epd-norge
Global program operatør

Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

HF-Coilfix PP20/ 2x Data cable U/UTP 6 4P awg 23 EC400

The Norwegian EPD Foundation

Owner of the declaration:
TECCON Norge AS

Product:
HF-Coilfix PP20/ 2x Data cable U/UTP 6 4P awg 23 EC400

Declared unit:
1 m

This declaration is based on Product Category Rules:
CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 027:2020 Part B for Electrical cables and wires

Program operator:
The Norwegian EPD Foundation

Declaration number:
NEPD-9723-9656

Registration number:
NEPD-9723-9656

Issue date:
10.04.2025

Valid to:
10.04.2030

EPD software:
LCAno EPD generator ID: 864137

General information

Product

HF-Coilfix PP20/ 2x Data cable U/UTP 6 4P awg 23 EC400

Owner of the declaration:

TECCON Norge AS
Contact person: Jan Vestergaard
Phone: 51 73 37 00
e-mail: jan.vestergaard@teccon.no

Program operator:

The Norwegian EPD Foundation
Post Box 5250 Majorstuen, 0303 Oslo, Norway
Phone: +47 977 22 020
web: www.epd-norge.no

Manufacturer:

TECCON Norge AS

Declaration number:

NEPD-9723-9656

Place of production:

TECCON Norge AS
Mekjarvik 18
4072 Randaberg, Norway

This declaration is based on Product Category Rules:

CEN Standard EN 15804:2012+A2:2019 serves as core PCR
NPCR 027:2020 Part B for Electrical cables and wires

Management system:

Eco-lighthouse: 4247

Statement of liability:

The owner of the declaration shall be liable for the underlying information and evidence. EPD Norway shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

Organisation no:

986 452 125

Declared unit:

1 m HF-Coilfix PP20/ 2x Data cable U/UTP 6 4P awg 23 EC400

Issue date:

10.04.2025

Declared unit with option:

A1, A2, A3, A4, A5, C1, C2, C3, C4, D

Valid to:

10.04.2030

Year of study:

2024

Functional unit:

Comparability:

EPD of construction products may not be comparable if they not comply with EN 15804 and seen in a building context.

General information on verification of EPD from EPD tools:

Independent verification of data, other environmental information and the declaration according to ISO 14025:2010, § 8.1.3 and § 8.1.4. Verification of each EPD is made according to EPD-Norway's guidelines for verification and approval requiring that tools are i) integrated into the company's environmental management system, ii) the procedures for use of the EPD tool are approved by EPD-Norway, and iii) the process is reviewed annually by an independent third party verifier. See Appendix G of EPD-Norway's General Programme Instructions for further information on EPD tools

Development and verification of EPD:

The declaration is created using EPD tool lca.tools ver EPD2022.03, developed by LCA.no. The EPD tool is integrated in the company's management system, and has been approved by EPD Norway. Approval number: NEPDT155

Developer of EPD: Jan Vestergaard, Teccon Norge AS

Reviewer of company-specific input data and EPD: Jorulv Søbstad

Verification of EPD tool:

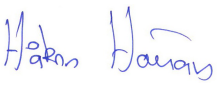
Independent third party verification of the EPD tool, background data and test-EPD in accordance with EPDNorway's procedures and guidelines for verification and approval of EPD tools. Approval number: NEPDT32.

Third party verifier:

Vito D'Incognito, Take Care International

(no signature required)

Approved:



Håkon Hauan, CEO EPD-Norge

Product

Product description:

Pre-wired corrugated, Halogen free pliable / self-recovering conduit acc. to EN 61386-1 and EN 61386-22. U/UTP cat 6 cable, unscreened, used in data communication networks with 400MHz bandwidth capacity. The cable can be used indoor, fixed installed in dry and moisty environment's, and outdoor if protected against UV. May not be buried. The cable are Halogen Free, Non Corrosive and Flame retardant, meet EN 50575 classification Dca.

Product specification

CONDUIT
Construction standards EN 611386-1; EN 61386-22
ICTA 34423

CABLE
Construction standards ISO/IEC 11801; EN 50173; IEC61156-5EN50288-1; ANS/TIA/EIA 568-C2

Materials	kg	%
Metal - Copper	0,036	24
Plastic - Polyethylene	0,054	36
Plastic - Polypropylene (PP)	0,060	40
Total	0,15	100,00

Packaging	kg	%
Packaging - Plastic	0,00	100,00
Total incl. packaging	0,15	100,00

Technical data:

Corrugated Conduit Pliable/Self recovering halogen free Polypropylene

Compression force 750N

Marking EN, Date, and meter marking: 0-100m
Temperature - operation -25 to + 90°C
Temperature - installation -5 to + 90°C

Bending Radius 8 x D

Resistant to fire performance Flame retardant, self-extinguishing, low smoke toxic emission

Insulations resistance >100M? at 500V in 1 min
Test - mechanical Acc. EN 61386-1; EN 61386-22
Test - electrical Acc. EN 61386-1; >2,0kV 50HZ in 15 min

Conductor Solid copper class 1 AWG 23
Insulation - conductor PE - coloured
Conductor marking/Pairs Colours Combinations "1 White-Blue / Blue; 2 White-Orange / Orange
3 White-Green / Green; 4 White-Brown / Brown"
Conductor laying Varying short pair lay-length (4 pairs).
Pair seperation PE cross
Jacket HFFR compound TS EN 50290-2-27
Marking acc. EIA/TIA-568-C.2
Voltage - nominel Uo/U 125
Voltage - test 1000
Conductor resistance ?/km 85
Mutual capacitance / Capacitance unballance pF/m 50/1600
Resistance isulation M? x m 5000
Resistant to fire performance EN 60332-1-2
CPR EN 50575 compliance Dca
DoP 17092
Temperature - operation -30 to +70°C
Temperature - installation 0 - +50 °C
Bending Radius Installation/operation 50/25mm

Market:

Nordic

Reference service life, product

25Y+

Reference service life, building or construction works

25Y+

LCA: Calculation rules

Declared unit:

1 m HF-Coilfix PP20/ 2x Data cable U/UTP 6 4P awg 23 EC400

Cut-off criteria:

All major raw materials and all the essential energy is included. The production processes for raw materials and energy flows with very small amounts (less than 1%) are not included. These cut-off criteria do not apply for hazardous materials and substances.

All major materials have been included. Substance representing <1% have not been included. This include folio film for packaging!

Allocation:

The allocation is made in accordance with the provisions of EN 15804. Incoming energy and water and waste production in-house is allocated equally among all products through mass allocation. Effects of primary production of recycled materials is allocated to the main product in which the material was used. The recycling process and transportation of the material is allocated to this analysis. The allocation is made in accordance with the guidelines given in EN 15804.
Raw material - Information derived from manufactory and from a LCA generator
Processing: Derived from actual measurements during production of the individual units/stages.

Data quality:

Specific data for the product composition are provided by the manufacturer. The data represent the production of the declared product and were collected for EPD development in the year of study. Background data is based on EPDs according to EN 15804 and different LCA databases. The data quality of the raw materials in A1 is presented in the table below.
Data from material supplier and the LCA generator has been accepted "As-Is"
Data from processing TECCON in-house has been repeated ongoingly without major deviations. Figures given in document are worst case values.

Materials	Source	Data quality	Year
Metal - Copper	ecoinvent 3.6	Database	2019
Packaging - Plastic	ecoinvent 3.6	Database	2019
Plastic - Polyethylene	ecoinvent 3.6	Database	2019
Plastic - Polypropylene (PP)	ecoinvent 3.6	Database	2019

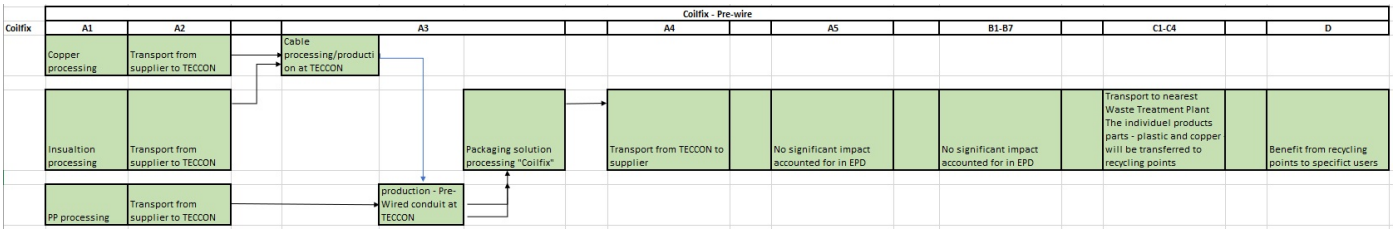
System boundaries (X=included, MND=module not declared, MNR=module not relevant)

Product stage			Construction installation stage		Use stage							End of life stage				Beyond the system boundaries
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
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

System boundary:

Cradle to Gate.
The following stages have been declared: A1-A4

The flowchart below illustrates the system boundaries of the analysis:



Additional technical information:

Article 1251639 HF-Coilfix PP20/ 2x Data cable U/UTP 6 4P awg 23 EC400 represent the maximum energy consumption from the product family below - from a production volume perspective as follow:
1251685 HF-Coilfix PP20/ 2x Data cable U/UTP 6 4P awg 23 EC450 + 1 x RG6T
1251644 HF-Coilfix PP20/ 2x Data cable U/UTP 6 4P awg 23 EC250
1251624 HF-Coilfix PP25/ 2x Data cable U/UTP 6A 4P awg 23 EC500

LCA: Scenarios and additional technical information

The following information describe the scenarios in the different modules of the EPD.

Module A4 = In A4, a transport distance from the production site to Elektroskandia's warehouse in Langhus was included. A distance of 300 km was also added as additional transport to market.

Modules A5 = 2 % product losses during installation are estimated by the company. No energy use has been quantified since installation in buildings is often done by manual labour. Use of portable electrical devices (e.g., drill) usually have low energy requirements falling under the cut-off criterion of 1%.

Module C1 = de-construction in buildings is often done by manual labour. Use of portable electrical devices (e.g., drill) usually have low energy requirements falling under the cut-off criterion of 1%.

Module C2 = 85 km is added as default transport to waste treatment in C2.

Modules C3 and C4 = Waste treatment of the product follows the default values provided in EN 50693, Product Category Rules for life cycle assessments of electronic and electrical products and systems, table G.4. This table specified how different types of raw materials used in A1 will likely be treated during the end-of-life of the product. Waste treatments in C3 include material recycling and incineration with and without energy recovery and fly ash extraction. Disposal in C4 consist of landfilling of different waste fractions and of ashes.

Module D = The recyclability of metals and plastics allows the producers a credit for the net scrap that is produced at the end of a product's life. The benefits from recycling of net scrap are described in formula from EN 15804:2012+A2:2019. Substitution of heat and electricity generated by the incineration with energy recovery of plastics is also calculated in module D.

Transport from production place to user (A4)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 6 (kgkm) - RER	36,7 %	988	0,043	l/tkm	42,48

Assembly (A5)	Unit	Value			
Waste, plastic, mixture, to average treatment - A5 including transport (kg)	kg/DU	0,0025			
Product loss during installation (percentage of cable)	Units/DU	0,020			

Waste processing (C3)	Unit	Value			
Aluminium to recycling (kg)	kg/DU	0,032			
Waste treatment of polyethylene (PE), incineration with energy recovery and fly ash extraction (kg)	kg/DU	0,081			
Waste treatment of polypropylene (PP), incineration with energy recovery and fly ash extraction (kg)	kg/DU	0,084			
Polypropylene (PP) to recycling (kg)	kg	0,012			
Copper to recycling (kg)	kg	0,021			

Disposal (C4)	Unit	Value			
Landfilling of ashes from incineration of Polyethylene (PE), process per kg ashes and residues (kg)	kg	0,0047			
Landfilling of ashes from incineration of Polypropylene (PP), process per kg ashes and residues (kg)	kg	0,0042			
Landfilling of aluminium (kg)	kg/DU	0,0036			
Landfilling of plastic mixture (kg)	kg	0,051			
Landfilling of copper (kg)	kg	0,014			

Benefits and loads beyond the system boundaries (D)	Unit	Value			
Substitution of electricity, in Norway (MJ)	MJ	0,69			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	7,19			
Substitution of primary copper with net scrap (kg)	kg/DU	0,038			
Substitution of Polypropylene, PP granulate (kg)	kg	0,011			

LCA: Results

The LCA results are presented below for the declared unit defined on page 2 of the EPD document.

Environmental impact												
	Indicator	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
	GWP-total	kg CO_2 -eq	5,42E-01	1,33E-02	1,07E-02	2,44E-02	3,25E+00	0	0	4,58E-01	6,59E-03	-1,61E-01
	GWP-fossil	kg CO_2 -eq	5,34E-01	1,33E-02	1,06E-02	2,44E-02	3,25E+00	0	0	4,58E-01	6,59E-03	-1,59E-01
	GWP-biogenic	kg CO_2 -eq	8,20E-03	4,92E-06	4,84E-05	1,01E-05	1,51E-03	0	0	3,74E-06	7,84E-07	-6,60E-04
	GWP-luluc	kg CO_2 -eq	3,27E-04	6,43E-06	7,20E-05	8,69E-06	1,16E-03	0	0	5,60E-07	2,90E-07	-1,55E-03
	ODP	kg CFC11 -eq	2,19E-08	3,08E-09	2,88E-10	5,53E-09	7,32E-07	0	0	3,55E-10	2,82E-10	-3,04E-03
	AP	mol H+ -eq	3,13E-02	1,66E-04	5,55E-05	7,02E-05	9,93E-03	0	0	5,76E-05	7,69E-06	-1,59E-02
	EP-FreshWater	kg P -eq	3,02E-04	8,92E-08	8,77E-07	1,95E-07	3,21E-05	0	0	3,67E-08	1,67E-08	-1,08E-04
	EP-Marine	kg N -eq	1,14E-03	3,87E-05	7,28E-06	1,39E-05	1,86E-03	0	0	2,76E-05	8,73E-06	-7,63E-04
	EP-Terrestial	mol N -eq	1,60E-02	4,31E-04	8,34E-05	1,55E-04	2,09E-02	0	0	2,98E-04	3,00E-05	-1,12E-02
	POCP	kg NMVOC -eq	5,31E-03	1,19E-04	2,27E-05	5,95E-05	7,98E-03	0	0	7,16E-05	9,70E-06	-3,09E-03
	ADP-minerals&metals[1]	kg Sb-eq	8,82E-05	2,72E-07	9,09E-08	6,74E-07	9,10E-05	0	0	1,64E-08	8,54E-09	-8,74E-05
	ADP-fossil[1]	MJ	1,18E+01	1,91E-01	9,18E-02	3,69E-01	4,91E+01	0	0	3,05E-02	2,21E-02	-2,29E+00
	WDP[1]	m^3	7,70E+00	1,38E-01	6,60E-01	3,57E-01	4,74E+01	0	0	6,99E-02	3,01E-01	-6,46E+00

GWP-total = Global Warming Potential total; GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment: EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals&metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator

Remarks to environmental impacts

Additional environmental impact indicators											
Indicator		**Unit**	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
	PM	Disease incidence	6,13E-08	5,49E-10	2,60E-10	1,50E-09	1,99E-07	0	0	2,46E-10	1,35E-10	-5,26E-08
	IRP[2]	kgBq U235 -eq	1,22E-02	8,29E-04	2,38E-04	1,61E-03	2,14E-01	0	0	5,23E-05	1,18E-04	-5,60E-03
	ETP-fw[1]	CTUe	2,32E+02	1,32E-01	1,36E-01	2,74E-01	4,12E+01	0	0	9,06E-02	1,12E+01	-1,46E+02
	HTP-c[1]	CTUh	5,60E-09	0,00E+00	4,00E-12	0,00E+00	1,16E-10	0	0	1,10E-11	0,00E+00	-2,08E-09
	HTP-nc[1]	CTUh	4,95E-07	1,07E-10	1,41E-10	2,99E-10	4,98E-08	0	0	3,87E-10	3,30E-11	-1,76E-07
	SQP[1]	dimensionless	3,20E+00	1,04E-01	1,14E-02	2,58E-01	3,42E+01	0	0	3,77E-03	6,70E-02	-5,83E+00

PM = Particulate Matter emissions; IRP = Ionizing radiation – human health; ETP-fw = Eco toxicity – freshwater; HTP-c = Human toxicity – cancer effects; HTP-nc = Human toxicity – non cancer effects; SQP = Potential Soil Quality Index (dimensionless)

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

1. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator
2. 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.

Resource use												
Indicator		Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
	PERE	MJ	6,20E-01	2,29E-03	1,52E-01	5,28E-03	7,15E-01	0	0	9,10E-04	1,64E-03	-4,28E+00
	PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00
	PERT	MJ	6,20E-01	2,29E-03	1,52E-01	5,28E-03	7,15E-01	0	0	9,10E-04	1,64E-03	-4,28E+00
	PENRE	MJ	7,76E+00	1,91E-01	9,18E-02	3,69E-01	4,90E+01	0	0	3,05E-02	2,21E-02	-1,93E+00
	PENRM	MJ	4,40E+00	0,00E+00	0,00E+00	0,00E+00	-4,82E-02	0	0	-4,26E+00	0,00E+00	-3,86E-01
	PENRT	MJ	1,22E+01	1,91E-01	9,18E-02	3,69E-01	4,89E+01	0	0	-4,23E+00	2,21E-02	-2,32E+00
	SM	kg	8,34E-03	0,00E+00	0,00E+00	0,00E+00	1,74E-04	0	0	0,00E+00	1,80E-05	2,70E-02
	RSF	MJ	9,52E-03	7,71E-05	7,15E-04	1,89E-04	2,52E-02	0	0	2,54E-05	3,52E-05	1,06E-03
	NRSF	MJ	6,32E-03	3,78E-04	2,97E-04	6,76E-04	8,95E-02	0	0	0,00E+00	1,02E-03	-2,14E-01
	FW	m^3	7,74E-03	1,74E-05	1,06E-03	3,95E-05	5,40E-03	0	0	8,52E-05	2,65E-05	-8,81E-03

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; SM = Use of secondary materials; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Net use of fresh water

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

End of life - Waste

Indicator		Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
	HWD	kg	3,63E-03	9,40E-06	4,24E-05	1,90E-05	2,76E-03	0	0	0,00E+00	8,33E-03	-1,10E-03
	NHWD	kg	9,75E-02	6,90E-03	3,11E-03	1,80E-02	2,38E+00	0	0	0,00E+00	7,35E-02	-6,07E-02
	RWD	kg	1,16E-05	1,31E-06	1,41E-07	2,51E-06	3,33E-04	0	0	0,00E+00	1,46E-07	-4,58E-06

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

End of life - Output flow

Indicator		Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
	CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00
	MFR	kg	0,00E+00	0,00E+00	6,46E-03	0,00E+00	2,74E-03	0	0	6,60E-02	4,61E-06	-1,06E-03
	MER	kg	0,00E+00	0,00E+00	1,14E-08	0,00E+00	3,30E-03	0	0	1,65E-01	5,67E-07	-1,67E-04
	EEE	MJ	0,00E+00	0,00E+00	1,59E-03	0,00E+00	5,91E-03	0	0	2,94E-01	1,13E-05	-3,90E-04
	EET	MJ	0,00E+00	0,00E+00	2,41E-02	0,00E+00	8,94E-02	0	0	4,44E+00	1,71E-04	-5,90E-03

CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported energy electrical; EET = Exported energy thermal

"Reading example: 9,0 E-03 = 9,0*10-3 = 0,009"
*INA Indicator Not Assessed

Biogenic Carbon Content

Indicator	Unit	At the factory gate
Biogenic carbon content in product	kg C	0,00E+00
Biogenic carbon content in accompanying packaging	kg C	0,00E+00

Note: 1 kg biogenic carbon is equivalent to 44/12 kg CO2

Additional requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

Electricity mix	Source	Amount	Unit
Electricity, Turkey (kWh)	ecoinvent 3.6	667,02	g CO2-eq/kWh
Electricity, Norway (kWh)	ecoinvent 3.6	24,33	g CO2-eq/kWh

Dangerous substances

The product contains no substances given by the REACH Candidate list.

Indoor environment

No effect on in-door environment

Additional Environmental Information

Additional environmental impact indicators required in NPCR Part A for construction products											
Indicator	**Unit**	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
GWPIOBC	kg CO_2 -eq	5,27E-01	1,33E-02	8,06E-03	2,44E-02	3,25E+00	0	0	4,58E-01	6,66E-03	-1,10E-01

GWP-IOBC: Global warming potential calculated according to the principle of instantaneous oxidation. In order to increase the transparency of biogenic carbon contribution to climate impact, the indicator GWP-IOBC is required as it declares climate impacts calculated according to the principle of instantaneous oxidation. GWP-IOBC is also referred to as GWP-GHG in context to Swedish public procurement legislation.

Bibliography

ISO 14025:2010. Environmental labels and declarations - Type III environmental declarations - Principles and procedures. International Organization for Standardization.
ISO 14044:2006. Environmental management - Life cycle assessment - Requirements and guidelines. International Organization for Standardization.
EN 15804:2012+A2:2019. Environmental product declaration - Core rules for the product category of construction products. European Committee for Standardization.
ISO 21930:2017. Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products. International Organization for Standardization.
EN 50693:2019. Product category rules for life cycle assessments of electronic and electrical products and systems. European Committee for Standardization.
Ecoinvent v3, 2019. Allocation, cut-off by classification. Swiss Centre of Life Cycle Inventories.
Iversen et al., (2021). eEPD v2021.09, background information for EPD generator tool system verification, LCA.no. Report number: 07.21. System verification report.
Philis et al., (2022). EPD generator for NPCR 027 part B for electrical wires and cables, background information for EPD generator application and LCA data, LCA.no Report number: 03.22. PCR verification report.
EPD Norway (2022). NPCR Part A: Construction products and services. The Norwegian EPD foundation. Version 2.0 published 24.03.2021.
EPD Norway (2022). NPCR 027 Part B for electrical cables and wires. The Norwegian EPD foundation. Version 2.0 published 01.03.2022.

epd-norge Global program operatør	**Program operator and publisher** The Norwegian EPD Foundation Post Box 5250 Majorstuen, 0303 Oslo, Norway	Phone: e-mail: web:	+47 977 22 020 post@epd-norge.no www.epd-norge.no
TECCON	**Owner of the declaration:** TECCON Norge AS Mekjarvik 18, 4072 Randaberg, Norway	Phone: e-mail: web:	51 73 37 00 jan.vestergaard@teccon.no teccon.no
LCA.no	**Author of the Life Cycle Assessment** LCA.no AS Dokka 6A, 1671 Kråkerøy, Norway	Phone: e-mail: web:	+47 916 50 916 post@lca.no www.lca.no
LCA.no	**Developer of EPD generator** LCA.no AS Dokka 6A, 1671 Kråkerøy, Norway	Phone: e-mail: web:	+47 916 50 916 post@lca.no www.lca.no
ECO PLATFORM EPD VERIFIED	ECO Platform ECO Portal	web: web:	www.eco-platform.org ECO Portal