

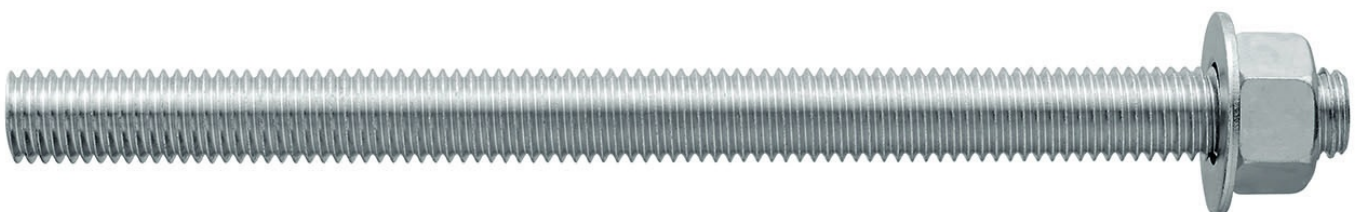
ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	Hilti Aktiengesellschaft
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-HIL-20250283-CBN1-EN
Issue date	10.09.2025
Valid to	09.09.2030

**HAS 8.8. HAS 8.8 HDG, HAS 5.8, HAS 5.8 HDG, HAS meter
Hilti AG**

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General Information

Hilti AG

Programme holder

IBU – Institut Bauen und Umwelt e.V.
Hegelplatz 1
10117 Berlin
Germany

Declaration number

EPD-HIL-20250283-CBN1-EN

This declaration is based on the product category rules:

Screws, 01.06.2023
(PCR checked and approved by the SVR)

Issue date

10.09.2025

Valid to

09.09.2030

Dipl.-Ing. Hans Peters
(Chairman of Institut Bauen und Umwelt e.V.)

Florian Pronold
(Managing Director Institut Bauen und Umwelt e.V.)

HAS 8.8. HAS 8.8 HDG, HAS 5.8, HAS 5.8 HDG, HAS meter

Owner of the declaration

Hilti Aktiengesellschaft
Feldkircher Strasse 100
9494 Schaan
Liechtenstein

Declared product / declared unit

HAS 8.8 (carbon steel) / 1 kg product + packaging

Scope:

This document refers to HAS 8.8 M12x220 a representative product for the HAS portfolio. The HAS 8.8 M12x220 was selected as a representative product because it is the best-selling item in the portfolio. Specific data from the HILTI AG manufacturing plant in Shanghai was collected for the preparation of the LCA. The input and output flows used in this calculation were collected as annual average consumption for the year 2023. The procedure for allocating the data to the declared unit is described in the chapter Allocation. The owner of the declaration is responsible for the underlying information and evidence; any liability of the IBU regarding manufacturer information, eco-balance data and evidence is excluded. The owner of the declaration shall be liable for the underlying information and evidence; the IBU shall not be liable with respect to manufacturer information, life cycle assessment data and evidences.

The EPD was created according to the specifications of EN 15804+A2. In the following, the standard will be simplified as *EN 15804*.

Verification

The standard EN 15804 serves as the core PCR	
Independent verification of the declaration and data according to ISO 14025:2011	
<input type="checkbox"/>	internally
<input checked="" type="checkbox"/>	externally

Matthias Klingler,
(Independent verifier)

Product

Product description/Product definition

HAS products are threaded rods used for anchoring applications to resist static and seismic structural loads in the construction industry. The HAS rods are used together with Hilti injection mortars. The carbon steel variants of the HAS family is described further in this report.

For placing the product on the market in the European Union European Free Trade Association EU/EFTA (with the exception of Switzerland) *Regulation (EU) No. 305/2011 (CPR)* applies. The product needs a declaration of performance based on the European Technical Approval. HAS rods are present in several ETA approvals of Hilti Injection Mortars. Please see table for an overview of ETA approvals with HAS rods.

IT- Number	Product name	Weight total [kg]
2390236	Anchor rod HAS 8.8 M12x220	0,1836
2390194	HAS 5.8 M8x80	0,0325
2390195	HAS 5.8 M8x110	0,0421
2390196	HAS 5.8 M8x150	0,0549
2390197	HAS 5.8 M10x115	0,0727
2390198	HAS 5.8 M10x130	0,0803
2390199	HAS 5.8 M10x150	0,0903
2390200	HAS 5.8 M10x170	0,1002
2390201	HAS 5.8 M10x190	0,1102
2390126	HAS 5.8 M12x120	0,1109
2390202	HAS 5.8 M12x160	0,1406
2390203	HAS 5.8 M12x180	0,1546
2390204	HAS 5.8 M12x200	0,1696
2390205	HAS 5.8 M12x220	0,1836
2390206	HAS 5.8 M16x150	0,2446
2390207	HAS 5.8 M16x190	0,2966
2390208	HAS 5.8 M16x220	0,3356
2390209	HAS 5.8 M16x260	0,3876
2390210	HAS 5.8 M20x180	0,4816
2390211	HAS 5.8 M20x260	0,4566
2433424	HAS 5.8 M16x300	0,6556
2434581	HAS 5.8 M20x240	0,6166
2434428	HAS 5.8 M20x300	0,6976
2434429	HAS 5.8 M24x300	1,0313
2390212	HAS 5.8 HDG M8x110	0,0421
2390213	HAS 5.8 HDG M8x150	0,0549
2390214	HAS 5.8 HDG M10x115	0,0727
2390215	HAS 5.8 HDG M10x130	0,0803
2390216	HAS 5.8 HDG M12x120	0,1109
2390217	HAS 5.8 HDG M12x160	0,1406
2390218	HAS 5.8 HDG M12x220	0,1836
2390219	HAS 5.8 HDG M16x150	0,2446
2390220	HAS 5.8 HDG M16x190	0,2966
2390221	HAS 5.8 HDG M16x220	0,3356
2390222	HAS 5.8 HDG M20x180	0,4656
2390223	HAS 5.8 HDG M20x260	0,4566
2433425	HAS 5.8 HDG M16x300	0,6166
2434590	HAS 5.8 HDG M20x300	0,6776
2434582	HAS 5.8 HDG M24x300	1,0073
2390224	HAS 8.8 M8x80	0,0325
2390225	HAS 8.8 M8x110	0,0421
2390226	HAS 8.8 M8x150	0,0549
2390227	HAS 8.8 M10x115	0,0727
2390228	HAS 8.8 M10x130	0,0803
2390229	HAS 8.8 M10x150	0,0903



2390230	HAS 8.8 M10x170	0,1002
2390231	HAS 8.8 M10x190	0,1102
2390232	HAS 8.8 M12x120	0,1109
2390233	HAS 8.8 M12x160	0,1406
2390234	HAS 8.8 M12x180	0,1546
2390235	HAS 8.8 M12x200	0,1696
2390236	HAS 8.8 M12x220	0,1836
2390237	HAS 8.8 M16x150	0,2326
2390238	HAS 8.8 M16x190	0,2606
2390239	HAS 8.8 M16x220	0,2446
2390240	HAS 8.8 M16x260	0,2966
2390241	HAS 8.8 M20x180	0,3506
2390242	HAS 8.8 M20x260	0,3356
2434065	HAS 8.8 M12x260	0,3906
2433426	HAS 8.8 M12x300	0,3876
2434583	HAS 8.8 M16x200	0,4816
2434591	HAS 8.8 M16x230	0,5476
2433427	HAS 8.8 M16x300	0,5866
2433428	HAS 8.8 M16x350	0,4566
2433429	HAS 8.8 M16x380	0,5336
2434584	HAS 8.8 M20x220	0,6556
2434066	HAS 8.8 M20x240	0,6166
2434592	HAS 8.8 M20x300	0,6976
2434592	HAS 8.8 M20x350	0,8006
2434067	HAS 8.8 M20x400	0,9026
2434068	HAS 8.8 M24x300	1,0313
2434069	HAS 8.8 M24x450	1,4753
2390243	HAS 8.8 HDG M8x110	0,0421
2390244	HAS 8.8 HDG M8x150	0,0549
2390245	HAS 8.8 HDG M10x115	0,0727
2390246	HAS 8.8 HDG M10x130	0,0803
2390247	HAS 8.8 HDG M12x120	0,1109
2390248	HAS 8.8 HDG M12x160	0,1406
2390249	HAS 8.8 HDG M12x220	0,1836
2390250	HAS 8.8 HDG M16x150	0,2446
2390251	HAS 8.8 HDG M16x190	0,2966
2390252	HAS 8.8 HDG M16x220	0,3356
2390253	HAS 8.8 HDG M20x180	0,4656
2390254	HAS 8.8 HDG M20x260	0,4566
2434585	HAS 8.8 HDG M16x300	0,6166
2434600	HAS 8.8 HDG M20x300	0,6776
2434610	HAS 8.8 HDG M20x400	0,8766
2434611	HAS 8.8 HDG M24x300	1,0073
2390274	HAS 5.8 M8x1000	0,3124
2390289	HAS 5.8 M10x1000	0,4914
2390290	HAS 5.8 M12x1000	0,7121
2390291	HAS 5.8 M16x1000	1,3099

2390292	HAS 5.8 M20x1000	2,0524
2390127	HAS 5.8 M24x1000	2,9609
2390293	HAS 5.8 M27x1000	3,8268
2390294	HAS 5.8 M30x1000	4,6942
2390295	HAS 5.8 M33x1000	5,7701
2390296	HAS 5.8 M36x1000	6,8251
2390297	HAS 5.8 M39x1000	8,1656
2390298	HAS 5.8 M8x3000	0,9372
2390299	HAS 5.8 M10x3000	1,4742
2390300	HAS 5.8 M12x3000	2,1364
2390125	HAS 5.8 M16x3000	3,9298
2390128	HAS 5.8 M20x3000	6,1572
2390129	HAS 5.8 M24x3000	8,8826
2390160	HAS 5.8 M27x3000	11,4804
2390161	HAS 5.8 M30x3000	14,0825
2390162	HAS 5.8 M33x3000	17,3103
2390163	HAS 5.8 M36x3000	20,4752
2390164	HAS 5.8 M39x3000	24,4969
2390165	HAS 8.8 M8x1000	0,3124
2390166	HAS 8.8 M10x1000	0,4914
2390167	HAS 8.8 M12x1000	0,7121
2390168	HAS 8.8 M16x1000	1,3099
2390169	HAS 8.8 M20x1000	2,0524
2390170	HAS 8.8 M24x1000	2,9609
2390171	HAS 8.8 M27x1000	3,8268
2390172	HAS 8.8 M30x1000	4,6942
2390173	HAS 8.8 M33x1000	5,7701
2390174	HAS 8.8 M36x1000	6,8251
2390175	HAS 8.8 M39x1000	8,1656
2390176	HAS 8.8 M8x3000	0,9372
2390177	HAS 8.8 M10x3000	1,4742
2390178	HAS 8.8 M12x3000	2,1364
2390179	HAS 8.8 M16x3000	3,9298
2390180	HAS 8.8 M20x3000	6,1572
2390181	HAS 8.8 M24x3000	8,8826
2390182	HAS 8.8 M27x3000	11,4804
2390183	HAS 8.8 M30x3000	14,0825
2390184	HAS 8.8 M33x3000	17,3103
2390185	HAS 8.8 M36x3000	20,4752
2390186	HAS 8.8 M39x3000	24,4969
2390187	HAS 8.8 HDG M10x1000	0,4914
2390188	HAS 8.8 HDG M12x1000	0,7121
2390189	HAS 8.8 HDG M16x1000	1,3099
2390190	HAS 8.8 HDG M20x1000	2,0524
2390191	HAS 8.8 HDG M24x1000	2,9609
2390192	HAS 8.8 HDG M27x1000	3,8268
2390275	HAS 8.8 HDG M30x1000	4,6942
2390276	HAS 8.8 HDG M33x1000	5,7701
2390277	HAS 8.8 HDG M36x1000	6,8251
2390411	HAS 8.8 HDG M39x1000	8,1656

Application

The core use of the product is in various construction applications where threaded rods are needed. Including commercial, industrial, residential and infrastructure segments. The main application of HAS rod is in structural connections of steel to concrete, where the HAS rod with appropriate Hilti Injection Mortar serves as a fastener of a steel baseplate into concrete or masonry base material.

Technical Data

For each application and use the respective national provisions apply.

The Hilti HAS threaded rod is an anchor fastener for use with Hilti Injection Mortars in concrete or masonry. The rod is



installed into a drilled hole and after curing time of the mortar nut and washer are installed and nut is torqued.

Performance data of the products are described in related ETA certificates. Hilti technical data for specific Hilti Injection Mortar used with HAS rod. This is also referred in declaration of performance.

Mechanical properties of HAS 5.8 (HDG)

fuk = 500 N/mm²

fyk = 400 N/mm²

Elongation at fracture (l0=5d) > 8% ductile

Electroplated zinc coated ≥ 5 µm

(HDG) hot dip galvanized ≥ 45 µm

Mechanical properties of HAS 8.8 (HDG)

fuk = 800 N/mm²

fyk = 640 N/mm²

Elongation at fracture (l0=5d) > 12% ductile

Electroplated zinc coated ≥ 5 µm

(HDG) hot dip galvanized ≥ 45 µm

Constructional data

Constructional data for reference product

Name	Value	Unit
Screw diameter	12	mm
Plate diameter	13	mm
Usage category as per ETA	-	-
Characteristic tension resistance	-	kN

LCA: Calculation rules

Declared Unit

The product declared here is a screw from HILTI AG with the designation 'HAS 8.8 M12x220', representative of the HAS portfolio. The declared unit refers to 1 kg of the fastening system. The packaging, based on 1 kg, is also included in the calculation at 0.018 kg. The following table shows the data for the decarbonized unit.

Declared unit and mass reference

Name	Value	Unit
Declared unit	1	kg
Gross density	7850	kg/m ³
Conversion factor to 1 kg	1	

System boundary

Type of EPD: From the cradle to the factory gate with modules C1-C4 and module D. The following information modules are defined as system boundaries in this study:

Production stage (A1- A3):

Base materials/Ancillary materials

Base materials

Name	Value	Unit
Steel	100	%

Base materials of HAS 5.8 (HDG)

HAS 5.8 follows ISO 898-1
nut follows DIN 934, grade 8,
washer follows DIN 125-140 HV

Base materials of HAS 8.8 (HDG)

HAS 8.8 follows ISO 898-1,
nut follows DIN 934, grade 8,
washer follows DIN 125-140 HV

Information on pre- and post consumer recycled content:

100% of the declared product derives from basic oxygen furnace (BOF) produced steel and carries a secondary material (recycled material) content of 20%. Based on the most comprehensive market information and internal evaluations available, the pre-consumer share is on average approximately 25% (out of 20%), which means a 5% share of the steel components, while the post-consumer share is on average approximately 75% (out of 20%), which means a 15% share of the steel components

Reference service life

The lifetime of the HAS rod is defined in EAD 330499-01-0601 and depends on the Hilti Injection Mortar used.

- A1, Raw material,
- A2, Transport to the manufacturer,
- A3, Production.

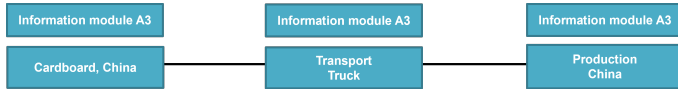
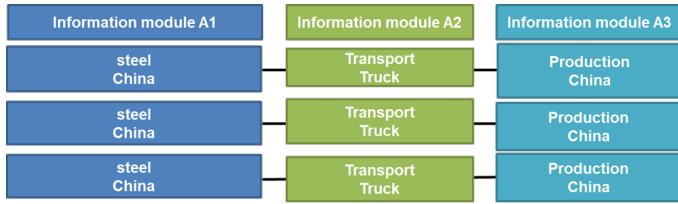
End of life (C1- C4):

- C1, Dismantling/demolition,
- C2, Transport,
- C3, Waste treatment,
- C4, Disposal.

Reuse, recovery and recycling potential (D)

To accurately record the indicators and environmental impacts of the declared unit, a total of eight information modules are considered. The information modules A1 to A3 cover the material provision, transport to the production site, and the production processes of the product itself.

The intermediate products are sourced from Asia and transported by truck.



Information modules C1 to C4 cover the dismantling or demolition of the product from the building, transportation for waste disposal, waste treatment and final disposal of the product. Additionally, reuse, recovery and recycling potentials are addressed in information module D.

Geographic Representativeness

Land or region, in which the declared product system is manufactured, used or handled at the end of the product's lifespan: Global

Comparability

Basically, a comparison or an evaluation of EPD data is only possible if all the data sets to be compared were created according to *EN 15804* and the building context, respectively the product-specific characteristics of performance, are taken into account. Sphera LCA for experts

LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

No renewable raw materials are used; therefore, the biogenic carbon is reported as zero. However, the packaging contains the following raw material that includes biogenic carbon.

Information on describing the biogenic carbon content at factory gate

Name	Value	Unit
Biogenic carbon content in product	-	kg C
Biogenic carbon content in accompanying packaging	0.001	kg C

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

End of life (C1-C4)

Removing the screw from the building is calculated in the information module C1.

Demolition is carried out using an

electric screwdriver. The power consumption for the tool is assumed to be 0.5 MJ for the specified unit. The power consumption is calculated based on a European electricity mix.

In the information module C3, the waste treatment of the waste from the declared unit that is generated during the demolition of the building is calculated in the waste treatment plant. RER:

Construction waste treatment plant is used as the background data set. The approx. 3% mass loss is process-related from the data set and is stored in the data set.

Name	Value	Unit
Collected as mixed construction waste	1	kg
Recycling	0.97	kg

Reuse, recovery and/or recycling potentials (D), relevant scenario information

Module D presents the substitution potential of primer steel through a recycling scenario.

Name	Value	Unit
Steel for recycling Net flow	0,773	kg

LCA: Results

The impact assessment of environmental loads is carried out in accordance with EN 15804+A2. The characterisation factors are selected in accordance with PCR (EF3.1).

DESCRIPTION OF THE SYSTEM BOUNDARY (X = INCLUDED IN LCA; MND = MODULE OR INDICATOR NOT DECLARED; MNR = MODULE NOT RELEVANT)

Product stage			Construction process stage		Use stage							End of life stage				Benefits and loads beyond the system boundaries
Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	MND	MND	MND	MND	MNR	MNR	MNR	MND	MND	X	X	X	X	X

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 kg HAS 8.8

Parameter	Unit	A1-A3	C1	C2	C3	C4	D
Global Warming Potential total (GWP-total)	kg CO ₂ eq	3.9E+00	6.96E-02	4.99E-03	2.72E-03	0	-1.33E+00
Global Warming Potential fossil fuels (GWP-fossil)	kg CO ₂ eq	3.9E+00	6.96E-02	4.79E-03	2.68E-03	0	-1.34E+00
Global Warming Potential biogenic (GWP-biogenic)	kg CO ₂ eq	1.15E-03	1.57E-05	2.03E-04	0	0	7.92E-03
Global Warming Potential luluc (GWP-luluc)	kg CO ₂ eq	2.72E-03	1.04E-05	6.45E-07	3.63E-05	0	-1.79E-04
Depletion potential of the stratospheric ozone layer (ODP)	kg CFC11 eq	1.02E-11	7.65E-13	6.23E-16	4.84E-15	0	1.8E-12
Acidification potential of land and water (AP)	mol H ⁺ eq	1.14E-02	1.63E-04	2.39E-05	1.34E-05	0	-3.29E-03
Eutrophication potential aquatic freshwater (EP-freshwater)	kg P eq	2.67E-06	3.64E-08	1.31E-09	1.04E-08	0	-3.13E-07
Eutrophication potential aquatic marine (EP-marine)	kg N eq	2.61E-03	2.73E-05	1.17E-05	6.18E-06	0	-5.28E-04
Eutrophication potential terrestrial (EP-terrestrial)	mol N eq	2.84E-02	2.92E-04	1.28E-04	6.83E-05	0	-4.73E-03
Formation potential of tropospheric ozone photochemical oxidants (POCP)	kg NMVOC eq	8.33E-03	8.13E-05	2.4E-05	1.71E-05	0	-2.14E-03
Abiotic depletion potential for non fossil resources (ADPE)	kg Sb eq	3.38E-07	3.29E-09	1.34E-10	2.81E-09	0	-7.61E-06
Abiotic depletion potential for fossil resources (ADPF)	MJ	3.96E+01	1.29E+00	6.64E-02	5.02E-02	0	-1.34E+01
Water use (WDP)	m ³ world eq deprived	6.2E-01	3.98E-03	1.25E-05	5.13E-04	0	-9.06E-02

RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 kg HAS 8.8

Parameter	Unit	A1-A3	C1	C2	C3	C4	D
Renewable primary energy as energy carrier (PERE)	MJ	6.34E+00	1.84E-01	4.86E-04	5.35E-03	0	5.27E-01
Renewable primary energy resources as material utilization (PERM)	MJ	2.7E-01	0	0	0	0	0
Total use of renewable primary energy resources (PERT)	MJ	6.61E+00	1.84E-01	4.86E-04	5.35E-03	0	5.27E-01
Non renewable primary energy as energy carrier (PENRE)	MJ	3.96E+01	1.29E+00	6.64E-02	5.02E-02	0	0
Non renewable primary energy as material utilization (PENRM)	MJ	0	0	0	0	0	0
Total use of non renewable primary energy resources (PENRT)	MJ	3.96E+01	1.29E+00	6.64E-02	5.02E-02	0	-1.34E+01
Use of secondary material (SM)	kg	2E-01	0	0	0	0	7.73E-01
Use of renewable secondary fuels (RSF)	MJ	0	0	0	0	0	0
Use of non renewable secondary fuels (NRSF)	MJ	0	0	0	0	0	0
Use of net fresh water (FW)	m ³	1.7E-02	2.59E-04	5.31E-07	1.49E-05	0	-1.36E-01

RESULTS OF THE LCA – WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2:

1 kg HAS 8.8

Parameter	Unit	A1-A3	C1	C2	C3	C4	D
Hazardous waste disposed (HWD)	kg	1.38E-08	1.83E-10	2.41E-12	7.26E-12	0	-9.99E-08
Non hazardous waste disposed (NHWD)	kg	3.47E-02	3.2E-04	6.91E-06	1.38E-05	0	1.62E-01
Radioactive waste disposed (RWD)	kg	5.51E-04	1.67E-04	1.06E-07	6.31E-07	0	1.46E-06
Components for re-use (CRU)	kg	0	0	0	0	0	0
Materials for recycling (MFR)	kg	3E-03	0	0	1E+00	0	0
Materials for energy recovery (MER)	kg	0	0	0	0	0	0
Exported electrical energy (EEE)	MJ	0	0	0	0	0	0
Exported thermal energy (EET)	MJ	0	0	0	0	0	0

RESULTS OF THE LCA – additional impact categories according to EN 15804+A2-optional:

1 kg HAS 8.8

Parameter	Unit	A1-A3	C1	C2	C3	C4	D
Incidence of disease due to PM emissions (PM)	Disease incidence	ND	ND	ND	ND	ND	ND
Human exposure efficiency relative to U235 (IR)	kBq U235 eq	ND	ND	ND	ND	ND	ND
Comparative toxic unit for ecosystems (ETP-fw)	CTUe	ND	ND	ND	ND	ND	ND

Comparative toxic unit for humans (carcinogenic) (HTP-c)	CTUh	ND	ND	ND	ND	ND	ND
Comparative toxic unit for humans (noncarcinogenic) (HTP-nc)	CTUh	ND	ND	ND	ND	ND	ND
Soil quality index (SQP)	SQP	ND	ND	ND	ND	ND	ND

Disclaimer 1 – for the indicator “Potential Human exposure efficiency relative to U235”. 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 or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators “abiotic depletion potential for non-fossil resources”, “abiotic depletion potential for fossil resources”, “water (user) deprivation potential, deprivation-weighted water consumption”, “potential comparative toxic unit for ecosystems”, “potential comparative toxic unit for humans – cancerogenic”, “Potential comparative toxic unit for humans - not cancerogenic”, “potential soil quality index”. The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high as there is limited experience with the indicator.

References

DIN 125 – Hardened Plain Washers (140 HV)

Specifies flat washers with Vickers hardness of 140 HV.

Includes:

Form A (no chamfer), steel or stainless steel (A2), 140 HV

Form B (with chamfer), steel, 140 HV

These washers conform to DIN 125-1 and ISO 7089, commonly used under nuts and bolt heads to distribute load

DIN 934 – Hexagon Nuts

Defines metric hex nuts M1–M160, product grades A (\leq M16) and B ($>$ M16), equivalent to ISO 4032

ISO 898-1 – Mechanical Properties of Fasteners (Part 1)

Specifies mechanical and physical properties of carbon and alloy steel bolts, screws, and studs with coarse and fine pitch threads, tested at ambient temperatures (10–35 °C). Defines product classes and test methods

DIN EN ISO 14025

DIN EN /ISO 14025:2011-10/, Environmental labels and declarations - Type III Environment

Declarations - Principles and Procedures

DIN EN ISO 14044

DIN EN ISO 14044:2006-10, Environmental management - Life cycle assessment - Requirements and guidance (ISO 14044:2006); German and English version EN ISO 14044:2006

EN 15804+A2

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Date of issue: 24.09.2023

ETA-15/0882

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Date of issue: 06.09.2023

ETA-16/0143

Injection system Hilti HIT-RE 500 V3. Bonded Fastener with threaded rods, rebar, internally sleeve and Hilti tension anchor HZA for use in concrete

Date of issue: 25.09.2023

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Date of issue: 19.10.2023

ETA-17/0005

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Date of issue: 30.10.2023

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Date of issue: 19.10.2023

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