

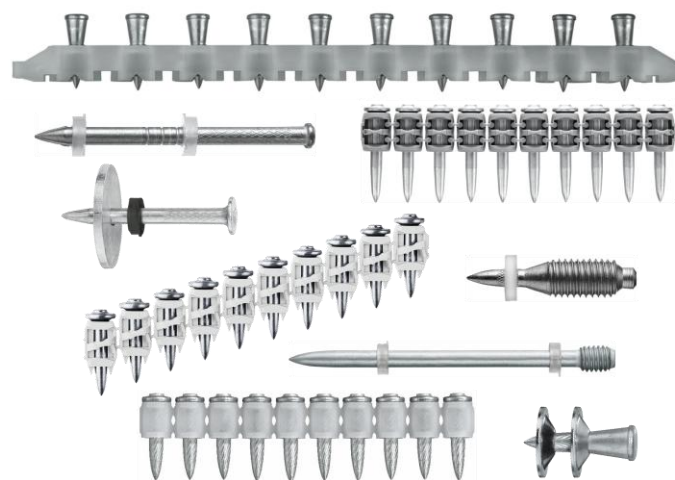


ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

Carbon Steel Nails & Studs

Hilti AG



EPD HUB, HUB-6692

Published on 17.06.2026, last updated on 17.06.2026, valid until 16.06.2031

Life Cycle Assessment study has been performed in accordance with the requirements of EN 15804, EPD Hub PCR version 1.2 (24 Mar 2025) and JRC characterization factors EF 3.1.



Created with One Click LCA



GENERAL INFORMATION

MANUFACTURER

Manufacturer	Hilti AG
Address	Feldkircherstrasse 100, FL-9494, Schaan, Liechtenstein
Contact details	sustainability@hilti.com
Website	www.hilti.group

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804:2012+A2:2019/AC:2021 and ISO 14025
PCR	EPD Hub Core PCR Version 1.2, 24 Mar 2025
Sector	Construction product
Category of EPD	Third party verified EPD
Parent EPD number	-
Scope of the EPD	Cradle to gate with options, A4-A5, and modules C1-C4, D
EPD author	Siti Nur Syaza Abdul Rahman, Hilti AG
EPD verification	Independent verification of this EPD and data, according to ISO 14025: ☐ Internal verification ☒ External verification
EPD verifier	Edis Glogic as an authorized verifier for EPD Hub

This EPD is intended for business-to-business and/or business-to-consumer communication. The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from

different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

PRODUCT

Product name	Carbon Steel Nails & Studs
Additional labels	-
Product reference	Refer appendix
Place(s) of raw material origin	Europe/China/Mexico
Place of production	Liechtenstein/China/Mexico
Place(s) of installation and use	Global
Period for data	Calendar year 2025
Averaging in EPD	Multiple products and multiple factories
Variation in GWP-fossil for A1-A3 (%)	+/- 1.13
GTIN (Global Trade Item Number)	-
NOBB (Norwegian Building Product Database)	-
A1-A3 Specific data (%)	4,14

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 kg of Carbon Steel Nails & Studs
Declared unit mass	1 kg
Mass of packaging	0,323 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	2,7
GWP-total, A1-A3 (kgCO ₂ e)	2,24
Secondary material, inputs (%)	31,2
Secondary material, outputs (%)	81,3
Total energy use, A1-A3 (kWh)	9,29
Net freshwater use, A1-A3 (m ³)	0,02

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

The Hilti Group supplies the worldwide construction and energy industries with technologically leading products, systems, software and services. With about 34,000 team members in over 120 countries the company stands for direct customer relationships, quality and innovation. The headquarters of the Hilti Group have been located in Schaan, Liechtenstein, since its founding in 1941. The company is privately owned by the Martin Hilti Family Trust, which ensures its long-term continuity. The Hilti Group's purpose is making construction better, based on a passionate and inclusive global team and a caring and performance-oriented culture.

PRODUCT DESCRIPTION

Hilti Carbon Steel Nails & Studs are specialized fasteners designed for high-performance anchoring and fastening into steel and concrete, offering excellent durability, corrosion resistance, and compatibility with Hilti's cordless direct fastening tools. They are widely used in construction, mechanical installations, and industrial applications where reliable penetration and holding power are critical.

Product Applications

Construction: Fastening steel plates, brackets, and profiles to structural steel.
Electrical & Mechanical Installations: Securing conduits, cable trays, and HVAC components.

Industrial Use: Anchoring lightweight machinery, equipment housings, and protective covers.

Interior Fit-Outs: Fixing drywall tracks, ceiling grids, and partition systems to steel substrates.

Technical Characteristics

Base Materials: Steel (minimum thickness 2.5 mm/0.1 inch (Micky nails) up to ~9 mm/0.35 inch (threaded studs with M10 or W10)

Corrosion Protection: Galvanized zinc coating (<20 µm) for durability

Shank Lengths: minimum 14 mm/0.55 inch (X-S 14 nails) up to max 117 mm/4.6 inch (X-C P8 nail)

Environmental Conditions: Designed for dry indoor use; specialized variants available for harsher environments.

Tool Compatibility: Hilti BX, GX or DX tools and/or R4DW-X air nailer.

Further information can be found at www.hilti.group

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	94,68	Europe/China/Mexico
Minerals	-	-
Fossil materials	5,32	Europe/China/Mexico
Bio-based materials	-	-

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	0
Biogenic carbon content in packaging, kg C	0.1312

FUNCTIONAL UNIT AND SERVICE LIFE

Declared unit	1 kg of Carbon Steel Nails & Studs
Mass per declared unit	1 kg
Functional unit	-
Reference service life	-

SUBSTANCES, REACH - VERY HIGH CONCERN

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

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

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

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

Not declared = ND.

MANUFACTURING AND PACKAGING (A1-A3)

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

A market-based approach is used in modelling the electricity mix utilized in the factory.

The carbon steel nails and studs portfolio comprises a range of specialized fasteners designed for high-performance fastening into steel and concrete substrates. Each unit consists of a galvanized low-carbon steel body. Most of the items contain a washer or strip made of PP or HDPE. The steel and plastic are sourced from suppliers located near the manufacturing plant in Liechtenstein, China and/or Mexico, where production processes and final assembly takes place. A conservative recycled content of 20% is assumed for the steel, although actual values may vary between 10% and 40% depending on sourcing conditions. The manufacturing process involves electricity consumption for cold forming, rolling/thermopulling, plating, tempering, and assembly operations. Packaging materials consist primarily of cardboard, which is used to secure the assembled connectors for transport to designated market locations. It is assumed that no energy or material losses occur during the manufacturing and construction phases. Ancillary materials are accounted for as part of the manufacturing waste and are excluded from the end-of-life stage assessment.

The use of green energy in manufacturing is demonstrated through contractual instruments (GOs, RECs, etc.), and its use is ensured throughout the validity period of this EPD.

TRANSPORT AND INSTALLATION (A4-A5)

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

Transportation distance is defined according to the PCR. A4 is based on a sales-weighted average transport distance from the production plant in Liechtenstein/China/Mexico within the region, estimated to be about 150-

1000km by truck, followed by shipment to the representative place of installation in the sales region (equating to 967km by truck and 5565km by container ship for this product due to its global distribution). Vehicle capacity utilization volume factor is assumed to be 1 which means full load. In reality, it may vary but as role of transportation emissions in total results is small, the variety in load is assumed to be negligible. To be conservative, empty returns are included in this study as implemented through an average load factor in the Ecoinvent transport datapoints. Transportation does not cause losses as products are packaged properly. Also, volume capacity utilization factor is assumed to be 1 for the nested packaged products. Disposal of the packaging, including some residual product within, is accounted for in A5. Emissions due to installation are assumed to be negligible as they are typically performed using simple manual tools which do not consume energy.

PRODUCT USE AND MAINTENANCE (B1-B7)

This EPD does not cover the use phase.

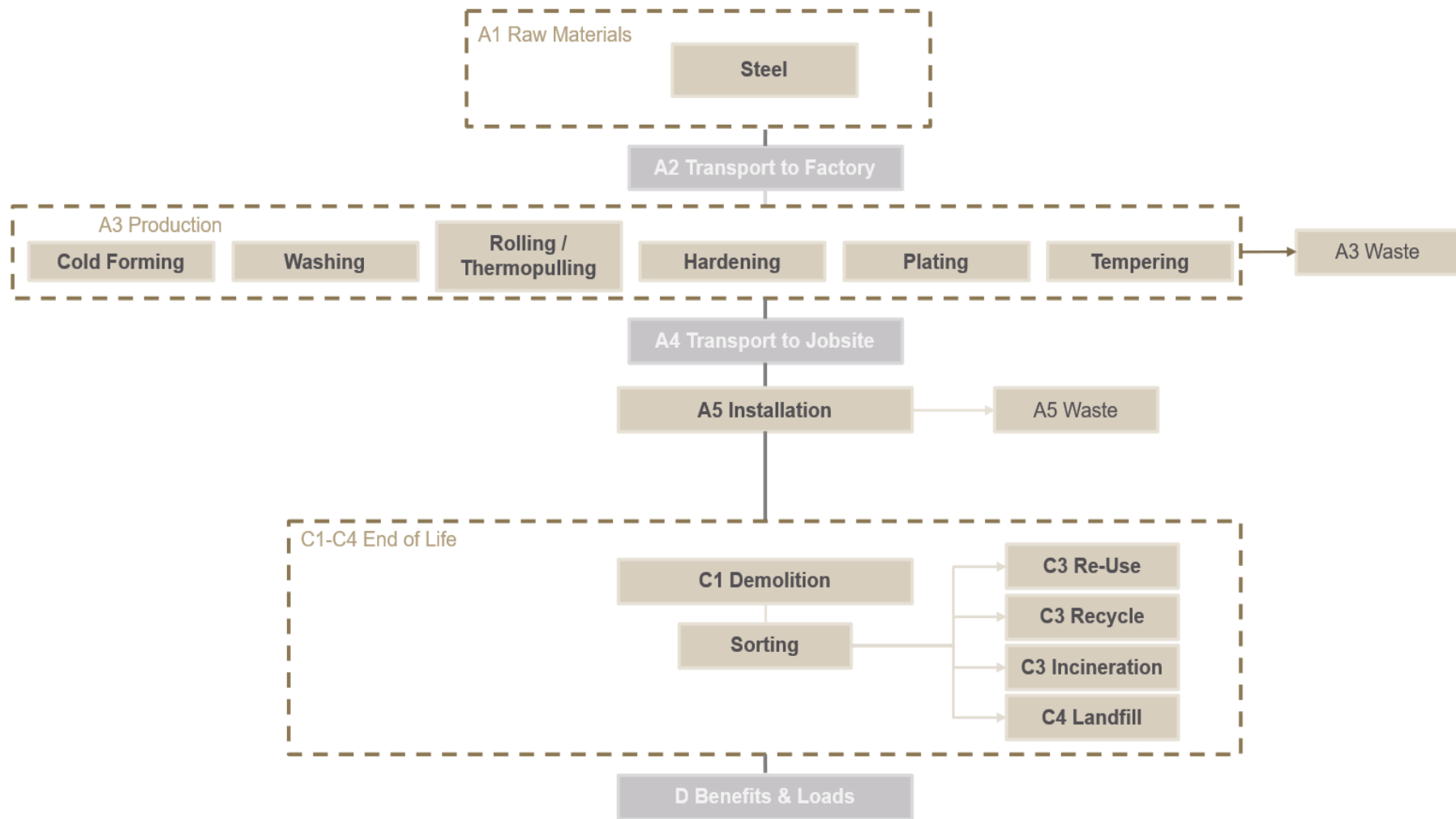
Air, soil, and water impacts during the use phase have not been studied.

PRODUCT END OF LIFE (C1-C4, D)

The product is considered to be dismantled by a power tool and energy use is estimated to be the same as in installation. It is assumed that the steel waste is collected separately and transported to the waste treatment facility. Transportation distance to waste treatment plant and to landfill is assumed to be 50 km, the transportation method is assumed to be lorry (C2). Module C3 accounts for energy and resource inputs for sorting and treating of steel for recycling. Landfilled material is included in module C4. Due to the material recovery potential of the product and material and energy recovery potential of its packaging, recycled raw materials lead to avoided virgin material production and the energy recovered from incineration replaces electricity and heat from primary sources. Benefits and loads from incineration and recycling are included in Module D. Recycling rate of steel is 85% and the

recycling rate of HDPE is 24% with 49% incinerated with energy recovery in the calculation is based on world average data published by World Steel Association and Plastic Europe. Actual recyclability may vary between regions.

SYSTEM DIAGRAM



LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

The production of capital equipment, construction activities, and infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy and water use related to company management and sales activities are excluded.

This LCA study includes the provision of all materials, transportation, and emission flows, and end-of-life processing of product. All industrial processes from raw material acquisition, pre-processing, production, product distribution, installation and end-of-life management are included. These include materials which are used in the product manufacturing only in very small amounts and have a negligible impact on the emissions of the product. The production of capital equipment, construction activities, infrastructure, maintenance and operation of capital equipment, personnel-related activities, energy and water use related to company management and sales activities are excluded.

VALIDATION OF DATA

Data collection for production, transport, and packaging was conducted using time and site-specific information, as defined in the general information section on page 1 and 2. Upstream process calculations rely on generic data as defined in the Bibliography section. Manufacturer-provided specific and

generic data were used for the product's manufacturing stage. The analysis was performed in One Click LCA EPD Generator, with the 'Cut-Off, EN 15804+A2' allocation method, and characterization factors according to EN 15804:2012+A2:2019/AC:2021 and JRC EF 3.1.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

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

Data type	Allocation
Raw materials	Physical properties
Packaging material	Physical properties
Ancillary materials	Not applicable
Manufacturing energy and waste	Physical properties

PRODUCT & MANUFACTURING SITES GROUPING

Type of grouping	Multiple products and multiple factories
Grouping method	Based on average results of product group - by total mass
Variation in GWP-fossil for A1-A3, %	+/- 1.13

The declared unit of 1 kg of Carbon Steel Nails & Studs represents the weighted average of the product group, calculated by total mass. Data has been consolidated from three Hilti manufacturing facilities located in

Liechtenstein, China and Mexico, ensuring representativeness of the grouping in accordance with EN 15804+A2 and PCR requirements. The product group covers the full portfolio of carbon steel nails and studs. Some of these items also contain a washer/strip made of HDPE or PP. The facilities were selected as representative sites based on production share and geographical coverage, thereby ensuring that the results reflect the typical performance of the product group.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator for EPD Hub V3 and EPD Process Certification v3.2.4. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10.1/3.11/3.12 and One Click LCA databases as sources of environmental data. Allocation used in Ecoinvent 3.10.1/3.11/3.12 environmental data sources follow the methodology 'allocation, Cut-off, EN 15804+A2'.

ENVIRONMENTAL IMPACT DATA

The estimated impact results are only relative statements which do not indicate the end points of the impact categories, exceeding threshold values, safety margins or risks.

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total ¹⁾	kg CO ₂ e	2,31E+00	8,25E-02	-1,53E-01	2,24E+00	2,13E-01	4,93E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,13E-02	1,01E-01	2,55E-03	-1,07E+00
GWP – fossil	kg CO ₂ e	2,30E+00	8,25E-02	3,18E-01	2,70E+00	2,13E-01	1,17E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,13E-02	1,01E-01	2,55E-03	-1,07E+00
GWP – biogenic	kg CO ₂ e	1,82E-03	1,61E-05	-4,81E-01	-4,79E-01	4,29E-05	4,81E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	9,02E-06	-3,98E-05	-1,16E-06	-5,00E-04
GWP – LULUC	kg CO ₂ e	1,45E-03	2,96E-05	9,93E-03	1,14E-02	1,02E-04	6,44E-06	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,83E-05	2,37E-05	6,02E-07	-1,73E-03
Ozone depletion pot.	kg CFC-11e	1,54E-08	1,62E-09	8,65E-09	2,57E-08	3,12E-09	1,18E-10	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,78E-10	2,60E-10	2,94E-11	-5,09E-09
Acidification potential	mol H ⁺ e	2,00E-02	2,59E-04	1,59E-03	2,18E-02	2,69E-03	4,73E-05	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,38E-04	2,29E-04	7,31E-06	-5,22E-03
EP-freshwater ²⁾	kg Pe	8,71E-04	5,52E-06	1,77E-04	1,05E-03	1,31E-05	2,61E-06	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,21E-06	1,20E-05	8,83E-08	-5,13E-04
EP-marine	kg Ne	2,40E-03	8,72E-05	6,22E-04	3,10E-03	7,06E-04	7,59E-05	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,46E-05	5,48E-05	6,07E-06	-9,76E-04
EP-terrestrial	mol Ne	6,85E-02	9,49E-04	4,15E-03	7,36E-02	7,80E-03	1,50E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,85E-04	6,02E-04	3,03E-05	-1,07E-02
POCP (“smog”) ³⁾	kg NMVOCe	7,55E-03	4,05E-04	1,10E-03	9,05E-03	2,35E-03	5,72E-05	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,92E-04	1,76E-04	1,12E-05	-3,70E-03
ADP-minerals & metals ⁴⁾	kg Sbe	4,83E-05	2,67E-07	2,09E-06	5,07E-05	4,57E-07	7,59E-08	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,35E-07	1,29E-06	1,74E-09	-7,10E-05
ADP-fossil resources	MJ	2,55E+01	1,16E+00	4,81E+00	3,15E+01	2,92E+00	1,07E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,79E-01	2,57E-01	2,49E-02	-1,06E+01
Water use ⁵⁾	m ³ e depr.	7,41E-01	5,70E-03	2,14E-01	9,60E-01	1,24E-02	2,94E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,69E-03	6,52E-03	7,89E-05	-3,11E-01

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO₄e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2, EF 3.1

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	2,99E-07	6,58E-09	2,68E-08	3,33E-07	1,60E-08	6,36E-10	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,29E-09	3,02E-09	1,66E-10	-6,83E-08
Ionizing radiation ⁶⁾	kBq CTUe	7,00E-02	1,45E-03	5,09E-02	1,22E-01	2,15E-03	7,03E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,70E-04	2,12E-03	1,69E-05	2,62E-02
Ecotoxicity (freshwater)	CTUe	1,89E+01	1,53E-01	2,66E+00	2,17E+01	3,51E-01	3,79E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	9,14E-02	1,64E-01	6,98E-03	-1,93E+01
Human toxicity, cancer	CTUh	2,95E-09	1,40E-11	1,26E-10	3,09E-09	3,87E-11	8,49E-12	ND	ND	ND	ND	ND	ND	ND	0,00E+00	7,01E-12	1,95E-11	2,43E-13	-5,71E-10
Human tox. non-cancer	CTUh	4,12E-08	7,30E-10	3,73E-09	4,57E-08	1,52E-09	4,51E-10	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,63E-10	1,23E-09	1,99E-11	-1,91E-08
SQP ⁷⁾	-	7,23E+00	7,18E-01	1,40E+01	2,20E+01	2,08E+00	7,89E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,51E-01	4,87E-01	5,03E-02	-3,34E+00

6) EN 15804+A2 disclaimer for Ionizing radiation, human health. This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator; 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy ⁸⁾	MJ	2,18E+00	1,98E-02	1,69E+00	3,90E+00	3,44E-02	-5,16E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	7,95E-03	4,63E-02	2,61E-04	-1,25E+00
Renew. PER as material	MJ	0,00E+00	0,00E+00	4,73E+00	4,73E+00	0,00E+00	-4,73E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	4,60E-03
Total use of renew. PER	MJ	2,18E+00	1,98E-02	6,42E+00	8,62E+00	3,44E-02	-9,89E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	7,95E-03	4,63E-02	2,61E-04	-1,24E+00
Non-re. PER as energy	MJ	2,35E+01	1,16E+00	4,82E+00	2,95E+01	2,92E+00	1,07E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,79E-01	-1,31E+00	-5,23E-01	-1,06E+01
Non-re. PER as material	MJ	2,02E+00	0,00E+00	6,04E-02	2,08E+00	0,00E+00	-6,04E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	-1,47E+00	-5,44E-01	5,50E-01
Total use of non-re. PER	MJ	2,55E+01	1,16E+00	4,88E+00	3,16E+01	2,92E+00	4,66E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,79E-01	-2,79E+00	-1,07E+00	-1,01E+01
Secondary materials	kg	3,12E-01	5,29E-04	2,53E-01	5,65E-01	1,29E-03	1,77E-04	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,60E-04	3,51E-04	6,65E-06	5,98E-01
Renew. secondary fuels	MJ	2,40E-04	6,68E-06	4,34E-02	4,37E-02	1,18E-05	9,97E-07	ND	ND	ND	ND	ND	ND	ND	0,00E+00	3,31E-06	1,42E-05	1,35E-07	-7,64E-05
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
Use of net fresh water	m ³	1,02E-02	1,57E-04	5,21E-03	1,55E-02	3,58E-04	-5,93E-05	ND	ND	ND	ND	ND	ND	ND	0,00E+00	7,70E-05	1,48E-04	-2,95E-05	-5,68E-03

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	8,18E-01	1,68E-03	2,36E-02	8,43E-01	4,61E-03	1,81E-03	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,01E-03	2,38E-03	2,98E-05	-3,14E-01
Non-hazardous waste	kg	8,22E+00	3,52E-02	6,72E-01	8,92E+00	7,91E-02	2,04E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,89E-02	8,90E-02	7,01E-02	-2,84E+00
Radioactive waste	kg	1,74E-05	3,61E-07	1,30E-05	3,08E-05	5,27E-07	1,79E-07	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,15E-07	5,44E-07	4,13E-09	6,74E-06

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	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	0,00E+00	2,70E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	8,13E-01	0,00E+00	0,00E+00
Materials for energy rec	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	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	1,26E-01	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	4,20E-01	0,00E+00	0,00E+00
Exported energy – Electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	5,20E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	1,80E-01	0,00E+00	0,00E+00
Exported energy –	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00	7,40E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	2,40E-01	0,00E+00	0,00E+00

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO ₂ e	2,29E+00	8,19E-02	3,34E-01	2,71E+00	2,12E-01	4,42E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,11E-02	1,01E-01	2,47E-03	-1,06E+00
Ozone depletion Pot.	kg CFC ₁₁ e	1,34E-08	1,29E-09	7,20E-09	2,19E-08	2,48E-09	9,69E-11	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,62E-10	2,14E-10	2,33E-11	-5,11E-09
Acidification	kg SO ₂ e	1,33E-02	1,97E-04	1,21E-03	1,47E-02	2,13E-03	3,62E-05	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,05E-04	1,83E-04	5,41E-06	-4,30E-03
Eutrophication	kg PO ₄ ³ e	4,22E-03	5,00E-05	6,02E-04	4,87E-03	2,82E-04	5,39E-05	ND	ND	ND	ND	ND	ND	ND	0,00E+00	2,56E-05	2,81E-05	2,00E-06	-1,29E-03
POCP ("smog")	kg C ₂ H ₄ e	9,34E-04	1,87E-05	1,08E-04	1,06E-03	1,20E-04	1,06E-05	ND	ND	ND	ND	ND	ND	ND	0,00E+00	9,44E-06	1,10E-05	7,44E-07	-5,53E-04
ADP-elements	kg Sbe	4,81E-05	2,61E-07	2,08E-06	5,04E-05	4,47E-07	7,44E-08	ND	ND	ND	ND	ND	ND	ND	0,00E+00	1,32E-07	1,29E-06	1,70E-09	-7,10E-05

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
ADP-fossil	MJ	2,44E+01	1,14E+00	3,88E+00	2,95E+01	2,89E+00	9,49E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	5,72E-01	2,20E-01	2,47E-02	-1,12E+01

ADDITIONAL INDICATOR – GWP-GHG

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG ⁹⁾	kg CO ₂ e	2,30E+00	8,25E-02	3,28E-01	2,72E+00	2,13E-01	1,17E-02	ND	ND	ND	ND	ND	ND	ND	0,00E+00	4,13E-02	1,01E-01	2,55E-03	-1,07E+00

9) This indicator includes all greenhouse gases excluding biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. In addition, the characterisation factors for the flows – CH₄ fossil, CH₄ biogenic and Dinitrogen monoxide – were updated. This indicator is identical to the GWP-total of EN 15804:2012+A2:2019 except that the characterisation factor for biogenic CO₂ is set to zero

SCENARIO DOCUMENTATION

DATA SOURCES

Manufacturing energy scenario documentation

1. Electricity production, photovoltaic, 570kWp open ground installation, multi-Si, Mexico, Ecoinvent, 0.0829 kgCO₂e/kWh
2. Electricity production, wind, 1-3MW turbine, onshore, zhejiang, Ecoinvent, 0.0245 kgCO₂e/kWh
3. Electricity production, wind, 1-3MW turbine, onshore, Austria, Ecoinvent, 0.0187 kgCO₂e/kWh

Transport scenario documentation - A4 (Transport resources)

1. Market for transport, freight, lorry >32 metric ton, EURO5, 967 km
2. Market for transport, freight, sea, container ship, 5565 km

Transport to the building site (A4) - Scenario documentation

Scenario parameter	Value
Capacity utilization (including empty return) %	50
Bulk density of transported products	7,49E+03
Volume capacity utilization factor	1

Installation at the building site (A5) - Scenario documentation

1. Folding boxboard carton production, EI 3.10.1, 0.097kg
2. Containerboard production, fluting medium, recycled, EI 3.10.1, 0.23kg
3. Treatment of waste paperboard, unsorted, sorting, EI 3.10.1, 0.27kg
4. Treatment of waste packaging paper, municipal incineration, EI 3.10.1, 0.026kg
5. Treatment of waste packaging paper, sanitary landfill, EI 3.10.1, 0.029kg
6. Exported Energy: Electricity, EI, 0.052MJ
7. Exported Energy: Thermal, EI, 0.074MJ

End of life (C1-C4) - Scenario documentation

1. Sorting and pressing of iron scrap, Ecoinvent, 0.805 kg
2. Treatment of waste steel, inert material landfill, Ecoinvent, 0.142 kg
3. Exported energy: Thermal, Ecoinvent, 0.24 MJ
4. Exported energy: Electricity, Ecoinvent, 0.18 MJ
5. Treatment of waste polyethylene, sanitary landfill, Ecoinvent, 0.014 kg
6. Treatment of waste polyethylene, municipal incineration, Ecoinvent, 0.026 kg
7. Treatment of waste polyethylene, recycling, unsorted, sorting, Ecoinvent, 0.013 kg

Scenario information	Value
Scenario assumptions e.g. transportation (mode, km) & other	Transported 50 km by truck to local recycling station

THIRD-PARTY VERIFICATION STATEMENT

EPD Hub declares that this EPD is verified in accordance with ISO 14025 by an independent, third-party verifier. The project report on the Life Cycle Assessment and the report(s) on features of environmental relevance are filed at EPD Hub. EPD Hub PCR and ECO Platform verification checklist are used.

EPD Hub is not able to identify any unjustified deviations from the PCR and EN 15804+A2 in the Environmental Product Declaration and its project report.

EPD Hub maintains its independence as a third-party body; it was not involved in the execution of the LCA or in the development of the declaration and has no conflicts of interest regarding this verification.

The company-specific data and upstream and downstream data have been examined as regards plausibility and consistency. The publisher is responsible for ensuring the factual integrity and legal compliance of this declaration.

The software used in creation of this LCA and EPD is verified by EPD Hub to conform to the procedural and methodological requirements outlined in ISO 14025:2010, ISO 14040/14044, EN 15804+A2, and EPD Hub Core Product Category Rules and General Program Instructions.

Verified tools

Tool verifier: Magaly Gonzalez Vazquez

Tool verification validity: 27 March 2025 - 26 March 2028

Edis Glogic as an authorized verifier for EPD Hub Limited 17.06.2026



APPENDIX

PRODUCT PORTFOLIO INCLUDED IN SCOPE

The following list of products are included in the scope of this declaration, as represented by averaging the Carbon Steel Nails and Studs portfolio.

Item number	Item designation	Weight [g]
2169368	Gas nail X-S 14 G2 MX	1.049
2323246	Threaded stud X-M6-8-62 DP7 SCT B3	6.366
2323247	Threaded stud X-M6-8-52 DP7 SCT B3	5.436
2323248	Threaded stud X-M6-8-87 DP7 SCT B3	8.506
46554	Universal nail EDS 19P10	2.9
46556	Universal nail EDS 22P10	3.27
306069	Threaded stud X-W6-20-27D12	6.74
306092	Threaded stud X-M8-15-27P8	10.466
306094	Threaded stud X-M8-15-42P8	10.436
306096	Threaded stud X-M8-20-32P8	12.896
26325	Threaded stud X-M8H/5-15-37 P8	11.636
306079	Threaded stud X-M6-20-27FP8	6.967
26413	Threaded stud M10-24-32P10	16.949
306050	Threaded stud X-M6-8-52D12	6.38
306051	Threaded stud X-M6-8-72D12	8.31
306052	Threaded stud X-M6-8-95D12	10.26
271962	Threaded stud X-EM6H-20-9P12	5.74
271964	Threaded stud X-EM6H-11-9P12	4.1
271966	Threaded stud X-EM6H-8-9P12	3.79
385133	Sheet metal nail X-ENP2K-20 L15	4.96
40711	Sheet metal nail NPH2-42L15	8.78
385134	Sheet metal nail X-ENP2K-20 L15 MX	4.96
44165	Kwik nail X-DNH 37 P8 S15	6.062
40351	Micky pin PN 514R	0.97

Item number	Item designation	Weight [g]
40353	Micky pin PN 518R	1.11
40357	Micky pin PN 525R	1.4
40358	Micky pin PN 530R	1.68
40360	Micky pin PN 535R	1.83
40361	Micky pin PN 540R	2.04
40362	Micky pin PN 550R	2.41
41057	Universal nail X-NK 22 S12	2.65
41058	Universal nail X-NK 27 S12	3.08
41059	Universal nail X-NK 32 S12	3.41
41060	Universal nail X-NK 37 S12	3.88
41061	Universal nail X-NK 42 S12	4.3
41062	Universal nail X-NK 47 S12	4.72
41064	Universal nail X-NK 62 S12	5.92
41065	Universal nail X-NK 72 S12	6.78
41070	Universal nail X-NK 54 S12	5.42
41503	Universal nail X-ENK 16 S12	2.24
41505	Universal nail X-ENK 19 S12	2.5
41507	Universal nail X-ENK 22 S12	2.76
237455	Universal nail X-CP 72 P8 S23	11.521
2361654	Steel nail X-S 14 B4 MX	1.151
2298507	High performance nail X-P 24 B3 MX	1.65
2298508	High performance nail X-P 24 B3 MX BULK	1.65
2361655	High performance nail X-P 17 B4 MX bulk	1.203
2361656	High performance nail X-P 20 B4 MX bulk	1.423
2361657	High performance nail X-P 24 B4 MX bulk	1.653
2361658	Concrete nail X-C 20 B4 MX bulk	1.443
2361659	Concrete nail X-C 27 B4 MX bulk	1.893
2361660	Concrete nail X-C 32 B4 MX bulk	2.153
2361661	Concrete nail X-C 39 B4 MX bulk	2.043
2361662	Concrete nail X-C 45 B4 MX bulk	2.433
2361663	Concrete nail X-C 20 B4 MX bulk	1.443

Item number	Item designation	Weight [g]
2361664	Concrete nail X-C 27 B4 MX bulk	1.893
2361665	Concrete nail X-C 32 B4 MX bulk	2.153
2361666	Concrete nail X-C 39 B4 MX bulk	2.043
2361667	Concrete nail X-C 45 B4 MX bulk	2.433
2412652	Concrete nail X-C 20 B4 MX bulk	1.443
2412654	Concrete nail X-C 27 B4 MX bulk	1.893
2412656	Concrete nail X-C 32 B4 MX bulk	2.153
2412658	Concrete nail X-C 39 B4 MX bulk	2.043
2412760	Concrete nail X-C 45 B4 MX bulk	2.433
2361668	Plywood pin X-PN 37 B4 MX bulk	1.823
2361669	Plywood pin X-PN 37 B4 MX bulk	1.823
2412770	Plywood pin X-PN 37 B4 MX bulk	1.823
2412771	Plywood pin X-PN 37 B4 MX bulk	1.823
21002	Threaded stud EM6H-20-20MF8	9.85
271961	Threaded stud X-EM6H-20-9FP8	5.867
271963	Threaded stud X-EM6H-11-9FP8	4.227
271965	Threaded stud X-EM6H-8-9FP8	3.917
2330349	Gas nail X-EGN 14 MX	1.156
340230	Gas nail X-GN 27 MX	1.891
340232	Gas nail X-GN 20 MX	1.436
340233	Gas nail X-GN 32 MX	2.151
340234	Gas nail X-GN 39 MX	1.941
2045540	Gas nail X-GN 27 MX	1.891
2045542	Gas nail X-GN 32 MX	2.151
2064004	Gas nail X-GN 20 MX BULK	1.436
2071406	Gas nail X-GN 20 MX	1.436
2071407	Gas nail X-GN 27 MX	1.891
2071408	Gas nail X-GN 32 MX	2.151
2330360	Gas nail X-GHP 18 MX	1.21
2330361	Gas nail X-GHP 20 MX	1.43
388535	Concrete nail X-C 27 P8	2.377

Item number	Item designation	Weight [g]
2074270	Concrete nail X-C 20 THP	1.878
2074271	Concrete nail X-C 20 THP BULK	1.878
2074272	Concrete nail X-C 22 P8TH	3.043
2074273	Concrete nail X-C 22 P8TH BULK	3.043
2074287	Concrete nail X-C 27 P8	2.377
2074289	Concrete nail X-C 32 P8	2.786
2074291	Concrete nail X-C 37 P8	2.809
2074295	Concrete nail X-C 47 P8	3.938
2074297	Concrete nail X-C 52 P8	4.215
2074299	Concrete nail X-C 62 P8	5.342
2074301	Concrete nail X-C 72 P8	6.54
2091372	Concrete nail X-C 20 THP	1.878
2091373	Concrete nail X-C 20 THP BULK	1.878
2091374	Concrete nail X-C 22 P8 TH	3.043
2091375	Concrete nail X-C 22 P8 TH BULK	3.043
2091376	Concrete nail X-C 27 P8 TH	3.377
2091377	Concrete nail X-C 22 P8	2.043
2091378	Concrete nail X-C 22 P8 BULK	2.043
2091379	Concrete nail X-C 27 P8	2.377
2091380	Concrete nail X-C 27 P8 BULK	2.377
2091381	Concrete nail X-C 32 P8	2.786
2091382	Concrete nail X-C 32 P8 BULK	2.786
2091383	Concrete nail X-C 37 P8	2.809
2091384	Concrete nail X-C 37 P8 BULK	2.809
2091385	Concrete nail X-C 42 P8	3.878
2091386	Concrete nail X-C 42 P8 BULK	3.878
2091387	Concrete nail X-C 47 P8	3.938
2091388	Concrete nail X-C 47 P8 BULK	3.938
2091389	Concrete nail X-C 52 P8	4.215
2091390	Concrete nail X-C 52 P8 BULK	4.215
2091391	Concrete nail X-C 62 P8	5.342

Item number	Item designation	Weight [g]
2091392	Concrete nail X-C 62 P8 BULK	5.342
2091393	Concrete nail X-C 72 P8	6.54
2091394	Concrete nail X-C 72 P8 BULK	6.54
2074276	Concrete nail X-C 20 MX BULK	2.074
2074277	Concrete nail X-C 27 MX BULK	2.55
2074278	Concrete nail X-C 32 MX BULK	2.959
2074279	Concrete nail X-C 37 MX BULK	2.982
2074280	Concrete nail X-C 42 MX BULK	4.051
2074281	Concrete nail X-C 47 MX BULK	4.111
2074282	Concrete nail X-C 52 MX BULK	4.388
2074283	Concrete nail X-C 62 MX BULK	5.515
2074284	Concrete nail X-C 72 MX BULK	6.713
2091264	Concrete nail X-C 20 MX BULK	2.074
2091265	Concrete nail X-C 20 MX	2.074
2091266	Concrete nail X-C 27 MX BULK	2.55
2091267	Concrete nail X-C 27 MX	2.55
2091268	Concrete nail X-C 32 MX BULK	2.959
2091269	Concrete nail X-C 32 MX	2.959
2091360	Concrete nail X-C 37 MX BULK	2.982
2091361	Concrete nail X-C 37 MX	2.982
2091362	Concrete nail X-C 42 MX BULK	4.051
2091363	Concrete nail X-C 42 MX	4.051
2091364	Concrete nail X-C 47 MX BULK	4.111
2091365	Concrete nail X-C 47 MX	4.111
2091366	Concrete nail X-C 52 MX BULK	4.388
2091367	Concrete nail X-C 52 MX	4.388
2091368	Concrete nail X-C 62 MX BULK	5.515
2091369	Concrete nail X-C 62 MX	5.515
2091370	Concrete nail X-C 72 MX BULK	6.713
2091371	Concrete nail X-C 72 MX	6.713
2029154	Concrete nail X-C 47 P8R36	12.512

Item number	Item designation	Weight [g]
2029155	Concrete nail X-C 72 P8R36	15.114
2091395	Concrete nail X-C 27 P8 S23	6.526
2091396	Concrete nail X-C 27 P8 S23	6.526
2091397	Concrete nail X-C 32 P8 S23	6.935
2091398	Concrete nail X-C 32 P8 S23 T	6.935
2091399	Concrete nail X-C 32 P8 S23	6.935
2091400	Concrete nail X-C 37 P8 S23	6.958
2091401	Concrete nail X-C 37 P8 S23	6.958
2091402	Concrete nail X-C 37 P8 S23 T (1000)	6.958
2091403	Concrete nail X-C 42 P8 S23	8.027
2091404	Concrete nail X-C 42 P8 S23	8.027
2091405	Concrete nail X-C 47 P8 S23	8.087
2091406	Concrete nail X-C 47 P8 S23	8.087
2091407	Concrete nail X-C 37 P8 S36	10.933
2091408	Concrete nail X-C 52 P8 S36	12.789
2091409	Concrete nail X-C 62 P8 S36	13.916
2091410	Concrete nail X-C 22 P8 S15 TH	5.485
283512	X-ENP HVB Sheet metal nails	6.24
244774	Concrete nail X-CF 72P8S23	11.042
2424199	Concrete nail X-CF 72P8S23	11.042
271984	Threaded stud X-EM10H-24-12P10	17.169
271982	Threaded stud X-EM8H-15-12FP10	7.979
271979	Threaded stud X-EM8H-15-12P12	7.96
271981	Threaded stud X-EM8H-15-12P8	7.719
271983	Threaded stud X-EM8H-11-12P8	7.659
271985	Threaded stud X-EW10H-30-14P10	14.92
34456	Concrete nail X-C 32P8S23T	6.935
34457	Concrete nail X-C 37 P8S23T	6.958
388543	Concrete nail X-C 27 P8S23	6.526
388544	Concrete nail X-C 32 P8S23	6.935
388545	Concrete nail X-C 37 P8S23	6.958

Item number	Item designation	Weight [g]
388546	Concrete nail X-C 42 P8S23	8.027
388547	Concrete nail X-C 47 P8S23	8.087
388548	Concrete nail X-C 27 P8S23	6.526
388549	Concrete nail X-C 32 P8S23	6.935
388550	Concrete nail X-C 37 P8S23	6.958
388551	Concrete nail X-C 42 P8S23	8.027
388552	Concrete nail X-C 47 P8S23	8.087
388553	Concrete nail X-C 37 P8S36	10.933
388554	Concrete nail X-C 52 P8S36	12.789
388555	Concrete nail X-C 62 P8S36	13.916
388597	Gas nail X-GPN 37 MX	1.821
383582	Forming nail X-CT 47 DP8	4.074
383583	Forming nail X-CT 52 DP8	4.734
383585	Forming nail X-CT 62 DP8	5.394
383586	Forming nail X-CT 72 DP8	6.334
383576	Forming nail X-CT 52 MX	4.798
383579	Forming nail X-CT 62 MX	5.458
383588	Forming nail X-CT 47 MX	4.138
383589	Forming nail X-CT 52 MX	4.798
383591	Forming nail X-CT 62 MX	5.458
413002	Forming nail X-CT 47 MX	4.138
413003	Forming nail X-CT 72 MX	6.398
2314524	Steel nail X-S 14 B3 MX	1.15
2314525	Steel nail X-S 14 B3 MX Bulk	1.15
2314520	High performance nail X-P 17 B3 MX	1.42
2314521	High performance nail X-P 17 B3 MX Bulk	1.42
2314522	High performance nail X-P 20 B3 MX	1.65
2314523	High performance nail X-P 20 B3 MX Bulk	1.65
2348333	High performance nail X-P 17 B3 MX BULK	1.42
2348334	High performance nail X-P 20 B3 MX BULK	1.65
2348335	High performance nail X-P 24 B3 MX BULK	1.65

Item number	Item designation	Weight [g]
2105408	Threaded stud X-M6-7-14 B3 P7	2.013
2105409	Threaded stud X-M6-7-24 B3 P7	2.46
2105800	Threaded stud X-W6-12-14 B3 P7	3.513
2105801	Threaded stud X-W6-12-20 B3 P7	3.913
2105406	Universal nail X-P 30 B3 P7	1.88
2105407	Universal nail X-P 36 B3 P7	2.215
2102013	Gas nail X-C 20 G2 MX	1.197
2102014	Gas nail X-C 27 G2 MX	1.587
2102015	Gas nail X-C 32 G2 MX	1.767
2102016	Gas nail X-C 39 G2 MX	1.887
2102017	Gas nail X-P 14 G2 MX	1.077
2102018	Gas nail X-P 17 G2 MX	1.207
2136797	Gas nail X-P 20 G2 MX	1.367
2273704	Gas nail X-P 17 G2 MX	1.207
2100955	Gas nail X-C 20 G3 MX	1.441
2100956	Gas nail X-C 27 G3 MX	1.891
2100957	Gas nail X-C 32 G3 MX	2.151
2100958	Gas nail X-C 39 G3 MX	1.941
2100959	Gas nail X-C 20 G3 MX	1.441
2101040	Gas nail X-C 27 G3 MX	1.891
2101041	Gas nail X-C 32 G3 MX	2.151
2122633	Gas nail X-C 39 G3 MX	1.941
2101549	Plywood pin X-PN 37 G3 MX	1.821
46157	Universal nail DS 27 P10	3.9
46158	Universal nail DS 32 P10	4.54
46159	Universal nail DS 37 P10	5.15
46160	Universal nail DS 42 P10	5.78
46162	Universal nail DS 52 P10	7.02
46164	Universal nail DS 62 P10	8.27
46165	Universal nail DS 72 P10	9.53
46167	Universal nail DS 97 P10	12.63

Item number	Item designation	Weight [g]
436061	Concrete nail X-CS 22 P8	2.19
436062	Concrete nail X-CS 27 P8	2.69
436063	Concrete nail X-CS 37 P8	3.64
436064	Concrete nail X-CS 47 P8	4.39
436065	Concrete nail X-CS 52 P8	4.71
436066	Concrete nail X-CS 22 P8 S16 C	4.09
436067	Concrete nail X-CS 27 P8 S23 C	7.79
2006452	Concrete nail X-CS 62 P8	5.54
2006453	Concrete nail X-CS 72 P8	6.32
306073	Threaded stud X-W6-20-22FP8	6.717
306074	Threaded stud X-W6-20-27FP8	6.057
306075	Threaded stud X-W6-38-27FP8	10.567
271967	Threaded stud X-EW6H-38-9FP8	9.007
271969	Threaded stud X-EW6H-28-9FP8	7.517
271971	Threaded stud X-EW6H-20-9FP8	6.167
271973	Threaded stud X-EW6H-11-9FP8	4.257
26472	Threaded stud W10-30-27P10	19.22
26473	Threaded stud W10-30-32P10	20.05
26476	Threaded stud W10-30-42P10	20.37
2123993	Concrete nail X-C 20 B3 MX	1.44
2123994	Concrete nail X-C 24 B3 MX	1.72
2149988	Concrete nail X-C 30 B3 MX	2.08
2149989	Concrete nail X-C 36 B3 MX	2.1
2224568	Concrete nail X-C 27 B3 MX	1.89
2246267	Concrete nail X-C 20 B3 MX	1.44
2314526	Concrete nail X-C 24 B3 MX	1.72
2314527	Concrete nail X-C 30 B3 MX	2.08
388509	Concrete nail X-C 20 MX	2.074
388510	Concrete nail X-C 27 MX	2.55
388511	Concrete nail X-C 32 MX	2.959
388512	Concrete nail X-C 37 MX	2.982

Item number	Item designation	Weight [g]
388513	Concrete nail X-C 42 MX	4.051
388514	Concrete nail X-C 47 MX	4.071
388515	Concrete nail X-C 52 MX	4.388
388516	Concrete nail X-C 62 MX	5.515
388517	Concrete nail X-C 72 MX	6.713
388518	Concrete nail X-C 20 MX	2.074
388519	Concrete nail X-C 27 MX	2.55
388520	Concrete nail X-C 32 MX	2.959
388521	Concrete nail X-C 37 MX	2.982
388522	Concrete nail X-C 42 MX	4.051
388523	Concrete nail X-C 47 MX	4.071
388524	Concrete nail X-C 52 MX	4.388
388525	Concrete nail X-C 62 MX	5.515
388526	Concrete nail X-C 72 MX	6.713
283508	Sheet metal nail X-ENP-19 L15 MXR	6.89
2466978	Sheet metal nail X-ENP-19 L15 MXR 02	6.89
283507	Sheet metal nail X-ENP-19 L15 MX	6.89
2466977	Sheet metal nail X-ENP-19 L15 MX 02	6.89
283506	Sheet metal nail X-ENP-19 L15	6.16
2466976	Sheet metal nail X-ENP-19 L15 02	6.16
2330346	Gas nail X-P 20 G3 MX	1.431
2330347	Gas nail X-P 17 G3 MX	1.311
2330348	Gas nail X-S 14 G3 MX	1.151
2157366	Plywood pin X-PN 37 G2 MX	1.767
360930	Concrete nail X-C 82 P8	7.478
360931	Concrete nail X-C 97 P8	9.093
360933	Concrete nail X-C 117 P8	11.248
2199481	Top hat 3,50x10 for X-U	0.72