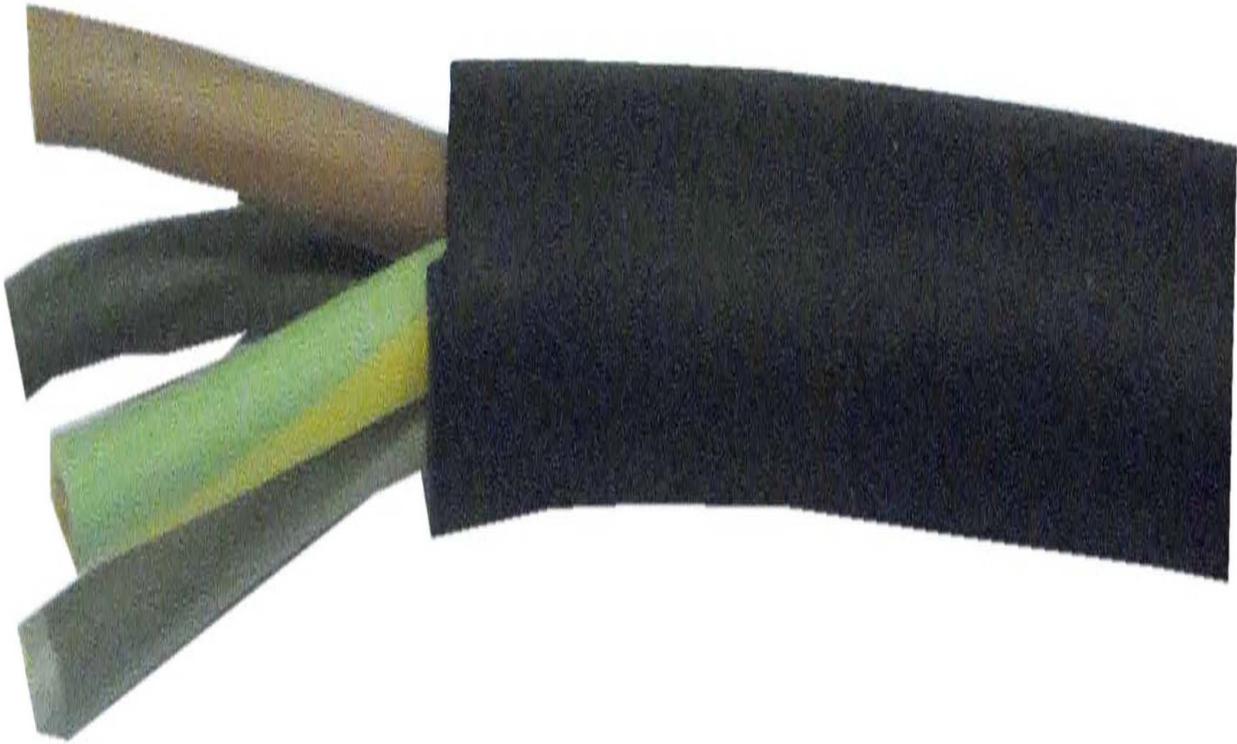


Environmental product declaration

in accordance with ISO 14025 and EN 15804+A2

TecFlex H07RN-F 3G2,5



TECCON

The Norwegian EPD Foundation

Owner of the declaration:

TECCON Norge AS

Product:

TecFlex H07RN-F 3G2,5

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-9735-9644

Registration number:

NEPD-9735-9644

Issue date:

10.04.2025

Valid to:

10.04.2030

EPD software:

LCAno EPD generator ID: 862826

General information

Product

TecFlex H07RN-F 3G2,5

Program operator:

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

Declaration number:

NEPD-9735-9644

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

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.

Declared unit:

1 m TecFlex H07RN-F 3G2,5

Declared unit with option:

A1, A2, A3, A4, A5, B1, B2, B3, B4, B5, B6, B7, C1, C2, C3, C4, D

Functional unit:

Cable and packaging

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

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)

Owner of the declaration:

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

Manufacturer:

TECCON Norge AS
Mekjarvik 18
4072 Randaberg, Norway

Place of production:

GENERAL CAVI S.P.A.
VIA Dell'Industria 22
48017 Lavezzola Conselice (RA), Italy

Management system:

Eco-lighthouse: 4247

Organisation no:

986 452 125

Issue date:

10.04.2025

Valid to:

10.04.2030

Year of study:

2024

Comparability:

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

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

Approved:



Håkon Hauan, CEO EPD-Norge

Product

Product description:

The Tec Flex H07RN-F cable guarantees a product of great suppleness offering excellent resistance to inclement environmental conditions and to oils & greases as well as adverse mechanical and thermal effects. This makes the product ideal for installation on equipment in continual and interrupted operation under aggressive conditions, (e.g. construction site vehicles, generators, pumps, etc.), as well as most other extreme and severe usage industrial applications. It can be safely be immersed in fresh- or sea water up to 100 meters depth and is approved by "Bureau VERITAS" for "Marine" applications.

This cable is suitable for dry, humid or wet environments in open air, in workshops with an explosive atmosphere. When used for connections they're subjected to medium/severe mechanical stress. It can be used even in fixed laying like floors and temporary construction site set offs. CPR Compliant 305/2011 EU

Special Features in addition to the features of the H07RN_F:

-Insulation tested up to +90°C. Includes the characteristics of the H07BN4-F cables and the H07BB-F cables.

Low Temperature Resistant (-40°C dynamic -50°C static).

-AD8 water resistance 10 bar such as the H07RN8-F.

-OZONE RESISTANT (Test A) and (Test B). UV Resistant.

AG2 Shock Resistant.

Excellent resistance to mineral oils, fats, AF3, and atmospheric agents AK2.

Resistance to alternate bending of sections ≤ 4 mm²: for at least 100000 cycles

Product specification

General: EN 50525--; ENB 50525-2-21

Materials	kg	%
Metal - Copper	0,072	37,89
Plastic - Polyethylene	0,11	62,10
Total	0,19	100,00

Packaging	kg	%
Packaging - Wood	0,02	100,00
Total incl. packaging	0,21	100,00

Technical data:

Construction standards: EN 50525--; ENB 50525-2-21

Conductor: Class 5 flexible copper EN60228

Insulation conductor: Elastomer mixture E14

Conductor marking Colored acc. Cenelec

Conductor laying SZ

Jacket Polycholoprene EM2

Marking H07RN.F xx G YY + Meter marking

Voltage - nominal U₀/U 450/750V

Voltage - test 2500V

Max Conductor temperature operation 90°

Max temperature at Short circuit 5s max 250°

Resistance insulation 1000M[?]*Km

Resistant to fire performance EN 50265-2-1; EN 60332-1-2

CPR EN 50575 compliance Eca

DoP 0270

Temperature - operation -40 to + 90

Temperature - installation -25 + 60

Bending radius 5 x D

Market:

Nordic

Reference service life, product

30Y+

Reference service life, building or construction works

30Y+

LCA: Calculation rules

Declared unit:

1 m TecFlex H07RN-F 3G2,5

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 - Wood	Modified ecoinvent 3.6	Database	2019
Plastic - Polyethylene	ecoinvent 3.6	Database	2019

Tec Flex H07RN-F 3G2,5 represent the maximum energy consumption from the product family below - from a production volume perspective as follow:

1043213 Tec Flex H07RN-F 3G1,5
 1043214 Tec Flex H07RN-F 3G2,5
 1043213 Tec Flex H07RN-F 4G1,5
 1043215 Tec Flex H07RN-F 4G2,5
 1043216 Tec Flex H07RN-F 4G4
 1043217 Tec Flex H07RN-F 4G6
 1043266 Tec Flex H07RN-F 5G1,5
 1043267 Tec Flex H07RN-F 5G2,5
 1043268 Tec Flex H07RN-F 5G4

1043209 Rubbercable H07RN-F 2x1,0
 1043210 Rubbercable H07RN-F 2x1,5
 1043211 Rubbercable H07RN-F 2x2,5
 1043219 Rubbercable H07RN-F 3G1,0
 1043220 Rubbercable H07RN-F 3G1,5
 1043221 Rubbercable H07RN-F 3G2,5
 1043222 Rubbercable H07RN-F 3G4
 1043223 Rubbercable H07RN-F 3G6
 1043229 Rubbercable H07RN-F 4G1
 1043230 Rubbercable H07RN-F 4G1,5
 1043231 Rubbercable H07RN-F 4G2,5
 1043232 Rubbercable H07RN-F 4G4
 1043233 Rubbercable H07RN-F 4G6
 1043272 Rubbercable H07RN-F 5G1,5
 1043273 Rubbercable H07RN-F 5G2,5
 1043274 Rubbercable H07RN-F 5G4

1043247 Antitwin H07RN-F 2x1,0
 1043246 Antitwin H07RN-F 2x1,5
 1043245 Antitwin H07RN-F 2x2,5
 1043249 Antitwin H07RN-F 3G1,0
 1043250 Antitwin H07RN-F 3G1,5
 1043251 Antitwin H07RN-F 3G2,5
 1043255 Antitwin H07RN-F 4G1,5
 1043256 Antitwin H07RN-F 4G2,5
 1043257 Antitwin H07RN-F 4G4
 1043258 Antitwin H07RN-F 4G6
 1043260 Antitwin H07RN-F 5G1,5
 1043261 Antitwin H07RN-F 5G2,5
 1043262 Antitwin H07RN-F 5G4

1039481 Onnline 3G1,5
 1039482 Onnline 3G2,5
 1039483 Onnline 4G1,5
 1039484 Onnline 4G2,5
 1039485 Onnline 4G4
 1039485 Onnline 4G6
 1039 xxx Onnline 5G1,5
 1039495 Onnline 5G2,5
 1039496 Onnline 5G4

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, wood, to average treatment - A5 including transport (kg)	kg	0,024			
Product loss during installation (percentage of cable)	Units/DU	0,020			
Operational energy (B6)		Unit	Value		
Electricity, Norway (kWh)	kWh/DU	0,32			
Transport to waste processing (C2)	Capacity utilisation (incl. return) %	Distance (km)	Fuel/Energy Consumption	Unit	Value (Liter/tonne)
Truck, 16-32 tonnes, EURO 6 (km)	36,7 %	300	0,043	l/tkm	12,90
Waste processing (C3)		Unit	Value		
Copper to recycling (kg)	kg	0,043			
Waste treatment of polyethylene (PE), incineration with energy recovery and fly ash extraction (kg)	kg	0,059			
Disposal (C4)		Unit	Value		
Landfilling of copper (kg)	kg	0,028			
Landfilling of plastic mixture (kg)	kg	0,059			
Landfilling of ashes from incineration of Polyethylene (PE), process per kg ashes and residues (kg)	kg	0,0025			
Landfilling of aluminium (kg)	kg/DU	0,0061			
Landfilling of ashes from incineration of Polyvinylchloride (PVC), process per kg ashes and residues (kg)	kg/DU	0,010			
Benefits and loads beyond the system boundaries (D)		Unit	Value		
Substitution of primary copper with net scrap (kg)	kg	0,074			
Substitution of electricity, in Norway (MJ)	MJ	1,66			
Substitution of thermal energy, district heating, in Norway (MJ)	MJ	18,13			

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	B1	B2	B3
	GWP-total	kg CO ₂ -eq	5,35E-01	3,59E-01	6,06E-02	3,46E-02	6,06E-02	0	0	0
	GWP-fossil	kg CO ₂ -eq	5,61E-01	3,58E-01	5,96E-02	3,45E-02	2,47E-02	0	0	0
	GWP-biogenic	kg CO ₂ -eq	-2,74E-02	1,46E-04	1,04E-03	1,43E-05	3,59E-02	0	0	0
	GWP-luluc	kg CO ₂ -eq	4,75E-04	1,32E-04	1,14E-05	1,23E-05	1,28E-05	0	0	0
	ODP	kg CFC11 -eq	3,30E-08	8,07E-08	8,10E-09	7,82E-09	2,71E-09	0	0	0
	AP	mol H+ -eq	1,73E-02	1,56E-03	3,22E-04	9,93E-05	3,92E-04	0	0	0
	EP-FreshWater	kg P -eq	1,40E-04	2,79E-06	1,89E-06	2,76E-07	2,91E-06	0	0	0
	EP-Marine	kg N -eq	1,23E-03	3,37E-04	4,16E-05	1,96E-05	3,52E-05	0	0	0
	EP-Terrestrial	mol N -eq	1,76E-02	3,76E-03	5,96E-04	2,20E-04	4,72E-04	0	0	0
	POCP	kg NMVOC -eq	4,99E-03	1,24E-03	1,37E-04	8,41E-05	1,36E-04	0	0	0
	ADP-minerals&metals ¹	kg Sb-eq	1,54E-04	9,53E-06	4,63E-07	9,54E-07	3,30E-06	0	0	0
	ADP-fossil ¹	MJ	1,28E+01	5,38E+00	8,70E-01	5,22E-01	4,01E-01	0	0	0
	WDP ¹	m ³	3,95E+01	5,03E+00	9,24E+00	5,05E-01	1,11E+00	0	0	0

Indicator		Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
	GWP-total	kg CO ₂ -eq	0	0	7,90E-03	0	0	1,05E-02	1,78E-01	9,92E-03	-2,91E-01
	GWP-fossil	kg CO ₂ -eq	0	0	7,65E-03	0	0	1,05E-02	1,78E-01	9,92E-03	-2,86E-01
	GWP-biogenic	kg CO ₂ -eq	0	0	2,12E-04	0	0	4,34E-06	1,44E-06	1,90E-06	-1,13E-03
	GWP-luluc	kg CO ₂ -eq	0	0	3,16E-05	0	0	3,73E-06	2,11E-07	6,57E-07	-3,82E-03
	ODP	kg CFC11 -eq	0	0	5,25E-10	0	0	2,38E-09	1,36E-10	5,03E-10	-7,66E-03
	AP	mol H+ -eq	0	0	5,98E-05	0	0	3,01E-05	2,23E-05	1,60E-05	-3,07E-02
	EP-FreshWater	kg P -eq	0	0	5,51E-07	0	0	8,38E-08	1,36E-08	5,32E-08	-2,10E-04
	EP-Marine	kg N -eq	0	0	6,57E-06	0	0	5,96E-06	1,07E-05	1,22E-05	-1,51E-03
	EP-Terrestrial	mol N -eq	0	0	8,56E-05	0	0	6,67E-05	1,16E-04	5,91E-05	-2,21E-02
	POCP	kg NMVOC -eq	0	0	2,30E-05	0	0	2,56E-05	2,77E-05	1,78E-05	-6,01E-03
	ADP-minerals&metals ¹	kg Sb-eq	0	0	5,71E-07	0	0	2,90E-07	6,23E-09	1,70E-08	-1,68E-04
	ADP-fossil ¹	MJ	0	0	1,04E-01	0	0	1,59E-01	1,16E-02	4,20E-02	-3,13E+00
	WDP ¹	m ³	0	0	1,82E+01	0	0	1,53E-01	2,64E-02	6,93E-01	-1,63E+01

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	B1	B2	B3	
PM	Disease incidence	5,11E-08	2,13E-08	1,24E-09	2,11E-09	1,58E-09	0	0	0	
IRP ²	kgBq U235 -eq	3,06E-02	2,35E-02	2,38E-03	2,28E-03	1,21E-03	0	0	0	
ETP-fw ¹	CTUe	2,01E+02	3,95E+00	7,65E-01	3,87E-01	4,57E+00	0	0	0	
HTP-c ¹	CTUh	3,64E-09	0,00E+00	2,00E-11	0,00E+00	7,40E-11	0	0	0	
HTP-nc ¹	CTUh	2,75E-07	4,33E-09	5,96E-10	4,23E-10	5,65E-09	0	0	0	
SQP ¹	dimensionless	5,00E+00	3,63E+00	3,43E-01	3,65E-01	1,94E-01	0	0	0	

Indicator	Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
PM	Disease incidence	0	0	4,29E-10	0	0	6,42E-10	8,70E-11	2,31E-10	-1,12E-07
IRP ²	kgBq U235 -eq	0	0	1,90E-03	0	0	6,93E-04	1,97E-05	2,32E-04	-1,23E-02
ETP-fw ¹	CTUe	0	0	4,76E-01	0	0	1,18E-01	3,48E-02	2,17E+01	-2,82E+02
HTP-c ¹	CTUh	0	0	2,30E-11	0	0	0,00E+00	4,00E-12	3,00E-12	-4,03E-09
HTP-nc ¹	CTUh	0	0	5,35E-10	0	0	1,28E-10	1,49E-10	1,19E-10	-3,40E-07
SQP ¹	dimensionless	0	0	5,26E-02	0	0	1,11E-01	1,41E-03	1,26E-01	-1,36E+01

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	B1	B2	B3	
PERE	MJ	1,37E+00	7,52E-02	2,72E-01	7,48E-03	3,48E-02	0	0	0	
PERM	MJ	3,33E-01	0,00E+00	0,00E+00	0,00E+00	-3,26E-01	0	0	0	
PERT	MJ	1,71E+00	7,52E-02	2,72E-01	7,48E-03	-2,92E-01	0	0	0	
PENRE	MJ	8,26E+00	5,38E+00	8,70E-01	5,22E-01	3,09E-01	0	0	0	
PENRM	MJ	5,01E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0	0	
PENRT	MJ	1,33E+01	5,38E+00	8,70E-01	5,22E-01	3,09E-01	0	0	0	
SM	kg	1,22E-02	0,00E+00	0,00E+00	0,00E+00	2,44E-04	0	0	0	
RSF	MJ	4,28E-02	2,67E-03	4,77E-02	2,67E-04	1,87E-03	0	0	0	
NRSF	MJ	3,14E-03	9,43E-03	2,55E-04	9,56E-04	3,38E-04	0	0	0	
FW	m ³	1,00E-02	5,62E-04	9,29E-04	5,58E-05	2,38E-04	0	0	0	

Indicator	Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	0	0	1,35E+00	0	0	2,27E-03	3,42E-04	3,72E-03	-1,05E+01
PERM	MJ	0	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	0	0	1,35E+00	0	0	2,27E-03	3,42E-04	3,72E-03	-1,05E+01
PENRE	MJ	0	0	1,05E-01	0	0	1,59E-01	1,16E-02	4,20E-02	-3,13E+00
PENRM	MJ	0	0	0,00E+00	0	0	0,00E+00	-5,01E+00	0,00E+00	0,00E+00
PENRT	MJ	0	0	1,05E-01	0	0	1,59E-01	-5,00E+00	4,20E-02	-3,13E+00
SM	kg	0	0	0,00E+00	0	0	0,00E+00	0,00E+00	3,09E-05	5,19E-02
RSF	MJ	0	0	1,06E-03	0	0	8,12E-05	9,64E-06	8,29E-05	2,89E-03
NRSF	MJ	0	0	2,65E-03	0	0	2,90E-04	0,00E+00	5,04E-04	-5,41E-01
FW	m ³	0	0	1,01E-02	0	0	1,70E-05	3,29E-05	4,77E-05	-1,95E-02

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	B1	B2	B3	
	HWD	kg	4,19E-03	2,75E-04	8,43E-05	2,69E-05	1,80E-04	0	0	0
	NHWD	kg	1,53E-01	2,51E-01	4,06E-03	2,54E-02	3,48E-02	0	0	0
	RWD	kg	2,74E-05	3,67E-05	2,36E-06	3,56E-06	1,40E-06	0	0	0

Indicator	Unit	B4	B5	B6	B7	C1	C2	C3	C4	D	
	HWD	kg	0	0	6,71E-05	0	0	8,18E-06	0,00E+00	4,41E-03	-2,11E-03
	NHWD	kg	0	0	8,05E-03	0	0	7,71E-03	0,00E+00	1,05E-01	-1,24E-01
	RWD	kg	0	0	9,36E-07	0	0	1,08E-06	0,00E+00	2,14E-07	-1,00E-05

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	B1	B2	B3	
	CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0	0	0
	MFR	kg	0,00E+00	0,00E+00	2,54E-03	0,00E+00	9,15E-04	0	0	0
	MER	kg	0,00E+00	0,00E+00	2,90E-04	0,00E+00	2,52E-02	0	0	0
	EEE	MJ	0,00E+00	0,00E+00	4,45E-04	0,00E+00	1,90E-02	0	0	0
	EET	MJ	0,00E+00	0,00E+00	6,74E-03	0,00E+00	2,87E-01	0	0	0

Indicator	Unit	B4	B5	B6	B7	C1	C2	C3	C4	D	
	CRU	kg	0	0	0,00E+00	0	0	0,00E+00	0,00E+00	0,00E+00	0,00E+00
	MFR	kg	0	0	0,00E+00	0	0	0,00E+00	4,32E-02	5,35E-06	-2,03E-03
	MER	kg	0	0	0,00E+00	0	0	0,00E+00	5,90E-02	9,10E-07	-2,68E-04
	EEE	MJ	0	0	0,00E+00	0	0	0,00E+00	1,14E-01	1,53E-05	-6,56E-04
	EET	MJ	0	0	0,00E+00	0	0	0,00E+00	1,73E+00	2,32E-04	-9,92E-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	9,92E-03

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, Italy (kWh)	ecoinvent 3.6	426,14	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	B1	B2	B3	
GWPIOBC	kg CO ₂ -eq	5,58E-01	3,59E-01	6,61E-02	3,46E-02	2,48E-02	0	0	0	
Indicator	Unit	B4	B5	B6	B7	C1	C2	C3	C4	D
GWPIOBC	kg CO ₂ -eq	0	0	7,88E-03	0	0	1,05E-02	1,78E-01	1,01E-02	-1,95E-01

GWPI-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.

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