Environmental product declaration - EPD

Environmental product declaration according to ISO 14025 and EN 15804

Alwex concrete products

Alwex Transport AB

Programme:	The International EPD® System, www.environdec.com
Programme holder:	EPD International AB
EPD declaration number:	S-P-06392
Issue date:	2022-08-30
Valid to:	2027-08-30
Revision date:	2023-02-15
Revision description:	The product composition of C32/40 Frost has changed through an increase of 14 kg of cement and subsequently a decrease of 14 kg of furnace slag.

Verification information

Programme holder	The International EPD® System EPD International AB Box 210 60 SE-100 31 Stockholm Sweden www.environdec.com info@environdec.com
Third-party verifier	Pär Lindman - Miljögiraff
Third-party verifier authorized by	The International EPD System

Product specific rules (PCR): PCR 2019:14 Construction products (version 1.11)
PCR-review performed by: The Technological committee for the international EPD® -system. *Chairperson: Claudia A. Peña* *Contact via info@environdec.com*
Independent verification of declaration and data according to ISO 14025:2006, PCR 2019:14 Construction products (version 1.11) ☐ Certification of EPD process ☒ EPD verification Approved by: The International EPD® System

Follow-up procedure for information during the period of validity for the EPD involves a third-party verifier: ☒ Yes ☐ No	
Issue date	2022-08-30
Valid to	2027-08-30

The owner of the declaration is responsible for the content in the EPD. Environmental product declarations within the same product category from different programme holders are not always comparable. EPD of construction products may not be comparable if they do not comply with EN 15804.

Information about manufacturer

Owner of declaration
Alwex Transport AB. Högsbyvägen 3 35274 Växjö. Telephone: 0470-727131.

Description of operation
Alwex is an expansive company with continuous and extensive investments in green transports and environmental sustainability. Our pronounced objective is to be the leading supplier of tailored transports, construction contracts, storage and logistic solutions in southern Sweden.

Alwex Transport AB started in the year 2000 and within the company group there are three daughter companies – Alwex Intermodal, Alwex Recycling and Alwex Lager & Logistik. The business operation in the mother and daughter companies is mutually cooperated in three business areas. The company base is located in Växjö. The headquarter is in Växjö and the storage and terminal operation is in Växjö and Jönköping. In total, Alwex has over 60 000 cubic meter of storage area and about 300 transport vehicles at its disposal.

Alwex is owned by approximately 70 partners, that are all suppliers of transport and machine services to the company. As of now, there are over 200 people employed within the mother and daughter companies. Within Alwex there is also a concrete station where ready mixed concrete is manufactured and then delivered to customers.

Production site placement
Alwex Betong is located in Växjö, Sweden.

Geographical scope
Sweden

Product description

Product name/identification
Ready mixed concrete C32/40 Frost
Ready mixed concrete C32/40 Skb
Ready mixed concrete C35/45 Frys
Ready mixed concrete C45/55 Vct

Product description
Concrete for construction use. Concrete C32/40 Frost is for example used in construction parts that are exposed to freezing, Concrete C32/40 Skb is used for flooring, Concrete C35/45 Frys is used for bridges and parking houses and Concrete C45/55 Vct is usually used for applications that needs quicker drying. The ready mixed concrete manufactured by Alwex Transport AB is process certified and fulfils the requirements of the European standard EN 206 and the Swedish standard SS137003.

Content declaration

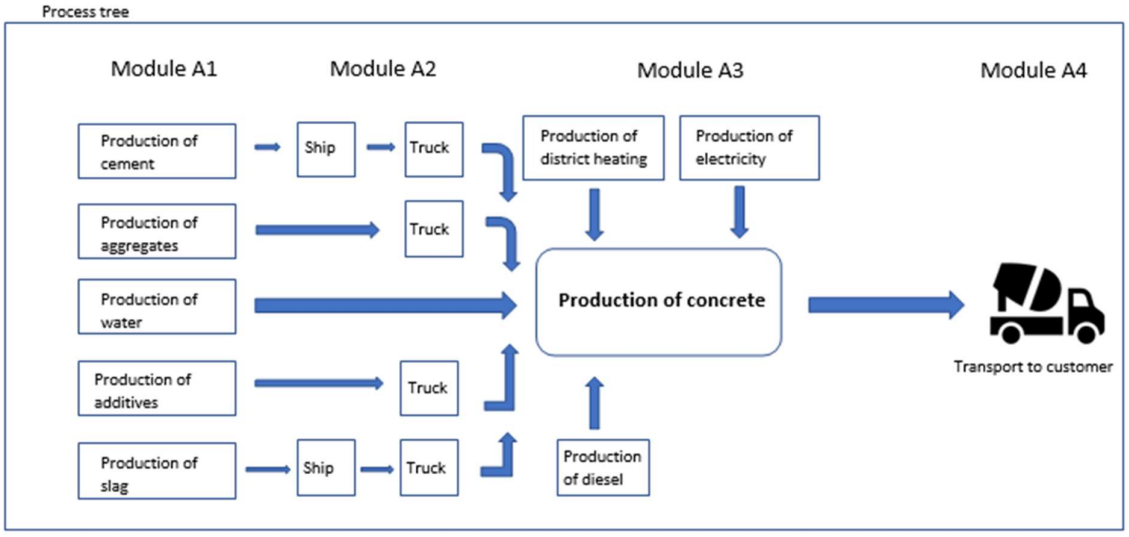
Materials	C32/40 Frost		C32/40 Skb		C35/45 Frys		C45/55 Vct	
	Kg	Weight %	Kg	Weight %	Kg	Weight %	Kg	Weight %
Portland Limestone Cement	350	14,7	312	13,50			440	18,50
Portland Fly Ash Cement					420	18,40		
GGBS*	78	4,00	91	3,90			119	5,00
Aggregates	1658	73,00	1694	73,50	1684	73,55	1622	68,40
Water	181	8,00	202	8,71	180	7,90	182	7,77
Superplasticizers	4,7	0,20	6	0,03	3	0,10	7,8	0,33
Air entrainers	1,3	0,05			1,2	0,05		

*Ground granulated blast furnace slag

Declared unit: 1 cubic meter (m^3) of concrete
Reference year for data: 2021
Used database: Ecoinvent 3.8
LCA-software: SimaPro 9.3

Manufacturing process
The aggregate material is picked up from the Skanska quarry in Räppe and at the concrete station it is dumped in pockets and then moved into the factory on a conveyor. There it is weighed and then moved to a mixer. The additives are transported with truck and then pumped into different containers in the factory. The cement is also transported with truck and at the site it is blown into silos. Cement, additives and water are then also weighed, and when all the material has gone into the mixer it gets mixed for a certain amount of time and is then directly moved down in the concrete truck and transported to the customer.

Process tree



Description of system boundaries
The environmental product declaration includes cradle to gate with modules A1-A4, C1-C4 and D.

The production phase (A1-A4) includes extraction of upstream raw materials (A1), transport of raw material to core production (A2), the manufacturing of concrete products at Alwex production site (A3) and transport of product to customer (A4).

The end phase (C1-C4, D) includes demolition after use (C1), transport to waste management (C2), waste management (C3, C4) and benefits/loads outside the lifecycle (D).

The use phase is not included in this EPD.

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Module	**A1**	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Modules declared	x	x	x	x	ND	NR	NR	NR	NR	NR	NR	NR	x	x	x	x	x
Geography	SE	SE	SE	SE	-	-	-	-	-	-	-	-	SE	SE	SE	SE	SE
Specific data used	The percentage of specific data is assumed to be larger than 60%, but it cannot be proved since one or several EPDs that are used as data sources lack information on the percentage of specific data used.			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation - products	<10% for C32/40 Frost and C32/40 Skb			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation - sites	Not relevant			-	-	-	-	-	-	-	-	-	-	-	-	-	-

Assumptions

Transport to customer (A4)
The fuel used for transport to customer is *Preem Evolution Diesel Premium*. The used distance to customer is a mean distance of 15 km that Alwex provided.

Demolition after use (C1)
Demolition of concrete takes place at the customer site when the lifespan of the product has ended.

Transport to waste management (C2)
For transport to waste management a scenario where concrete is being collected has been assumed, which through the generic dataset indirectly assumes a distance.

Waste management (C3, C4)
The waste management in C3 is assumed to constitute of crushing of concrete. The use of diesel for this has been collected from Trafikverkets klimatkalkyl. The final waste management in C4 is handled as concrete landfill.

Benefits outside the lifecycle (D)
Benefits outside the lifecycle is assumed to be the avoidance of rock as a raw material in the next lifecycle. Processes that are being avoided are assumed to be blasting and drilling of rock, as well as preservation of the raw material granite. The use of diesel for drilling and amounts for explosives have been collected from Trafikverkets klimatkalkyl.

Recycled material
After use, the concrete material is disassembled and transported to recycling or landfill. 85% of the concrete is expected to be recycled and the other 15% ends up as waste to landfill. The scenario for transport to waste management is based on generic data for concrete waste management in Europe.

Environmental impact

Potential environmental impact, resource use and output flows per 1 m3 of concrete were calculated with SimaPro 9**.3** © and modelled with the methods EN 15804 + A2 Method, Cumulative Energy Demand and EDIP 2003. Eutrophication, freshwater with unit kg PO4 eq. was modelled with the method CML-IA baseline.

Environmental impact for 1 m3 concrete product C35/45 Frys.

Impact category		UNIT	Tot. A1-A3	A4	C1	C2	C3	C4	D
Global warming potential (GWP)	TOTAL	kg CO_2 eq.	3,21E+02	7,24E+00	8,48E+00	6,46E+00	5,15E+00	2,68E+00	-1,40E+00
	Fossil	kg CO_2 eq.	3,08E+02	3,52E+00	8,47E+00	6,43E+00	5,15E+00	2,66E+00	-1,42E+00
	Biogenic	kg CO_2 eq.	1,18E+01	3,72E+00	7,33E-03	3,50E-02	3,87E-03	1,03E-02	1,34E-02
	Land use / Land transformation	kg CO_2 eq.	5,27E-01	1,84E-03	8,45E-04	3,87E-03	2,15E-04	8,11E-03	-1,56E-03
Ozone depletion (ODP)		kg CFC 11 eq.	6,47E-06	7,54E-07	1,81E-06	1,39E-06	1,13E-06	8,66E-07	-8,83E-08
Acidification (AP)		mol H^+ eq.	7,01E-01	4,02E-02	8,80E-02	3,92E-02	5,60E-02	2,18E-02	-8,30E-03
Eutrophication, freshwater (EP-freshwater)		kg P eq.	2,56E-02	1,95E-04	2,62E-04	7,84E-04	5,23E-05	2,56E-04	-2,58E-04
Eutrophication, freshwater (EP-freshwater)		kg PO4 eq.	1,09E-01	7,27E-03	1,45E-02	7,69E-03	8,99E-03	3,69E-03	-1,93E-03
Eutrophication, marine (EP-marine)		kg N eq.	7,90E-02	1,75E-02	3,90E-02	1,42E-02	2,52E-02	7,69E-03	-1,70E-03
Eutrophication, terrestrial (EP-terrestrial)		mol N eq.	2,41E+00	1,93E-01	4,27E-01	1,54E-01	2,76E-01	8,39E-02	-2,44E-02
Photochemical ozone formation potential (POFP)		kg NMVOC eq.	6,27E-01	4,57E-02	1,02E-01	3,75E-02	6,61E-02	2,06E-02	-4,27E-03
Abiotic depletion potential of non-fossil resources (ADP-minerals & metals)		kg Sb eq.	1,35E-04	4,47E-06	4,36E-06	2,32E-05	8,84E-07	7,35E-06	-1,68E-05
Abiotic depletion potential of fossil resources (ADP-fossil)		MJ	9,16E+02	4,72E+01	1,16E+02	9,83E+01	6,79E+01	6,10E+01	-1,23E+01
Water depletion potential (WDP)		m^3	1,40E+02	2,24E+00	1,66E-01	4,12E-01	9,28E-03	2,15E+00	-4,30E-01

Environmental impact for 1 m3 concrete product C45/55 Vct.

Impact category		UNIT	Tot. A1-A3	A4	C1	C2	C3	C4	D
Global warming potential (GWP)	TOTAL	kg CO_2 eq.	3,91E+02	7,52E+00	8,80E+00	6,71E+00	5,15E+00	2,78E+00	-1,40E+00
	Fossil	kg CO_2 eq.	3,64E+02	3,66E+00	8,79E+00	6,67E+00	5,15E+00	2,76E+00	-1,42E+00
	Biogenic	kg CO_2 eq.	2,65E+01	3,86E+00	7,61E-03	3,63E-02	3,87E-03	1,07E-02	1,34E-02
	Land use / Land transformation	kg CO_2 eq.	4,92E-01	1,91E-03	8,78E-04	4,02E-03	2,15E-04	8,42E-03	-1,56E-03
Ozone depletion (ODP)		kg CFC 11 eq.	1,14E-05	7,83E-07	1,88E-06	1,44E-06	1,13E-06	8,99E-07	-8,83E-08
Acidification (AP)		mol H^+ eq.	7,18E-01	4,18E-02	9,14E-02	4,07E-02	5,60E-02	2,27E-02	-8,30E-03
Eutrophication, freshwater (EP-freshwater)		kg P eq.	2,04E-02	2,03E-04	2,72E-04	8,14E-04	5,23E-05	2,66E-04	-2,58E-04
Eutrophication, freshwater (EP-freshwater)		kg PO4 eq.	1,25E-01	7,55E-03	1,51E-02	7,98E-03	8,99E-03	3,83E-3	-1,93E-03
Eutrophication, marine (EP-marine)		Kg N eq.	1,61E-01	1,81E-02	4,05E-02	1,47E-02	2,52E-02	7,99E-03	-1,70E-03
Eutrophication, terrestrial (EP-terrestrial)		mol N eq.	2,81E+00	2,00E-01	4,44E-01	1,60E-01	2,76E-01	8,71E-02	-2,44E-02
Photochemical ozone formation potential (POFP)		kg NMVOC eq.	6,28E-01	4,74E-02	1,06E-01	3,89E-02	6,61E-02	2,14E-02	-4,27E-03
Abiotic depletion potential of non-fossil resources (ADP-minerals & metals)		kg Sb eq.	1,50E-04	4,64E-06	4,52E-06	2,41E-05	8,84E-07	7,63E-06	-1,68E-05
Abiotic depletion potential of fossil resources (ADP-fossil)		MJ	1,56E+03	4,90E+01	1,21E+02	1,02E+02	6,79E+01	6,34E+01	-1,23E+01
Water depletion potential (WDP)		m^3	1,53E+02	2,33E+00	1,72E-01	4,28E-01	9,28E-03	2,24E+00	-4,30E-01

Environmental impact for 1 m3 concrete product C32/40 Skb (includes C32/40 Frost)

Impact category		UNIT	Tot. A1-A3	A4	C1	C2	C3	C4	D
Global warming potential (GWP)	TOTAL	kg CO_2 eq.	2,81E+02	7,23E+00	8,46E+00	6,45E+00	5,15E+00	2,67E+00	-1,40E+00
	Fossil	kg CO_2 eq.	2,61E+02	3,51E+00	8,45E+00	6,41E+00	5,15E+00	2,65E+00	-1,42E+00
	Biogenic	kg CO_2 eq.	1,94E+01	3,71E+00	7,31E-03	3,49E-02	3,87E-03	1,03E-02	1,34E-02
	Land use / Land transformation	kg CO_2 eq.	4,72E-01	1,84E-03	8,43E-04	3,86E-03	2,15E-04	8,09E-03	-1,56E-03
Ozone depletion (ODP)		kg CFC 11 eq.	8,38E-06	7,52E-07	1,81E-06	1,39E-06	1,13E-06	8,64E-07	-8,83E-08
Acidification (AP)		mol H^+ eq.	5,33E-01	4,01E-02	8,78E-02	3,91E-02	5,60E-02	2,18E-02	-8,30E-03
Eutrophication, freshwater (EP-freshwater)		kg P eq.	1,52E-02	1,95E-04	2,62E-04	7,82E-04	5,23E-05	2,55E-04	-2,58E-04
Eutrophication, freshwater (EP-freshwater)		kg PO4 eq.	9,41E-02	7,30E-03	1,45E-02	7,67E-03	8,99E-03	3,68E-3	-1.93E-03
Eutrophication, marine (EP-marine)		Kg N eq.	1,23E-01	1,74E-02	3,89E-02	1,41E-02	2,52E-02	7,68E-03	-1,70E-03
Eutrophication, terrestrial (EP-terrestrial)		mol N eq.	2,07E+00	1,92E-01	4,26E-01	1,54E-01	2,76E-01	8,37E-02	-2,44E-02
Photochemical ozone formation potential (POFP)		kg NMVOC eq.	4,65E-01	4,56E-02	1,02E-01	3,74E-02	6,61E-02	2,06E-02	-4,27E-03
Abiotic depletion potential of non-fossil resources (ADP-minerals & metals)		kg Sb eq.	1,27E-04	4,46E-06	4,35E-06	2,32E-05	8,84E-07	7,33E-06	-1,68E-05
Abiotic depletion potential of fossil resources (ADP-fossil)		MJ	1,15E+03	4,71E+01	1,16E+02	9,80E+01	6,79E+01	6,09E+01	-1,23E+01
Water depletion potential (WDP)		m^3	1,48E+02	2,24E+00	0,00E+00	1,96E-01	4,06E+00	4,29E-01	-4,30E-01

Resource use

Resource use for 1 m3 concrete product C35/45 Frys

PARAMETER		UNIT	A1-A3	A4	C1	C2	C3	C4	D
Renewable primary energy	As energy carrier	MJ	1,06E+02	4,70E+01	6,53E-01	2,61E+00	1,90E-01	7,12E-01	-9,58E-01
	As material utilization	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	TOTAL	MJ	1,06E+02	4,70E+01	6,53E-01	2,61E+00	1,90E-01	7,12E-01	-9,58E-01
Non-renewable primary energy	As energy carrier	MJ	8,23E+01	5,01E+01	1,23E+02	1,04E+02	7,21E+01	6,49E+01	-1,32E+01
	As material utilization	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	TOTAL	MJ	8,23E+01	5,01E+01	1,23E+02	1,04E+02	7,21E+01	6,49E+01	-1,32E+01
Use of secondary material		kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels		MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of non-renewable secondary fuels		MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water		m3	3,72E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Resource use for 1 m3 concrete product C45/55 Vct

PARAMETER		UNIT	A1-A3	A4	C1	C2	C3	C4	D
Renewable primary energy	As energy carrier	MJ	1,72E+02	4,88E+01	6,78E-01	2,71E+00	1,90E-01	7,39E-01	-9,58E-01
	As material utilization	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	TOTAL	MJ	1,72E+02	4,88E+01	6,78E-01	2,71E+00	1,90E-01	7,39E-01	-9,58E-01
Non-renewable primary energy	As energy carrier	MJ	1,50E+02	5,20E+01	1,28E+02	1,08E+02	7,21E+01	6,74E+01	-1,32E+01
	As material utilization	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	TOTAL	MJ	1,50E+02	5,20E+01	1,28E+02	1,08E+02	7,21E+01	6,74E+01	-1,32E+01
Use of secondary material		kg	1,19E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels		MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of non-renewable secondary fuels		MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water		m3	3,72E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Resource use for 1 m3 concrete product C32/40 Skb (includes C32/40 Frost)

PARAMETER		UNIT	A1-A3	A4	C1	C2	C3	C4	D
Renewable primary energy	As energy carrier	MJ	1,29E+02	4,69E+01	6,52E-01	2,61E+00	1,90E-01	7,10E-01	-9,58E-01
	As material utilization	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	TOTAL	MJ	1,29E+02	4,69E+01	6,52E-01	2,61E+00	1,90E-01	7,10E-01	-9,58E-01
Non-renewable primary energy	As energy carrier	MJ	1,19E+02	5,00E+01	1,23E+02	1,04E+02	7,21E+01	6,47E+01	-1,32E+01
	As material utilization	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	TOTAL	MJ	1,19E+02	5,00E+01	1,23E+02	1,04E+02	7,21E+01	6,47E+01	-1,32E+01
Use of secondary material		kg	1,83E+02	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of renewable secondary fuels		MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of non-renewable secondary fuels		MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water		m3	3,72E-01	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

Waste production

Resource use for 1 m3 concrete product C35/45 Frys

PARAMETER	UNIT	A1-A3	A4	C1	C2	C3	C4	D
Hazardous waste	kg	1,79E-04	1,20E-04	3,18E-04	2,41E-04	1,80E-04	1,08E-04	-4,87E-05
Non-hazardous waste	kg	5,69E-01	1,65E-01	1,58E-01	5,72E+00	3,43E-02	3,17E+02	-1,80E-01
Radioactive waste	kg	4,58E-04	3,26E-04	8,02E-04	6,53E-04	4,82E-04	3,98E-04	-3,20E-05

Resource use for 1 m3 concrete product C45/55 Vct

PARAMETER	UNIT	A1-A3	A4	C1	C2	C3	C4	D
Hazardous waste	kg	3,38E-04	1,25E-04	3,30E-04	2,50E-04	1,80E-04	1,13E-04	-4,87E-05
Non-hazardous waste	kg	7,82E-01	1,71E-01	1,64E-01	5,94E+00	3,43E-02	3,29E+02	-1,80E-01
Radioactive waste	kg	9,03E-04	3,38E-04	8,33E-04	6,78E-04	4,82E-04	4,13E-04	-3,20E-05

Resource use for 1 m3 concrete product C32/40 Skb (includes C32/40 Frost)

PARAMETER	UNIT	A1-A3	A4	C1	C2	C3	C4	D
Hazardous waste	kg	2,64E-04	1,20E-04	3,18E-04	2,41E-04	1,80E-04	1,08E-04	-4,87E-05
Non-hazardous waste	kg	6,90E-01	1,64E-01	1,58E-01	5,71E+00	3,43E-02	3,16E+02	-1,80E-01
Radioactive waste	kg	6,95E-04	3,25E-04	8,00E-04	6,51E-04	4,82E-04	3,97E-04	-3,20E-04

Output flows

Resource use for 1 m3 concrete product C35/45 Frys

PARAMETER	UNIT	A1-A3	A4	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	0,00E+00
Materials for recycling	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,79E+03	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	0,00E+00

Resource use for 1 m3 concrete product C45/55 Vct

PARAMETER	UNIT	A1-A3	A4	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	0,00E+00
Materials for recycling	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	1,86E+03	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	0,00E+00

Resource use for 1 m3 concrete product C32/40 Skb (includes C32/40 Frost)

PARAMETER	UNIT	A1-A3	A4	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	0,00E+00
Materials for recycling	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	3,57E+03	0,00E+00	0,00E+00
Materials for energy recovery	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	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	0,00E+00

References

General Programme Instructions of the International EPD® System. Version 3.01.

PCR 2019:14 Construction products (version 1.11)

ISO 14025:2010 – Environmental labels and declarations - Type III environmental declarations - Principles and procedures

ISO 14044:2006 - Environmental management - Life cycle assessment - Requirements and guidelines

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