

Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

Fire Protection Curtains

from

SPEDOS Vrata a.s.



Programme:	"National Environmental Labeling 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 registration number:	3015-EPD-030065677
Publication date:	2024-02-16
Valid until:	2029-02-16

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



General information

Programme information

Programme:	"National Environmental Labeling 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 , www.cenia.cz
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): EN 15804:2012+A2:2019/AC:2021

Life Cycle Assessment (LCA)

LCA accountability: SPEDOS Vrata a.s.

Third-party verification

Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:

EPD verification by accredited certification body

Third-party verification: **Technický a zkušební ústav stavební Praha, s.p.** is an approved certification body accountable for the third-party verification.

190 00 Praha 9, Prosecká 811/76a, CZ

The certification body is accredited by: **Českým institutem pro akreditaci, o.p.s., Osvědčení č. 95/2023**

Verifier: Ing. Lenka Vrbová




Procedure for follow-up of data during EPD validity involves third party verifier:

Ano ne

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: SPEDOS Vrata a.s.

Contact:

Libor Janíček

757 01 Valašské Meziříčí, Hranická 771, CZ

janicek@spedos.cz, <https://www.spedos.cz/>

Description of the organisation:

The company SPEDOS Vrata a.s. operates at Hranická 771 in Valašské Meziříčí. SPEDOS Vrata a.s. is the largest production company in the SPEDOS holding and is mainly engaged in the production and supply of industrial closures for customers. SPEDOS was established in 1991 as a company providing a relatively wide range of special supplies of Construction. Initially in co-operation with foreign companies and later with its own production, SPEDOS in a short time took one of the leading positions in the field of door and gate systems on the Czech and Slovak market.

Product-related or management system-related certifications:

The quality of the products is ensured by an effective quality management system according to EN ISO 9001 and is in accordance with the technical regulations regarding the type of product.

Name and location of production site(s):

757 01 Valašské Meziříčí, Hranická 771, CZ

Product information

Product name: Fire Protection Curtains

Product identification:

Fire Protection Curtains, product parts list

Product description:

As a fire safety device, textile Fire Protection Curtains, are used to separate two fire compartments inside buildings. Under normal conditions, the Fire Protection Curtains is permanently open and only lowered/closed in the event of a fire alarm. The Fire Protection Curtains consist of steel outlets, a metal box that covers the packing, a control unit and a special fire resistant fabric that is wound on a steel tubular shaft inside the box when in standby condition. In the event of a fire activation, the fabric is unwound from the roller shutter box and the fire stop (fabric) separates the fire compartments.

Roller shutters fully comply with European standards ČSN EN 16034:2015 *Pedestrian doorsets, industrial, commercial, garage doors and openable windows - Product standard, performance characteristics - Fire resisting and/or smoke control characteristics* and ČSN EN 13241+A2 *Industrial, commercial and garage doors and gates - Product standard, performance characteristic*.

A detailed description of the product can be found at <https://www.spedos.cz/protipozarni-roletovy-uzaver/produkt>.

Main areas of use:

- for fire departments

UN CPC code: -

Geographical scope:

The generic data used from the Ecoinvent database are used with validity for the Czech Republic (e.g. energy inputs) and in the event that 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 delivered in accordance with the standards indicated in the product description. The majority of products are transported individually by truck, the individual parts are suitably fixed.

Environment and health during use

During the entire production process, it is not necessary to take any special health protection measures beyond the legally specified industrial protection measures for production employees.

LCA information

Functional unit / declared unit:

The declared unit is 1 kg of the average manufactured product – Fire Protection
Curtains.

Designation	Unit	Value
Declared unit	kg	1
Conversion factor to 1 kg	kg	1

Reference service life:

The reference lifetime is not declared. These are construction products with many different application purposes. The service life is limited by the service life of the structures where the product is used.

Time representativeness:

For specific data, the manufacturer's data for the **year 2022** is used. For generic data, data from the Ecoinvent database version 3.8 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:

SimaPro calculation software, version 9.4 SimaPro Analyst, Ecoinvent database version 3.8.

Description of system boundaries:

b) Cradle to gate with options, modules C1–C4, module D and with optional modules (A1–A3 + C + D and additional modules). The additional modules may be one or more selected from A4–A5 and/or B1–B7.

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 construction phase includes the following modules:

- **A4** - transport to the construction site. Transport is carried out by truck with a capacity of 7.5 - 16 t (EURO 5). Transport of the declared product unit over a distance of 1 km is considered.

The end-of-life phase includes modules:

- **C1**, deconstruction, demolition; product from the building, including its dismantling or demolition, including the initial sorting of materials at the construction site. Decomposition and/or dismantling of the product is part of the demolition of the entire building. In this case, it is assumed that the impact on the environment is very small and can be neglected.
- **C2**, transportation to the waste treatment site; transportation of discarded product as part of waste processing, e.g. to a recycling site, and transportation of waste, e.g. to a final disposal site. Transport of metal parts from the dismantled part of the building takes place by truck with a capacity of 7.5 - 16 t (EURO 5) to the scrap metal collection point, estimated transport distance: 100 km. The other parts are transported by a 3.5-7.5 t vehicle to an inert materials dump at a distance of 25 km. In both cases, the vehicle load is considered only for 1 trip.

- **C3**, processing waste for reuse, recovery and/or recycling; e.g. collection of fractions of waste from deconstruction, and processing of waste from material flows intended for reuse, recycling and energy use. A scenario where metallic steel parts are recycled is assumed.
- **C4**, waste removal, including its pre-treatment and disposal site management. The non-metallic parts of the dismantled product are disposed of in an inert material landfill, without taking into account the energy use of landfill gas from (small) organic components.

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

Module D includes:

- **D**, potential for reuse, recovery and/or recycling, expressed in terms of net impacts or benefits. In the module D scenario, the saving of pig iron production from primary raw materials (without considering transport and energy) in another product system is taken into account.

Production:

The production of SPEDOS products takes place in the company's production area. Based on the customer's requirements, TPV creates production and control procedures according to which the production of individual products is managed. The company has a range of technological equipment including a bending press, a punching press, a welding robot. Products are assembled at assembly stations using welding, riveting and other processes. The final quality and performance of the product is verified through in-process, inter-process and out-process inspections.

More information:

Information module **A5** from the construction phase was 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. They 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	x	ND	ND	ND	ND	ND	ND	ND	ND	x	x	x	x	x
Geography	GLO	GLO, EU	EU, CZ	EU									EU	EU	EU	EU	GLO, EU
Specific data used	> 99 %					-	-	-	-	-	-	-	-	-	-	-	-
Variation – products	ND					-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites	ND					-	-	-	-	-	-	-	-	-	-	-	-

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
Structural steel	79,8	0	0
Galvanized steel	11,3	0	0
Acrylic sealant	0,3	0	0
PTFE – polytetrafluoroethylene	0,0	0	0
Stainless steel	0,2	0	0
Aluminium	8,3	0	0
TOTAL	100	0	0
Packaging materials	Weight %	Weight-% (versus the product)	Biogenic carbon content in kg C/DU
Packaging - pallet, spruce wood	98,8	61,8	4,44E-03
Packaging - PE film	1,2	0,7	0
TOTAL	100	62,5	4,44E-03

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.

Results of the environmental performance indicators

Mandatory impact category indicators according to EN 15804:2012+A2:2019/AC:2021

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-fossil	kg CO ₂ ekv.	3,87E+00	1,66E-04	ND	ND	ND	ND	ND	ND	ND	ND	5,78E-02	4,28E-02	2,49E-02	1,38E-05	-4,36E-01
GWP-biogenic	kg CO ₂ ekv.	-3,15E-01	1,42E-07	ND	ND	ND	ND	ND	ND	ND	ND	9,09E-05	3,89E-05	-4,38E-04	5,84E-08	-4,80E-05
GWP- luluc	kg CO ₂ ekv.	5,63E-03	6,53E-08	ND	ND	ND	ND	ND	ND	ND	ND	6,02E-06	2,02E-05	4,75E-05	3,10E-09	-2,32E-04
GWP - total	kg CO ₂ ekv.	3,56E+00	1,66E-04	ND	ND	ND	ND	ND	ND	ND	ND	5,79E-02	4,29E-02	2,45E-02	1,39E-05	-4,36E-01
ODP	kg CFC 11 ekv.	6,16E-07	3,85E-11	ND	ND	ND	ND	ND	ND	ND	ND	1,23E-08	9,62E-09	3,31E-09	6,83E-12	-2,07E-08
AP	mol H ⁺ ekv.	1,98E-02	6,75E-07	ND	ND	ND	ND	ND	ND	ND	ND	6,00E-04	1,70E-04	2,96E-04	1,35E-07	-2,80E-03
EP-freshwater	kg P ekv.	1,45E-03	1,07E-08	ND	ND	ND	ND	ND	ND	ND	ND	1,92E-06	3,22E-06	1,58E-05	7,86E-10	-7,38E-05
EP- marine	kg N ekv.	3,97E-03	2,03E-07	ND	ND	ND	ND	ND	ND	ND	ND	2,65E-04	4,95E-05	6,72E-05	5,11E-08	-6,68E-04
EP - terrestrial	mol N ekv.	3,98E-02	2,22E-06	ND	ND	ND	ND	ND	ND	ND	ND	2,91E-03	5,41E-04	7,52E-04	5,61E-07	-7,51E-03
POCP	kg NMVOC ekv.	1,45E-02	6,80E-07	ND	ND	ND	ND	ND	ND	ND	ND	8,00E-04	1,66E-04	2,08E-04	1,61E-07	-3,16E-03
ADP- minerals& metals*	kg Sb ekv.	3,36E-05	5,78E-10	ND	ND	ND	ND	ND	ND	ND	ND	4,32E-08	1,95E-07	2,95E-06	2,69E-11	-3,26E-07
ADP-fossil*	MJ	4,09E+01	2,51E-03	ND	ND	ND	ND	ND	ND	ND	ND	8,04E-01	6,39E-01	3,44E-01	4,46E-04	-2,71E+00
WDP*	m ³	1,06E+00	7,52E-06	ND	ND	ND	ND	ND	ND	ND	ND	1,35E-03	2,12E-03	4,54E-03	1,41E-06	-1,99E-02

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.

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 ekv.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PM	Disease incidence	3,04E-07	1,43E-11	ND	ND	ND	ND	ND	ND	ND	ND	1,61E-08	3,19E-09	3,98E-09	3,00E-12	-4,83E-08
IRP	kBq U235 ekv.	2,05E-01	1,29E-05	ND	ND	ND	ND	ND	ND	ND	ND	4,32E-03	3,39E-03	3,53E-03	2,15E-06	-1,61E-02
ETP- fw	CTUe	9,77E+01	1,96E-03	ND	ND	ND	ND	ND	ND	ND	ND	4,71E-01	5,21E-01	1,26E+00	2,47E-04	-1,46E+01
HTP-c	CTUh	1,62E-08	6,35E-14	ND	ND	ND	ND	ND	ND	ND	ND	1,86E-11	1,91E-11	4,25E-11	5,64E-15	-1,14E-09
HTP- nc	CTUh	9,89E-08	2,06E-12	ND	ND	ND	ND	ND	ND	ND	ND	3,45E-10	5,27E-10	1,86E-09	1,17E-13	-2,27E-08
SQP	dimensionless	3,90E+01	1,73E-03	ND	ND	ND	ND	ND	ND	ND	ND	1,17E-01	3,77E-01	6,35E-01	9,93E-04	-7,33E-01
Acronyms	<p>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 CO₂ 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</p>															

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 CO₂ is set to zero.

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	8,68E+00	3,54E-05	ND	ND	ND	ND	ND	ND	ND	ND	1,63E-02	1,08E-02	5,34E-02	9,09E-06	-1,23E-01
PERM	MJ	0,00E+00	0,00E+00	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	8,68E+00	3,54E-05	ND	ND	ND	ND	ND	ND	ND	ND	1,63E-02	1,08E-02	5,34E-02	9,09E-06	-1,23E-01
PENRE	MJ	4,34E+01	2,67E-03	ND	ND	ND	ND	ND	ND	ND	ND	8,53E-01	6,78E-01	3,65E-01	4,74E-04	-2,87E+00
PENRM	MJ	0,00E+00	0,00E+00	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	4,34E+01	2,67E-03	ND	ND	ND	ND	ND	ND	ND	ND	8,53E-01	6,78E-01	3,65E-01	4,74E-04	-2,87E+00
SM	kg	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	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	0,00E+00	0,00E+00	ND	ND	ND	ND	ND	ND	ND	ND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00

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

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	0	0	ND	ND	ND	ND	ND	ND	ND	ND	0	0	0	0	0
Non-hazardous waste disposed	kg	1,49E-01	0	ND	ND	ND	ND	ND	ND	ND	ND	0	0	0	3,25E-03	0
Radioactive waste disposed	kg	0	0	ND	ND	ND	ND	ND	ND	ND	ND	0	0	0	0	0

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	0	ND	ND	ND	ND	ND	ND	ND	ND	0	0	0	0	0
Material for recycling	kg	1,49E-01	0	ND	ND	ND	ND	ND	ND	ND	ND	0	0	9,97E-01	0	9,97E-01
Materials for energy recovery	kg	0	0	ND	ND	ND	ND	ND	ND	ND	ND	0	0	0	0	0
Exported energy, electricity	MJ	0	0	ND	ND	ND	ND	ND	ND	ND	ND	0	0	0	0	0
Exported energy, thermal	MJ	0	0	ND	ND	ND	ND	ND	ND	ND	ND	0	0	0	0	0

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.

Other environmental performance indicators

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Additional environmental information

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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+A2:2020 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 14063:2007 Environmentální management - Environmentální komunikace - Směrnice a příklady (Environmental management - Environmental communication - Guidelines and examples)
- ČSN EN 15643-1:2011 Udržitelnost staveb - Posuzování udržitelnosti budov - Část 1: Obecný rámec (Sustainability of construction works - Sustainability assessment of buildings - Part 1: General framework)
- ČSN EN 15643-2:2011 Udržitelnost staveb - Posuzování udržitelnosti budov - Část 2: Rámec pro posuzování environmentálních vlastností (Sustainability of construction works - Assessment of buildings - Part 2: Framework for the assessment of environmental performance)
- ČSN EN 15942:2013 Udržitelnost staveb - Environmentální prohlášení o produktu - Formát komunikace mezi podniky (Sustainability of construction works - Environmental product declarations - Communication format business-to-business)
- TNI CEN/TR 15941:2012 Udržitelnost staveb - Environmentální prohlášení o produktu - Metodologie výběru a použití generických dat (Sustainability of construction works - Environmental product declarations - Methodology for selection and use of generic data)
- 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),
- SimaPro LCA Package, Pré Consultants, the Netherlands, www.pre-sustainability.com
- Ecoinvent Centre, www.Ecoinvent.org
- Explanatory documents are available from the head of Technical Support of the EPD owner.