0,00E+00	-3,73E-07

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Materials for recycling	kg	5,03E-02	0,00E+00	1,04E-02	6,07E-02	0,00E+00	1,21E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	2,65E-01	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,25E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	6,78E-03	0,00E+00	0,00E+00
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	MND	MND	MND	MND	MND	MND	0,00E+00	0,00E+00	1,53E-01	0,00E+00	0,00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML / ISO 21930

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO_2e	3,97E-01	3,77E-02	3,48E-01	7,83E-01	2,32E-02	1,75E-02	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,38E-02	2,18E-02	6,96E-05	3,94E-01
Ozone depletion Pot.	kg $CFC_{-11}e$	3,51E-09	7,00E-09	4,30E-08	5,36E-08	4,27E-09	1,86E-09	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,56E-09	6,13E-10	2,28E-11	1,81E-08
Acidification	kg SO_2e	8,10E-04	9,19E-05	2,03E-03	2,93E-03	7,71E-05	4,69E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	3,25E-05	6,22E-05	5,05E-07	1,41E-03
Eutrophication	kg $PO_4^{3}e$	9,66E-05	1,99E-05	7,96E-04	9,12E-04	1,76E-05	4,72E-05	MND	MND	MND	MND	MND	MND	MND	0,00E+00	7,02E-06	2,16E-05	1,09E-07	7,05E-04
POCP ("smog")	kg C_2H_4e	1,32E-04	4,51E-06	1,32E-04	2,68E-04	3,01E-06	3,87E-06	MND	MND	MND	MND	MND	MND	MND	0,00E+00	1,64E-06	2,31E-06	2,12E-08	2,35E-04
ADP-elements	kg Sbe	2,82E-06	1,30E-07	3,79E-06	6,74E-06	5,32E-08	8,32E-08	MND	MND	MND	MND	MND	MND	MND	0,00E+00	4,93E-08	7,83E-07	1,61E-10	7,76E-06
ADP-fossil	MJ	5,34E+00	5,68E-01	2,55E+01	3,14E+01	3,52E-01	2,26E-01	MND	MND	MND	MND	MND	MND	MND	0,00E+00	2,08E-01	8,17E-02	1,95E-03	3,65E+00

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ERIFICATION STATEMENT

VERIFICATION PROCESS FOR THIS EPD

This EPD has been verified in accordance with ISO 14025 by an independent, third-party verifier by reviewing results, documents and compliancy with reference standard, ISO 14025 and ISO 14040/14044, following the process and checklists of the program operator for:

- This Environmental Product Declaration
- The Life-Cycle Assessment used in this EPD
- The digital background data for this EPD

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This EPD has been generated by One Click LCA EPD generator, which has been verified and approved by the EPD Hub.

THIRD-PARTY VERIFICATION STATEMENT

I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of the data collected and used in the LCA calculations, the way the LCA-based calculations have been carried out, the presentation of environmental data in the EPD, and other additional environmental information, as present with respect to the procedural and methodological requirements in ISO 14025:2010 and reference standard.

I confirm that the company-specific data has been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity and legal compliance.

I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the EPD to carry out this verification.

I confirm my independence in my role as verifier; I have not been involved in the execution of the LCA or in the development of the declaration and have no conflicts of interest regarding this verification.

Elma Avdyli, as an authorized verifier acting for EPD Hub Limited

25.03.2024

ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025 / ISO 21930

APPENDIX A: PRODUCT VARIATIONS

As mentioned in earlier sections, the table in this appendix can be used to convert the results of the LCA presented in this EPD to specific sizes of the “Basic 2 för fördelningslåda” that are available at HAGAB. The environmental impact for each unique article can thus be calculated by multiplying the results presented in this EPD by the corresponding conversion factor.

Article	Name	Diameter (mm)	Length (mm)	Weight (kg)	Conversion factor
BA2010	Basic 2 för fördelningslåda	100	75	0,23	0,86
BA2012	Basic 2 för fördelningslåda	125	75	0,29	1,0
BA2016	Basic 2 för fördelningslåda	160	75	0,37	1,21

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