Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2022 for:

Seamless Tubes

from

NOVÁ HUŤ s.r.o.

NOVÁ HUŤ

Programme:	"National Environmental Labelling Program" - Czech Republic (NPEZ)
Programme operator:	Ministry of the Environment of the Czech Republic, CENIA, Czech Environmental Information Agency, executive function of the NPEZ Agency
EPD type:	EPD of multiple products from given company – average product
EPD registration number:	**7260004**
Publication date:	2026-11-03
Valid until:	2031-11-02

An EPD should provide current information and may be updated if conditions change.



General information

Programme information

Programme:	"National Environmental Labelling Program" - Czech Republic (NPEZ)
Address:	Ministry of the Environment of the Czech Republic Department of Voluntary Instruments 100 10 Praha 10, Vršovická 1442/65
Website:	www.mzp.cz, https://www.ekoznacka.cz/databaze-epd-v-cr/
E-mail:	info@mzp.cz

Accountabilities for PCR, LCA and independent, third-party verification
Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)
Product Category Rules (PCR): **Sustainability of construction works – Environmental product declarations - Core rules for the product category of construction products,** ČSN EN 15804+A2 serves as basic PCR
Life Cycle Assessment (LCA)
LCA accountability: ***The Technical and Test Institute for Construction Prague, SOE, branch Ostrava, U Studia 14, 700 30 Ostrava***
Third-party verification
Independent third-party verification of the declaration and data, according to ISO 14025:2006, via: ☒ EPD verification by accredited verifier Third-party verification: ***Elektrotechnický zkušební ústav, s. p.*** is an approved verifier accountable for the third-party verification. Pod lisem 129/2, Troja, 182 00 Prague 8, CZ The verifier is accredited by: ***Českým institutem pro akreditaci, o.p.s., Certificate no. 522/2023***
Procedure for follow-up of data during EPD validity involves third party verifier: ☐Yes ☒No

This document is a translation of the EPD issued in Czech. In cause of doubt use the Czech version of this EPD as a reference.

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, **may not be comparable**. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterisation factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804 and ISO 14025.

Company information

Owner of the EPD:

NOVÁ HUŤ s.r.o.

Vratimovská 689/117, Kunčice
719 00 Ostrava, Czech republic

Contact:
Bc. Radim Vyka

Description of the organisation:

NOVÁ HUŤ s.r.o. produces more than 800,000 tonnes of steel products annually, which are used primarily in the construction and engineering sectors. It is the largest manufacturer of road crash barriers and steel tubes in the Czech Republic. In addition to the domestic market, it supplies its products to more than 40 countries worldwide.

Product-related or management system-related certifications:

Product quality is ensured by an effective quality management system in accordance with EN ISO 9001 and complies with the technical regulations applicable to the type of product. The manufacturer has implemented and certified an environmental management system to EN ISO 14001, an energy management system to EN ISO 50001 and an occupational health and safety management system to ISO 45001.

The Tube Mill plant holds certificates from leading external certification bodies, including Lloyd's Register EMEA (1988), Bureau Veritas (1992) and DNV (1996), amongst others. Pipes intended for pressure equipment have been certified in accordance with the European PED Directive 2014/68/EU by TÜV NORD since 2001. Pipes for construction purposes are certified in accordance with the Construction Products Regulation (CPR) (EU) No 305/2011.

Name and location of production site(s):

NOVÁ HUŤ s.r.o.
Vratimovská 689/117, Kunčice
719 00 Ostrava, CZ

Product information

Product name:

Seamless Tubes

Product identification:

Seamless steel tubes with a diameter of 21.3–273.0 mm and a wall thickness of 2.3–25.0 mm.

Product description:

Seamless tubes are manufactured from purchased continuously cast billets. The billets are first cut to size and heated to rolling temperature, after which a cavity is formed using a piercing machine. This is followed by drawing and rolling the hollow semi-finished product to the required diameter and wall thickness. The tubes are then cooled and straightened, and any non-conforming ends are trimmed off. Following dimensional inspection, they may undergo heat treatment as required, are subjected to non-destructive testing and a hydrostatic pressure test, and, where necessary, are fitted with threads, sockets or bevels, marked, preserved with a protective coating, fitted with end caps, bundled and dispatched.

The Tube Mill plant is the largest tube manufacturer in the Czech Republic. Seamless tubes are rolled on two Stiefel lines in the form of plain-end, threaded and oilfield tubes. Tubes on the St 4–10" and St 140 lines are manufactured exclusively from continuously cast billets. The most demanding products are seamless oilfield tubes – casing, production and oil transport tubes. Since 1957, the plant has been

authorised to mark oilfield tubes with the American Petroleum Institute (API) monogram. In addition to standard API threads, the plant also supplies casing and production pipes with gas-tight threaded joints. Specific information on design data and mechanical and chemical properties can be found in the relevant literature and/or in the following standards:

- API Spec 5L – Specification for Line Pipe
- API 5CT – Specification for Casing and Tubing
- ISO 3183 – Steel pipe for pipeline transportation systems
- ASTM A106 (ASME SA106) – Standard Specification for Seamless Carbon Steel Pipe for High-Temperature Service
- ASTM A192 (ASME SA192) – Standard Specification for Seamless Carbon Steel Boiler Tubes for High-Pressure Service
- ASTM A210 (ASME SA210) – Standard Specification for Seamless Medium-Carbon Steel Boiler and Superheater Tubes
- ASTM A333 (ASME SA333) – Standard Specification for Seamless and Welded Steel Pipe for Low-Temperature Service
- ASTM A335 (ASME SA335) – Standard Specification for Seamless Ferritic Alloy-Steel Pipe for High-Temperature Service
- ASTM A53 (ASME SA53) – Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless
- ASTM A501 (ASME SA501) – Standard Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing
- ASTM A519 (ASME SA519) – Standard Specification for Seamless Carbon and Alloy Steel Mechanical Tubing
- ČSN 42 0251 – Seamless steel tubes with guaranteed properties at elevated temperatures. Technical delivery requirements
- EN 10208-1, -2 – Steel tubes for pipelines for combustible fluids
- EN 10216-1, -2, -3, -4 – Seamless steel tubes for pressure purposes
- EN 10210-1, -2 – Hot finished structural hollow sections of non-alloy and fine grain steels
- EN 10224 – Non-alloy steel tubes and fittings for the conveyance of water and other aqueous liquids
- EN 10225 – Weldable structural steels for fixed offshore structures
- EN 10297-1 – Seamless steel tubes for mechanical and general engineering purposes
- EN 10255 – Non-alloy steel tubes suitable for threading
- ČSN 42 0250 – Hot formed seamless tubes from steels class 10 to 16. Technical delivery requirements
- ČSN 42 0165 – Sheets and pipes of ferritic-perlitic steels with guaranteed impact properties at low temperatures. Technical delivery requirements
- ČSN 42 5710, ČSN 42 5711 – Steel tubes suitable to screwing (medium and heavy series) Dimensions
- DIN 1629 – Seamless circular tubes of non-alloy steels with special quality requirements
- DIN 1630 – Seamless circular tubes of non-alloy steels for higher requirements
- DIN 17121 – Seamless structural steel tubes for structural engineering purposes
- DIN 17175 – Seamless steel tubes for elevated temperatures (quality grade I)
- DIN 2440, DIN 2441 – Steel tubes (medium and heavy series) suitable for threading
- NF A 49-115 – Hot-rolled seamless steel tubes suitable for threading

Intended use:

- for construction purposes
- for pressure equipment
- for the oil industry
- for mechanical engineering and general technical applications

Life expectancy:

The reference service life (RSL) for seamless tubes is not declared.

UN CPC code:
41281 - Line pipe of a kind used for oil or gas pipelines, seamless, of steel
41282 - Casing, tubing and drill pipe, of a kind used in the drilling for oil or gas, seamless, of steel
41283 - Other tubes and pipes, of circular cross-section, seamless

Geographical scope:
The generic data used from the Ecoinvent database are used with validity for the Czech Republic (e.g. energy inputs) and if data for the Czech Republic are not available, data valid for the EU or according to the location of the supplier are used. Based on the evaluation according to EN 15804+A2, Annex E, tab. E.1 the generic data used meet the quality level - medium.

Product packaging:
The products are supplied in accordance with the standards specified in the product description. The majority of the products are transported individually by lorry, with the individual parts securely fastened. Wooden spacers are typically used; the ends of the pipes are fitted with polyethylene caps, and the pipes are secured with steel straps.

Environment and health during use
No special health protection measures beyond the legally specified industrial protection measures for production workers are required throughout the production process. Due to the areas of application of the product, no environmental impacts and no emissions to water, air or soil are expected.

LCA information

Functional unit / declared unit:

The declared unit is 1 t of the average manufactured product – Seamless Tubes

Designation	Unit	Value
Declared unit	t	1
Conversion factor to 1 kg	kg	1000
Average bulk weight	kg/m^3	7850

Reference service life:

The reference service life (RSL) for seamless tubes is not declared. This is a product with many different application purposes. The service life is limited by the service life of the relevant structural and technological units.

Time representativeness:

For specific data, the manufacturer's data for the year **2025** is used. For generic data, data from the Ecoinvent database version 3.12 is used. Based on the evaluation according to EN 15804+A2, Annex E, tab. E.1 the generic data used meet the quality level - very good.

Database(s) and LCA software used:

The source of input data was operational data obtained from the organization recorded in the MES and SAP information system, as well as outputs from monitoring and measurement of waste production and emissions.

One Click LCA EPD Generator for EPD Hub V3 calculation software (EF 3.1), Ecoinvent database version 3.12.

GWP - total from electricity production: 0.51 kg CO2e / kWh (CZ residual mix)

Description of system boundaries:

Cradle to gate with modules C1–C4 and module D (A1–A3 + C + D)

The production phase includes the following modules:

- **A1,** extraction and processing of raw materials and production of packaging from input raw materials
- **A2,** transport of input raw materials from the supplier to the manufacturer, waste removal
- **A3,** production of products, production of auxiliary materials and semi-finished products, energy consumption, including waste processing until reaching a state where it ceases to be waste or after removal of the last material residues during the production phase.

The end-of-life phase includes modules:

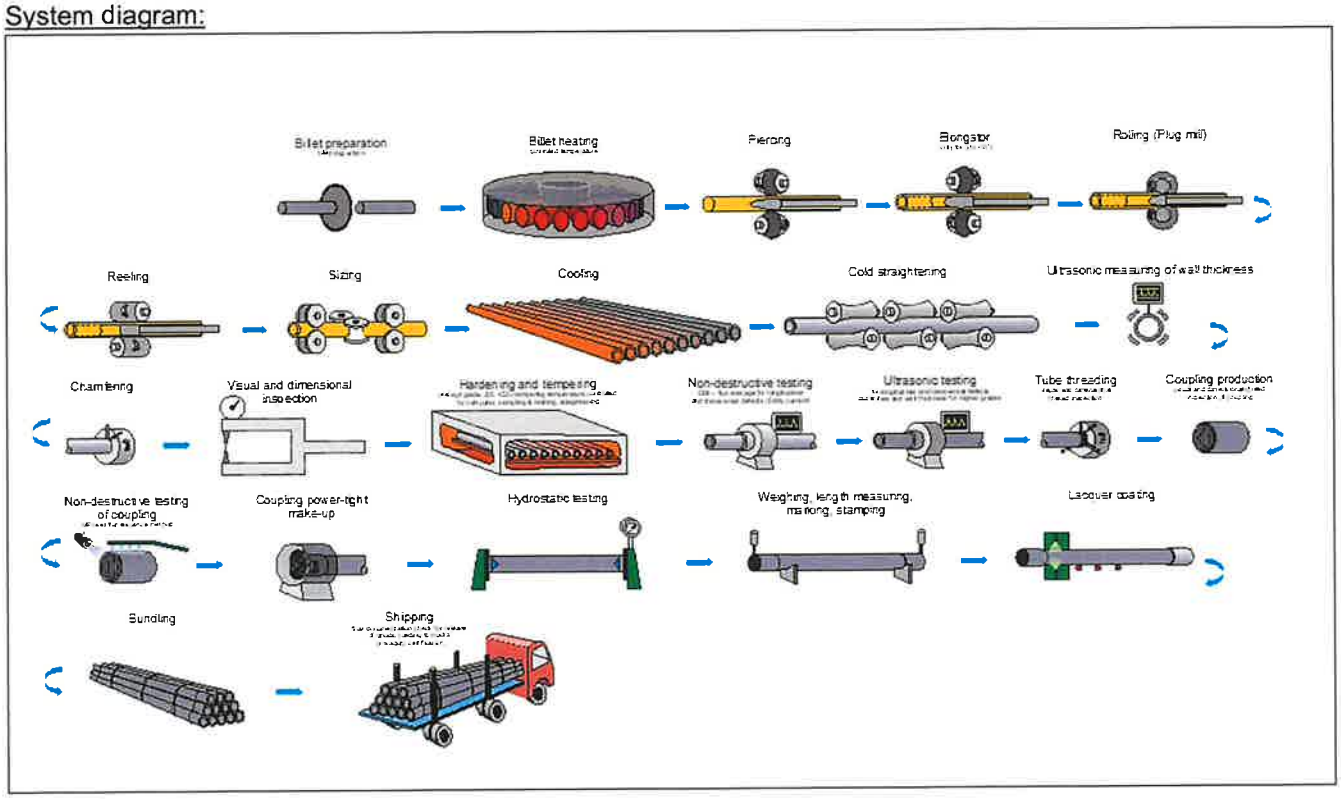
- **C1,** deconstruction, decomposition, dismantling and demolition of the product is not considered for this product due to the fact that it is a material with a homogeneous composition. In this case, it is assumed that the environmental impact in this module can be neglected (is zero).
- **C2,** transport to the waste treatment site; transport of the discarded product within the waste treatment, e.g. to the recycling site, and transport of the waste, e.g. to the final disposal site, is considered as transport to a recycling centre at a distance of 50 km and to a landfill at a distance of 25 km.
- **C3,** processing waste for recycling. A scenario where 70 % of the product can be recycled as scrap steel is envisaged.
- **C4,** waste disposal. A scenario is assumed where 30 % of the product is disposed of in landfill as inert waste.

Benefits and costs beyond the product system boundary are presented in module D.

Module D includes:

- **D,** the potential for reuse, recovery and/or recycling, expressed in terms of net impacts or benefits. In the Module D scenario, savings of primary raw material inputs (without considering transport and energy) in the same product system (steel production) are taken into account.

System diagram:



More information:

Information modules **A4** and **A5** from the construction phase were not included in the LCA due to the difficult availability of input data and is therefore not declared.

Information modules from the use phase **B1 to B7** are also not declared, as these types of products, assuming correct use, do not require maintenance, repair or replacement during the normal life time in the use phase. Those products also do not require energy or water consumption during the use phase.

For the study, all operational data related to the consumption of main and auxiliary materials for the production of the product, energy data, diesel consumption and the distribution of annual waste production and emissions according to plant records were taken. In terms of produced waste, only those wastes that are clearly related to production activities were included in the analysis.

The processes required for the installation of production equipment and the construction of infrastructure were not included in the analysis. Also, administrative processes are not included – inputs and outputs are balanced per production phase.

Modules declared, geographical scope, share of specific data (in GWP-GHG results) and data variation (in GWP-GHG results):

	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	x	x	x	x	x
Geography	GLO	GLO, EU	CZ										EU	EU	EU	EU	GLO, EU
Specific data used	71.7 %			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	0 %			-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	0 %			-	-	-	-	-	-	-	-	-	-	-	-	-	-

The data used to calculate the EPD conforms to the following principles:

Technological point of view: Data corresponding to the current production of individual types of partial products of the plant and corresponding to the current state of the technologies used are used.

Based on the evaluation according to EN 15804+A2, Annex E, tab. E.1 the generic data used meet the quality level - very good.

The aspect of completeness and completeness: Most of the input data is based on consumption balances, which are precisely recorded in the manufacturer's information system. The reliability of the source of specific data is determined by the uniformity of the collection methodology of the information system.

Consistency point of view: Uniform points of view are used throughout the report (allocation rules, age of data, technological scope of validity, temporal scope of validity, geographical scope of validity).

Credibility aspect: All important data were checked for adherence to cross-comparison of mass balances.

Content information

Product components	Weight %	Post-consumer material weight %	Biogenic carbon content in kg C/DU
Steel	100	68.2	0
TOTAL	100	68.2	0
Packaging materials	**Weight %**	**Weight-% (versus the product)**	**Biogenic carbon content in kg C/DU**
Wooden spacers	78.92	0.46	2.07
Strapping bands – steel	12.77	0.07	0.00
PE plastic caps	8.32	0.05	0.00
TOTAL	100.00	0.59	2.07

Dangerous substances from the candidate list of SVHC for Authorisation	EC No.	CAS No.	Weight-% per functional or declared unit (DU)
They are not	-	-	-

Substances listed on the list of substances of very high concern subject to authorization by the European Chemicals Agency are not contained in the product in declarable quantities.

NOVÁ HUŤ

Results of the environmental performance indicators

Mandatory impact category indicators according to EN 15804:2012+A2:2022 (characterisation factors based on EF 3.1 package)

Results per functional or declared unit

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-fosil	kg CO_2 eq.	1.92E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.07E+01	1.53E+01	1.87E+00	-2.95E+02
GWP-biogenic	kg CO_2 eq.	-1.39E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	4.29E-03	1.16E+01	-5.96E-04	1.54E-01
GWP- luluc	kg CO_2 eq.	9.84E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	4.37E-03	1.26E-02	1.07E-03	-1.28E-01
GWP - total	kg CO_2 eq.	1.92E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.07E+01	2.68E+01	1.87E+00	-2.95E+02
ODP	kg CFC 11 eq.	2.50E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.58E-07	1.03E-07	5.42E-08	-1.47E-06
AP	mol H^+ eq.	6.21E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	3.50E-02	6.76E-02	1.33E-02	-1.94E+00
EP-freshwater	kg P eq.	3.96E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.09E-03	5.98E-03	1.54E-04	-6.30E-02
EP- marine	kg N eq.	2.33E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.13E-02	3.19E-02	5.06E-03	-4.70E-01
EP - terrestrial	mol N eq.	1.73E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.22E-01	1.78E-01	5.53E-02	-5.30E+00
POCP	kg NMVOC eq.	5.38E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	4.88E-02	5.29E-02	1.98E-02	-2.03E+00
ADP- minerals& metals*	kg Sb eq.	4.11E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	3.65E-05	2.75E-04	2.98E-06	-1.86E-04
ADP-fosil*	MJ	2.22E+04	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.46E+02	1.14E+02	4.60E+01	-2.02E+03
WDP*	m^3	2.57E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	7.29E-01	3.58E+00	1.33E-01	-2.05E+01

Acronyms	**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

** Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as there is limited experience with the indicator.*

NOVÁ HUŤ

Additional mandatory and voluntary impact category indicators

Results per functional or declared unit															
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG[1]	kg CO_2 eq.	1.92E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.07E+01	1.53E+01	1.87E+00	-2.95E+02
PM	Disease incidence	7.36E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	7.28E-07	1.21E-06	3.02E-07	-3.53E-05
IRP	kBq U235 eq.	2.74E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.31E-01	1.64E+00	2.89E-02	-7.60E+00
ETP- fw	CTUe	3.47E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	3.37E+01	1.91E+02	3.86E+00	-1.16E+04
HTP-c	CTUh	5.15E-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.63E-09	1.75E-08	3.45E-10	-2.58E-07
HTP- nc	CTUh	1.47E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	8.39E-08	4.34E-07	7.93E-09	-1.45E-06
SQP	dimensionless	3.62E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	7.49E+01	5.96E+02	9.05E+01	-5.05E+02
Acronyms	**GWP-GHG** = this indicator includes all greenhouse gases except biogenic uptake and emissions of carbon dioxide and biogenic carbon stored in the product; as such the indicator is identical to GWP-total except that the CF for biogenic CO 2 is set to zero, **PM** = Potential incidence of disease due to PM emissions, **IRP** = Potential Human exposure efficiency relative to U235, **ETP-fw** = Potential Comparative Toxic Unit for ecosystems, **HTP-c** = Potential Comparative Toxic Unit for humans, **HTP-nc** = Potential Comparative Toxic Unit for humans, **SQP** = Potential soil quality index														

[1] *This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO_2 is set to zero.*

NOVÁ HUŤ

Resource use indicators

Results per functional or declared unit															
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	1.70E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	2.24E+00	2.16E+01	4.44E-01	-9.58E+01
PERM	MJ	6.36E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	1.77E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	2.24E+00	2.16E+01	4.44E-01	-9.58E+01
PENRE	MJ	2.40E+04	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.46E+02	1.14E+02	4.60E+01	-2.02E+03
PENRM	MJ	6.83E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	2.41E+04	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.46E+02	1.14E+02	4.60E+01	-2.02E+03
SM	kg	9.49E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	6.14E-02	2.18E-01	1.16E-02	-5.31E-01
RSF	MJ	7.33E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	7.32E-04	1.70E-02	2.39E-04	-3.84E-03
NRSF	MJ	3.76E-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m^3	2.52E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.79E-02	5.80E-02	4.78E-02	-5.51E-01

Acronyms	**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 re-sources; **SM** = Use of secondary material; **RSF** = Use of renewable secondary fuels; **NRSF** = Use of non-renewable secondary fuels; **FW** = Use of net fresh water

NOVÁ HUŤ

Additional environmental information - Waste indicators

Results per functional or declared unit															
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	5.71E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	9.33E-01	1.62E+00	5.08E-02	-1.26E+01
Non-hazardous waste disposed	kg	2.34E+03	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	1.20E+01	9.15E+01	1.16E+00	-3.48E+02
Radioactive waste disposed	kg	4.72E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	3.15E-05	4.19E-04	7.04E-06	-1.91E-03

Additional environmental information - Output flow indicators

Results per functional or declared unit																
Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Material for recycling	kg	2.18E+02	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	7.00E+02	0.00E+00	0.00E+00
Materials for energy recovery	kg	4.62E-04	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, electricity	MJ	6.90E-01	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy, thermal	MJ	0.00E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

The result tables shall only contain values or the letters "ND" (Not Declared). It is not possible to specify ND for mandatory indicators. ND shall only be used for voluntary parameters that are not quantified because no data is available.

Additional environmental information

-

Aggregation of information modules

The indicators declared in the individual product life cycle information modules A1 to A5, B1 to B7, C1 to C4 and module D, as described in the table on page 7, shall never be combined in any combination of individual information modules into a final sum or sub-sum of life cycle phases (allowed for A1-A3).

References

ČSN ISO 14025:2010 Environmentální značky a prohlášení - Environmentální prohlášení typu III - Zásady a postupy (Environmental labels and declarations - Type III environmental declarations - Principles and procedures)

ČSN EN 15804+A2:2022 Udržitelnost staveb - Environmentální prohlášení o produktu - Zásadní pravidla pro produktovou kategorii stavebních výrobků (Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products)

ČSN EN ISO 14040:2006 Environmentální management - Posuzování životního cyklu - Zásady a osnova (Environmental management - Life Cycle Assessment - Principles and Framework)

ČSN EN ISO 14044:2006 Environmentální management - Posuzování životního cyklu – Požadavky a směrnice (Environmental management - Life Cycle Assessment – Requirements and guidelines)

ČSN ISO 14063:2020 Environmentální management - Environmentální komunikace - Směrnice a příklady (Environmental management - Environmental communication - Guidelines and examples)

ČSN EN 15643:2022 Udržitelnost ve výstavbě - Rámec pro posuzování budov a inženýrských staveb (Sustainability of construction works - Framework for assessment of buildings and civil engineering works)

ČSN EN 15942:2023 Udržitelnost staveb - Environmentální prohlášení o produktu - Formát komunikace mezi podniky (Sustainability of construction works - Environmental product declarations - Communication format business-to-business)

ČSN EN 15941:2024 Udržitelnost staveb - Kvalita dat pro environmentální hodnocení výrobků a stavebních prací - Výběr a využití dat (Sustainability of construction works - Data quality for environmental assessment of products and construction work - Selection and use of data)

ČSN EN 17672:2023 Udržitelnost staveb - Environmentální prohlášení o produktu - Pravidla pro komunikaci mezi dodavatelem a zákazníkem (Sustainability of construction works - Environmental product declarations - Horizontal rules for business-toconsumer communication)

ČSN EN 16449:2014 Dřevo a výrobky na bázi dřeva - Výpočet obsahu biogenního uhlíku ve dřevě a přeměny na oxid uhličitý (Wood and wood-based products - Calculation of the biogenic carbon content of wood and conversion to carbon dioxide)

ILCD handbook - JRC EU, 2011

Zákon č. 541/2020 Sb. v platném znění (Zákon o odpadech); Act No. 541/2020 Coll., as amended (Waste Act)

Vyhláška č. 8/2021 Sb. Katalog odpadů – Katalog odpadů, (Decree No. 8/2021 Coll. Waste catalogue – Waste catalogue)

Nařízení Evropského parlamentu č. 1907/2006 o registraci, hodnocení, povolování a omezování chemických látek a o zřízení Evropské agentury pro chemické látky - REACH (registrace, evaluace a autorizace chemických látek); (Regulation (EC) No 1907/2006 of the European Parliament concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and establishing a European Chemicals Agency - REACH (Registration, Evaluation and Authorisation of Chemicals)

Nařízení Evropského parlamentu a Rady (ES) č. 1272/2008 o klasifikaci, označování a balení látek a směsí, o změně a zrušení směrnic 67/548/EHS a 1999/45/ES a o změně nařízení (ES) č. 1907/2006 (nařízení CLP),

One Click LCA | Life cycle assessment software & EPD platform, www.oneclicklca.com

Ecoinvent Centre, www.Ecoinvent.org
MES, SAP – informační systém výrobce
Vysvětlující dokumenty jsou k dispozici u vedoucího Technické podpory vlastníka EPD.

Verification EPD

Independent verification of the declaration and data according to ČSN ISO 14025:2010			
CEN standard EN 15804+A2 CEN serves as the core PCR[a]			
☐	internal	☐	external
Third party verifier[b]:			
Elektrotechnický zkušební ústav, s. p. Pod lisem 129/2 Troja, 182 00 Prague 8 Czech Republic ezú elektrotechnický zkušební ústav		**Ing. Radek Teufl** *Deputy Head of the Certification Body*	
Certification Body No. 3018 accredited by Czech Accreditation Institute, o.p.s. according to ČSN EN ISO/IEC 17065:2013, certificate No.: 522/2023			
[a] Product category rules [b] Optional for business-to-business communication, mandatory for business-to-consumer communication (see ISO 14025:2006,9.4)			

This document is a translation of the EPD issued in Czech. In cause of doubt use the Czech version of this EPD as a reference.

NOVÁ HUŤ	**Organization:** NOVÁ HUŤ s.r.o. Vratimovská 689/117, Kunčice 719 00 Ostrava	Tel: +420 606 771 184 Web: www.novahut.cz
	Programme holder: Ministry of the Environment of the Czech Republic Vršovická 1442/65, 100 10 Praha 10	Tel: +420 267 121 111 Email: info@mzp.cz Web: www.mzp.cz
ZÚS®	**The document was processed by:** Technical and Testing Institute for Construction Prague, SOE, branch Ostrava U Studia 14 700 30 Ostrava	Tel: +420 595 707 200 Email: sousedik@tzus.cz moler@tzus.cz Web: www.tzus.cz