Environmental Product Declaration

In accordance with ISO 14025 and EN 15804:2012+A2:2019 for:

Uptec PEDESTALS FOR FLOATING FLOOR

EPD[®]

from

Profilitec spa





Programme: Programme operator: EPD registration number: Publication date: Valid until:

The International EPD® System, <u>www.environdec.com</u> EPD International AB S-P-02374 2021-01-13 2025-12-07

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com





General information

Programme information

Programme:	The International EPD [®] System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
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CEN standard EN 15804 serves as the Core Product Category Rules (PCR)

Product category rules (PCR): PCR 2019-14 PCR Construction products v1.1. - UN CPC code 3699 "Article of plastics"

PCR review was conducted by: IVL Swedish Environmental Research Institute, Secretariat of the International EPD® System - *Martin Erlandsson, martin.erlandsson@ivl.se*

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

 \boxtimes EPD process certification \boxtimes EPD verification

Third party verifier: Adriana Del Borghi, individual verifier Approved by: The International EPD[®] System

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

 \boxtimes Yes \Box No

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

EPDs within the same product category but from different programmes may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804. For further information about comparability, see EN 15804 and ISO 14025.





Company information

Owner of the EPD: Profilitec SpA, Via Scotte, 3 · 36033 Isola Vicentina (VI) - Italy

Contact: Ing. Roberto Zaniol – r.zaniol@profilitec.com

Description of the organisation: Profilitec SpA

Profilitec started off producing profiles for rugs and carpets: it was the first in Italy to do so. In the '80s, when Italian houses used easy-to-clean, yet fragile ceramic tile flooring, our profiles trimmed the tile edges, protecting them and making them more resistant. Moreover Profilitec gave function new aesthetic value, by studying new colors, shapes and finishes to meet market needs and set the bar high. The company grew year after year, diversifying and proposing an increasingly larger range of profiles for wall and floor coverings, in residential and industrial settings, to which we integrated installation systems even more innovative and functional, all with the aim of making the installer's job easier and

more efficient.

This evolution grew stronger roots in 2007, with a complete company overhaul, aiming to take our great innovative capacity to installers all over the world. With this objective in mind, Profilitec began the process of widespread internationalization, exploring each market one by one to understand its specific needs and offer complete, personalized solutions.

In 2017 Profilitec's American subsidiary was opened, hence acquiring, year after year, more clients and greater presence. Simultaneously, Profilitec also reorganized the company structure with a flexible organization, able to read the needs of the market and transform them into new products and installation systems.

Profilitec's number of patents and inventions is impressive: since 1966 we have acquired over 50 patents, with an increasing number in recent years. Profilitec created a new team of engineers in 2015 dedicated to the research and development of high-performance solutions for wall and floor covering installations and systems. The company collaborates with the best private research laboratories and universities to test products and solutions, which are submitted to rigid Italian and international test protocols.

Profilitec has been putting a great effort in simplifying the job of installers, as well as to provide designers, architects and engineers with values that go beyond simple functionality: beauty and exclusivity.





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In our continuous study of aesthetic form and functionality, we never overlook the sustainability of the products we sell. We consider the entire manufacturing process, which ends in installation, but also include volume logistics, production costs and overall consumption full life cycle assessments including logistics and disposal.

Product-related or management system-related certifications:

ISO 9001:2015 Quality management System

Name and location of production site(s): Profilitec S.p.A., Isola Vicentina (VI) - Italy

Website: www.profilitec.com





Product information

Product name: Uptec

Product identification: pedestals for raised floors

Product description:

Uptec is a patented system made of recycled polypropylene that allows the creation of raised floors in ceramic, natural stone, agglomerates or wood, using only 3 principal components with a minimum height of 28 mm.

The product is adjustable (with the key supplied) through a threaded system that allows it to cover a first range of heights, then through a modular element it is possible to reach greater heights simply by adding a component (the modular ring).





Uptec has a mechanism that is activated through a ring nut that rotates on the head that allows to switch from a system with self-levelling head (indicated for making the slope on inclined surfaces that you want to make flat) to one with fixed head indicated where the self-levelling system does not it works correctly because of the unbalanced action on the head of the foot of the floor surface (along the perimeter of the installation where it is necessary to cut the slabs and therefore elements of different weight are found to act in an unbalanced way on the foot).

The product can be used to create applications with joints between the floor elements of 2 or 4 mm, rather than for the installation of wooden floors on a wooden joist or ceramic slabs on aluminium joists, simply by changing the "flap" accessory.

The load resistance of the product is approximately 14 kN (1,400 Kg) (with small variations between the different models depending on the field of application in which it is tested), much higher than the breaking load of traditional ceramic tiles which is about 7kN (700Kg).

Resistance is guaranteed for a temperature range between -20 $^\circ$ C and 75 $^\circ$ C.

The product has a two-component rubber on the head which allows noise reduction from 77dB to 52dB and it has a base with comfortable pre-cuts that allow easy installation in the edges and corners.





The system is equipped with a complete series of perimeter profiles that allow you to finish the raised floors in an elegant and safe way through profiles and perimeter edges.

The UPTEC family consists of 2 types of pedestals:

- the SUPAL model which has a height range of 28-43mm;
- the SUPAS model which in the starting configuration has a range of 43 58mm, but could reach 538mm with the addition of supplementary rings (SUPAR)

This EPD will report only the results for the following options:

- SUPAL model (28-43mm) with SUPA4/SUPA2¹ accessory
- SUPAS model 88-118 mm with SUPA4/SUPA2² accessory.



¹ SUPA4 shows an impact that is marginally higher (max -0,2% for Climate Change impact category) than SUPA2, so they will be both represented by SUPA4 figures

² SUPAS model 88-118 mm shows an impact that is higher than the lower heights (from 43 to 88 mm), so the whole range 43-118 mm is represented by SUPAS 88-118 mm figures





Here follows a short description of each component of the Uptec solutions.







SUPAR UPTEC EXTENSION RING



Uptec SUPAR is a stackable ring used in combination with the standard support, SUPAS from 2-9/32" (58 mm) up. Each extension ring is 1-3/16" (30 mm). SUPAR has been designed to be easily assembled, thanks to the symbols placed both on the ring and on the base of the support (open padlock / closed padlock). It can be used individually or as a combination of multiple SUPAR until it reaches the desired height.

SUPA2 UPTEC HEAD WITH 2MM SPACERS



The Uptec SUPA2 accessory, with 5/64"- 2 mm spacers (ideally to create 5/64"- 2 mm joints), is made of a two-component material: polypropylene for spacers and thermoplastic elastomer on the head to guarantee a noise-reducing and anti-slip characteristic. The spacers can be removed using the SUPAK key depending on the floor configuration.

SUPA4 UPTEC HEAD WITH 4MM SPACERS AND TO BE USED WITH ALUMINUM JOIST



The Uptec SUPA4 accessory, with 4mm spacers (ideally to create 5/32" - 4 mm joints), is made of a two-component material: polypropylene for spacers and thermoplastic elastomer on the head to guarantee a noise-reducing and anti-slip characteristic. The SUPA4 is also used in combination with the aluminum joist SUPAAN240. The spacers can be removed using the SUPAK key depending on the floor configuration.





SUPAW UPTEC HEAD TO BE FIXED ON WOODEN JOISTS FOR WOODEN DECKING



The SUPAW head is ideal for laying wood on a wooden joist. The special slots located along the flap allow rapid fixing to the joist with standard screws. The hooks located under the base of the flap allow easy attachment to the pedestal and possible removal from it.

The complete range of Uptec solutions is reported below:

UPTEC components	Low pedestal	Standard pedestal	Modular ring	Tabs ³
	SUPAL	SUPAS	SUPAR	SUPA2 SUPAA SUPAW
		S	R	$\begin{array}{c} \bullet \\ \bullet $
Floor elevation	28+43 mm 1·3/32/=1·11/16*	da 43= mm fron 1-11/16*='	+ 30 mm + 1-3/16*	tidad (doith) dalam Atatardadolu / dalam 2 mm-3/32
28-43	1 piece			1 piece
43-58		1 piece		1 piece
58-88		1 piece	1 piece	1 piece
88-118		1 piece	2 pieces	1 piece
118-148		1 piece	3 pieces	1 piece
148-178		1 piece	4 pieces	1 piece
178-208		1 piece	5 pieces	1 piece
208-238		1 piece	6 pieces	1 piece
238-268		1 piece	7 pieces	1 piece
268-298		1 piece	8 pieces	1 piece
298-328		1 piece	9 pieces	1 piece
328-358		1 piece	10 pieces	1 piece
358-388		1 piece	11 pieces	1 piece
388-418		1 piece	12 pieces	1 piece
418-448		1 piece	13 pieces	1 piece
448-478		1 piece	14 pieces	1 piece
478-508		1 piece	15 pieces	1 piece
508-538		1 piece	16 pieces	1 piece

 $^{^3}$ SUPA2/SUPA4/SUPAW tabs are used alternatively according to the floor materials



The total mass of the declared unit (1 m2) is reported in the following table.

Components	Low pedestal	Standard pedestal	Modular ring	Tabs		Weight (kg)	
Floor elevation	SUPAL	SUPAS	SUPAR R + 30 mm + 13/16'	SUPA2 SUPA4 SUPA4 SUPAW A SUPAW A SUPAW A SUPAW A SUPAW SUPAW A	SUPA2	SUPA4	SUPAW
28-43	Х			Х	0,732	0,735	0,753
43-58		Х		Х	0,742	0,745	0,763
58-88		Х	Х	Х	0,997	1,000	1,018
88-118		Х	Х	Х	1,252	1,255	1,273
118-148		Х	Х	Х	1,507	1,510	1,528
148-178		Х	Х	Х	1,762	1,764	1,782
178-208		Х	Х	Х	2,017	2,019	2,037
208-238		Х	Х	Х	2,271	2,274	2,292
238-268		Х	Х	Х	2,526	2,529	2,547
268-298		Х	Х	Х	2,781	2,784	2,802
298-328		Х	Х	Х	3,036	3,039	3,057
328-358		Х	Х	Х	3,291	3,294	3,312
358-388		Х	Х	Х	3,546	3,548	3,566
388-418		Х	Х	Х	3,800	3,803	3,821
418-448		Х	Х	Х	4,055	4,058	4,076
448-478		Х	Х	Х	4,310	4,313	4,331
478-508		Х	Х	Х	4,565	4,568	4,586
508-538		Х	Х	Х	4,820	4,823	4,841

UN CPC code: CPC 3699 "Article of plastics"





LCA information

<u>Functional unit / declared unit:</u> The declared unit is 1 m^2 of raised floor installed by means of Uptec pedestals⁴.

<u>Reference service life:</u> The reference service life for the use phase is set at 30 years.

Time representativeness: primary data collected refer to year 2019

<u>Database(s) and LCA software used:</u> Ecoinvent 3.6 database was used for secondary data. Sima Pro 9.1.0.8 software was used for the LCA model and the elaboration of the results.

Description of system boundaries:

According to EN 15084:2019 (section 6.3.3), Profilitec opted for EPD type b "Cradle to gate with options", (A1-A3 + C + D), with the following additional modules included in the system boundaries:

- A4 Transport (Construction process stage)
- A5 Construction installation
- B1 Use
- B2 Maintenance
- B3 Repair
- B4 Replacement
- B5 Refurbishment
- B6 Operational energy use
- B7 Operational water use.

System diagram:

 $^{^{\}rm 4}$ 2.77 pieces of UPTEC are needed to install 1 m2 of raised floor.



More information: more information about Uptec solution can be found at profilitec, com website.

Uptec underlying LCA study has been carried out by Matteo Donelli (<u>matteo.donelli@ergosrl.net</u>) on behalf of ERGO srl, Spin Off Company of the Sant'Anna School of Advanced Studies of Pisa (ergosrl.net).

The distribution scenario reflects the weighted average worldwide market distribution of the Uptec solution in the period 2018-2020 as reported in the following graphic:





Electricity in module A3 accounts for more than 30% of the total energy in stage A1 to A3. The energy sources behind the electricity grid⁵ in module A3, and the relevant climate impact (g CO2 eq./kWh) are the following:



Climate change impact of electricity used in module A3:

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499,31 g CO2 eq./kWh

⁵ Data based on Italian electricity mix in year 2016 (Ecoinvent 3.6)





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

	Pro sta	duct ige	Co pro	nstruct cess st	ion age			U	se sta	ge			Er	nd of li	fe sta	ge	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	х	х	х	х	х	х	х	х	х	х	х	х	Х	х	х	х	Х
Geography	IT	IT	IT	WW ⁶	ww	ww	ww	ww	ww	ww	ww	ww	ww	ww	ww	ww	ww
Specific data	Scena	Specifi ario (base sustomer	SC ⁷	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC	SC			
Variation – products						-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites						-	-	-	-	-	-	-	-	-	-	-	-

⁶ WW = Worldwide

 $^{^7}$ SC = Scenario (based on weighted average customer location) for B1-B7, C1-C4 and D





Content information

Product components	Weight, kg / m ²	Post-consumer material, weight-%	Renewable material, weight-%
SUPAL - UPTEC LOW HEIGHT PEDESTAL - Polypropylene	0,609	98,7%	0%
SUPAL - UPTEC LOW HEIGHT PEDESTAL - ABS	0,139	100,0%	0%
SUPAS UPTEC STANDARD PEDESTAL - Polypropylene	0,673	98,8%	0%
SUPAS UPTEC STANDARD PEDESTAL - ABS	0,139	100,0%	0%
SUPAR UPTEC EXTENSION RING - Polypropylene	0,255	100,0%	0%
SUPA2 UPTEC HEAD WITH 2MM SPACERS - Polypropylene	0,018	100,0%	0%
SUPA2 UPTEC HEAD WITH 2MM SPACERS – Thermoplastic rubber	0,053	100,0%	0%
SUPA4 UPTEC HEAD WITH 4MM SPACERS – Polypropylene	0,021	100,0%	0%
SUPA4 UPTEC HEAD WITH 4MM SPACERS – Thermoplastic rubber	0,053	100,0%	0%
SUPAW UPTEC HEAD to be fixed on wooden joists for wooden decking – Polypropylene	0,091	100,0%	0%
TOTAL – UPTEC SUPAL 28-43 mm (with SUPA4 head)	0,682	98,8%	0%
TOTAL – UPTEC SUPAS 88-118 mm (with SUPA4 head)	1,511	99,5%	0%
Packaging materials	Weight, kg / m ²	Weight-% (versus the	product)
Corrugated board box - SUPAL 28-43 mm (with SUPA4 head)	0,048	6,5	%
Polyethylene plastic bag - SUPAL 28-43 mm (with SUPA4 head)	0,004	0,5'	%
Corrugated board box - SUPAS 88-118 mm	0,054	4,3'	%
Polyethylene plastic bag - SUPAS 88-118 mm	0,004	0,32	%
Corrugated board box - SUPA4 head	0,0076	1,0% (for SUPAL) – (0,06% (for SUPAS)
TOTAL – UPTEC SUPAL 28-43 mm (with SUPA4 head)	0,0596	8,10	%
TOTAL – UPTEC SUPAS 88-118 mm (with SUPA4 head)	0,0656	5,22	%

Dangerous substances from the candidate list of SVHC for Authorisation	EC No.	CAS No.	Weight-% per declared unit
No dangerous substance is included in the product content	-	-	0%





Environmental Information

Potential environmental impact – mandatory indicators according to EN 15804

		I	Results	per dec	lared ur	nit: 1m² o	f raised f	loor ·	- Upteo	SUPA	L 28	-43 mr	n (witł	n SUPA:	2/SUI	PA4 tab)			
Indicator	Unit	A1	A2	A3	Tot.A 1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-fossil	kg CO ₂ eq.	0,670	0,003	0,002	0,675	0,037	0,036	-	-	-	-	-	-	-	-	0,048	0,685	0,035	-0,705
GWP-biogenic	kg CO ₂ eq.	0,621	0,003	0,002	0,625	0,037	0,024	-	-	-	-	-	-	-	-	0,048	0,666	0,035	-0,689
GWP- luluc	kg CO ₂ eq.	0,048	0,000	0,000	0,049	-0,000	0,011	-	-	-	-	-	-	-	-	0,000	0,018	0,000	-0,016
GWP- total	kg CO ₂ eq.	0,0007	0,0000	0,0000	0,0007	0,0000	0,0002	-	-	-	-	-	-	-	-	0,0000	0,0001	0,0000	-0,0004
ODP	kg CFC 11 eq.	0,0000	0,0000	0,0000	0,0000	0,0000	0,0000	-	-	-	-	-	-	-	-	0,0000	0,0000	0,0000	-0,0000
AP	mol H⁺ eq.	0,0032	0,0000	0,0000	0,0032	0,0003	0,0002	-	-	-	-	-	-	-	-	0,0003	0,0004	0,0000	-0,0025
EP-freshwater	kg PO4 ³⁻ eq.	0,0006	0,0000	0,0000	0,0006	0,0000	0,0001	-	-	-	-	-	-	-	-	0,0000	0,0002	0,0013	-0,0003
EP- marine	kg N eq.	0,0005	0,0000	0,0000	0,0005	0,0001	0,0001	-	-	-	-	-	-	-	-	0,0001	0,0001	0,0002	-0,0005
EP-terrestrial	mol N eq.	0,0065	0,0000	0,0000	0,0065	0,0011	0,0005	-	-	-	-	-	-	-	-	0,0014	0,0013	0,0001	-0,0047
POCP	kg NMVOC eq.	0,0015	0,0000	0,0000	0,0015	0,0003	0,0001	-	-	-	-	-	-	-	-	0,0005	0,0004	0,0000	-0,0020
ADP-minerals & metals [*]	kg Sb eq.	2E-06	5E-08	3E-09	2E-06	3E-08	4E-07	-	-	-	-	-	-	-	-	3E-07	1E-06	2E-08	-3E-06
ADP-fossil*	MJ	9,461	0,046	0,027	9,534	0,511	0,372	-	-	-	-	-	-	-	-	0,634	1,333	0,064	-16,068
WDP	m ³	0,394	0,000	0,001	0,395	0,000	0,011	-	-	-	-	-	-	-	-	0,000	0,030	0,000	-0,324

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.



		R	lesults p	oer decl	lared un	it: 1m ² of	raised fl	oor -	Uptec	SUPA	S 88-	118 m	m (wit	h SUPA	2/SU	PA4 tab)			
Indicator	Unit	A1	A2	A3	Tot.A 1-A3	A4	A5	B1	B2	B3	В4	B5	B6	B7	C1	C2	C3	C4	D
GWP-fossil	kg CO ₂ eq.	1,120	0,005	-	1,125	0,070	0,096	-	-	-	-	-	-	-	-	0,088	1,237	0,065	- 0,986
GWP-biogenic	kg CO ₂ eq.	1,041	0,005	-	1,046	0,070	0,066	-	-	-	-	-	-	-	-	0,088	1,210	0,065	- 0,948
GWP- luluc	kg CO ₂ eq.	0,078	0,000	-	0,078	- 0,000	0,030	-	-	-	-	-	-	-	-	0,000	0,027	0,000	- 0,037
GWP- total	kg CO ₂ eq.	0,0013	0,0000	-	0,0013	0,0000	0,0006	-	-	-	-	-	-	-	-	0,0000	0,0001	0,0000	- 0,0010
ODP	kg CFC 11 eq.	0,0000	0,0000	-	0,0000	0,0000	0,0000	-	-	-	-	-	-	-	-	0,0000	0,0000	0,0000	- 0,0000
AP	mol H⁺ eq.	0,0054	0,0000	-	0,0054	0,0005	0,0005	-	-	-	-	-	-	-	-	0,0005	0,0007	0,0000	- 0,0036
EP-freshwater	kg PO4 ³⁻ eq.	0,0010	0,0000	-	0,0010	0,0000	0,0003	-	-	-	-	-	-	-	-	0,0000	0,0003	0,0023	- 0,0005
EP- marine	kg N eq.	0,0010	0,0000	-	0,0010	0,0002	0,0002	-	-	-	-	-	-	-	-	0,0002	0,0002	0,0003	- 0,0007
EP-terrestrial	mol N eq.	0,0113	0,0000	-	0,0113	0,0022	0,0013	-	-	-	-	-	-	-	-	0,0025	0,0021	0,0002	- 0,0072
POCP	kg NMVOC eq.	0,0026	0,0000	-	0,0026	0,0005	0,0004	-	-	-	-	-	-	-	-	0,0009	0,0006	0,0001	- 0,0028
ADP-minerals & metals [*]	kg Sb eq.	4E-06	9E-08	0E+00	4E-06	5E-08	1E-06	-	-	-	-	-	-	-	-	5E-07	2E-06	4E-08	-5E-06
ADP-fossil*	MJ	15,780	0,083	-	15,863	0,975	1,010	-	-	-	-	-	-	-	-	1,156	1,974	0,119	- 23,461
WDP	m ³	0,644	0,000	-	0,644	0,000	0,031	-	-	-	-	-	-	-	-	0,000	0,044	0,001	- 0,424

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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.





Potential environmental impact – additional mandatory and voluntary indicators

		I	Results p	er declar	ed unit: 1m	² of raised	floor - Upte	c SU	PAL	28-4	3 mr	n (wi	th SI	JPA	2/SU	PA4 tab)			
Indicator	Unit	A1	A2	A3	Tot.A1-A3	A4	A5	B1	B2	B3	B 4	B5	B 6	B7	C1	C2	C3	C4	D
GWP-GHG ⁸	kg CO ₂ eq.	0,621	0,003	0,002	0,626	0,037	0,025	-	-	-	-	-	-	-	-	0,048	0,667	0,035	-0,689
Particulate matter	disease inc.	1,6E-08	2,5E-10	3,5E-11	1,7E-08	6,4E-10	5,6E-09	-	-	-	-	-	-	-	-	6,5E-09	4,3E-09	4,4E-10	-2,6E-08
lonising radiation	kBq U-235 eq	7,5E-02	2,4E-04	2,3E-04	7,5E-02	3,0E-04	5,2E-03	-	-	-	-	-	-	-	-	2,9E-03	1,8E-02	4,0E-04	-9,4E-03
Ecotoxicity, freshwater	CTUe	1,3E+01	3,7E-02	1,9E-02	1,3E+01	4,6E-02	1,6E+00	-	-	-	-	-	-	-	-	3,4E-01	2,7E+00	6,4E-02	-1,2E+01
Human toxicity, cancer	CTUh	1,5E-10	9,0E-13	3,9E-13	1,5E-10	3,9E-12	2,1E-11	-	-	-	-	-	-	-	-	5,5E-12	1,0E-10	1,6E-12	-1,5E-10
Human toxicity, non- cancer	CTUh	4,2E-09	4,0E-11	1,1E-11	4,3E-09	9,6E-11	4,8E-10	-	-	-	-	-	-	-	-	2,5E-10	2,1E-09	3,8E-11	-4,2E-09
Land use	Pt	4,8E+00	5,3E-02	7,2E-03	4,8E+00	6,6E-03	4,9E+00	-	-	-	-	-	-	-	-	1,1E-01	7,6E-01	1,6E-01	-5,6E-01

		R	esults pe	er declare	d unit: 1m ²	of raised	floor - Upteo	: SUI	PAS	88-1 1	18 m	m (w	ith S	UPA	2/SU	PA4 tab)			
Indicator	Unit	A1	A2	A3	Tot.A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG ⁹	kg CO ₂ eq.	3,1E-08	4,5E-10	0,0E+00	3,2E-08	1,2E-09	1,5E-08	-	-	-	-	-	-	-	-	1,2E-08	6,5E-09	8,2E-10	-3,5E-08
Particulate matter	disease inc.	1,2E-01	4,2E-04	0,0E+00	1,2E-01	5,7E-04	1,4E-02	-	-	-	-	-	-	-	-	5,3E-03	2,6E-02	7,4E-04	-1,9E-02
lonising radiation	kBq U-235 eq	3,0E+01	6,6E-02	0,0E+00	3,0E+01	8,7E-02	4,3E+00	-	-	-	-	-	-	-	-	6,2E-01	3,9E+00	1,1E-01	-2,5E+01
Ecotoxicity, freshwater	CTUe	2,7E-10	1,6E-12	0,0E+00	2,7E-10	7,4E-12	5,8E-11	-	-	-	-	-	-	-	-	1,0E-11	1,6E-10	2,9E-12	-2,2E-10

⁸ The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.

⁹ The indicator includes all greenhouse gases included in GWP-total but excludes biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. This indicator is thus equal to the GWP indicator originally defined in EN 15804:2012+A1:2013.





Human toxicity, cancer	CTUh	7,6E-09	7,2E-11	0,0E+00	7,6E-09	1,8E-10	1,3E-09	-	-	-	-	-	-	-	-	4,6E-10	3,2E-09	6,8E-11	-6,4E-09
Human toxicity, non- cancer	CTUh	1,0E+01	9,5E-02	0,0E+00	1,0E+01	1,3E-02	1,4E+01	-	-	-	-	-	-	-	-	2,0E-01	1,1E+00	3,0E-01	-1,2E+00
Land use	Pt	3,1E-08	4,5E-10	0,0E+00	3,2E-08	1,2E-09	1,5E-08	-	-	-	-	-	-	-	-	1,2E-08	6,5E-09	8,2E-10	-3,5E-08

Use of resources

Acronyms

		F	Results	per dec	lared ur	nit: 1m² o	f raised f	loor ·	- Upte	c SUPA	L 28-	-43 mr	n (with	n SUPA	2/SU	PA4 tab)			
Indicator	Unit	A1	A2	A3	Tot.A 1-A3	A4	A5	B1	B2	B3	B4	B5	B 6	B7	C1	C2	C3	C4	D
PERE	MJ	2,456	0,001	0,007	2,463	0,001	0,930	-	-	-	-	-	-	-	-	0,003	0,130	0,002	- 0,192
PERM	MJ	0,001	0,000	0,000	0,001	0,000	0,000	-	-	-	-	-	-	-	-	0,000	0,000	0,000	- 0,000
PERT	MJ	2,456	0,001	0,007	2,463	0,001	0,931	-	-	-	-	-	-	-	-	0,003	0,130	0,002	- 0,192
PENRE	MJ	9,461	0,046	0,027	9,534	0,511	0,372	-	-	-	-	-	-	-	-	0,634	1,333	0,064	- 16,068
PENRM	MJ.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PENRT	MJ	9,461	0,046	0,027	9,534	0,511	0,372	-	-	-	-	-	-	-	-	0,634	1,333	0,064	- 16,068
SM	kg	0,711	-	-	0,711	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RSF	MJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF	MJ	0,010	0,000	0,000	0,010	0,000	0,000	-	-	-	-	-	-	-	-	0,000	0,001	0,000	- 0,008
FW	m ³	2,456	0,001	0,007	2,463	0,001	0,930	-	-	-	-	-	-	-	-	0,003	0,130	0,002	- 0,192

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



Acronyms

	Results per declared unit: 1m ² of raised floor - Uptec SUPAS 88-118 mm (with SUPA2/SUPA4 tab)																		
Indicator	Unit	A1	A2	A3	Tot.A 1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	4,461	0,001	-	4,463	0,002	2,556	-	-	-	-	-	-	-	-	0,006	0,191	0,004	- 0,370
PERM	MJ	0,001	0,000	-	0,001	0,000	0,001	-	-	-	-	-	-	-	-	0,000	0,000	0,000	- 0,000
PERT	MJ	4,463	0,001	-	4,464	0,002	2,557	-	-	-	-	-	-	-	-	0,006	0,191	0,004	- 0,370
PENRE	MJ	15,780	0,083	-	15,863	0,975	1,010	-	-	-	-	-	-	-	-	1,156	1,974	0,119	- 23,461
PENRM	MJ.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PENRT	MJ	15,780	0,083	-	15,863	0,975	1,010	-	-	-	-	-	-	-	-	1,156	1,974	0,119	- 23,461
SM	kg	0,711	-	-	0,711	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RSF	MJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NRSF	MJ	0,016	0,000	-	0,016	0,000	0,001	-	-	-	-	-	-	-	-	0,000	0,001	0,000	- 0,010
FW	m ³	4,461	0,001	-	4,463	0,002	2,556	-	-	-	-	-	-	-	-	0,006	0,191	0,004	- 0,370

PERE = Use of renewable primary energy excluding 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; Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy resources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

EPD[®]





Waste production and output flows

Waste production

		F	Results p	er declar	ed unit: 1m	² of raised	floor - Upte	c SU	PAL	28-4	3 mn	n (wi	th Sl	JPA	2/SUI	PA4 tab)			
Indicator	Unit	A1	A2	A3	Tot.A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	9,5E-06	1,1E-07	2,6E-08	9,7E-06	4,9E-08	4,4E-07	-	-	-	-	-	-	-	-	2,3E-07	1,9E-06	7,8E-08	-2,0E-06
Non- hazardous waste disposed	kg	5,0E-02	4,0E-03	7,9E-05	5,4E-02	1,1E-04	1,5E-02	-	-	-	-	-	-	-	-	3,1E-03	4,5E-02	2,8E-01	-3,1E-02
Radioactive waste disposed	kg	2,6E-05	3,2E-07	7,4E-08	2,6E-05	3,3E-07	1,8E-06	-	-	-	-	-	-	-	-	4,5E-06	6,8E-06	4,1E-07	-3,9E-06

	Results per declared unit: 1m ² of raised floor - Uptec SUPAS 88-118 mm (with SUPA2/SUPA4 tab)																		
Indicator	Unit	A1	A2	A3	Tot.A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste disposed	kg	1,6E-05	2,0E-07	0,0E+00	1,7E-05	9,3E-08	1,2E-06	-	-	-	-	-	-	-	-	4,1E-07	3,0E-06	1,5E-07	-3,9E-06
Non- hazardous waste disposed	kg	9,4E-02	7,2E-03	0,0E+00	1,0E-01	2,1E-04	3,7E-02	-	-	-	-	-	-	-	-	5,6E-03	6,7E-02	5,2E-01	-5,1E-02
Radioactive waste disposed	kg	4,4E-05	5,7E-07	0,0E+00	4,4E-05	6,2E-07	4,8E-06	-	-	-	-	-	-	-	-	8,2E-06	1,0E-05	7,7E-07	-7,8E-06

Output flows

Results per declared unit: 1m ² of raised floor - Uptec SUPAL 28-43 mm (with SUPA2/SUPA4 tab)																			
Indicator	Unit	A1	A2	A3	Tot.A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Material for recycling	kg	0,71	-	-	0,71	-	-	-	-	-	-	-	-	-	-	-	-	-	-





Materials for energy recovery	kg	0,18	-	-	0,18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exported energy, electricity	MJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exported energy, thermal	MJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	Results per declared unit: 1m ² of raised floor - Uptec SUPAS 88-118 mm (with SUPA2/SUPA4 tab)																		
Indicator	Unit	A1	A2	A3	Tot.A1-A3	A4	A5	B1	B2	В3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Material for recycling	kg	0,37	-	-	0,37	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Materials for energy recovery	kg	0,58	-	-	0,58	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exported energy, electricity	MJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exported energy, thermal	MJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Information on biogenic carbon content

Results per declared unit: 1m ² of raised floor – Uptec SUPAL 28-43 mm (with SUPA2/SUPA4 tab)										
BIOGENIC CARBON CONTENT	Unit	QUANTITY								
Biogenic carbon content in product	kg C	0								
Biogenic carbon content in packaging	kg C									

Results per declared unit: 1m ² of raised floor – Uptec SUPAS 88-118 mm (with SUPA2/SUPA4 tab)										
BIOGENIC CARBON CONTENT	Unit	QUANTITY								
Biogenic carbon content in product	kg C	0								
Biogenic carbon content in packaging	kg C									

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





Additional information

See sections 5.4, 7.3 and 7.4 in EN 15804

The modularity of the Uptec solution shows potential environmental advantages in comparison to the traditional systems of posing and dismantling floors. In fact, the Uptec solution:

- might help the recycling rate potential at the installed floor end of life, since the pedestals can be easily disassembled without being mixed with other materials during the dismantling phase;
- does not need, during the installation, use phase and dismantling, any additional material (i.e. water, adhesive, glue, etc.) or energy, being the installation process fully manual;
- optimizes the inventory space management and investment, being the whole range of Uptec solutions based on only 3 SKUs¹⁰;
- might help any maintenance need of technical installations serving the building, since they can be located underneath the raised floor and easily accessed;
- o is light in transport phase;
- does not release into the environment dust or substances harmful to the environment during its entire use phase.

Differences versus previous versions

This is the first version on the EPD.

References

General Programme Instructions of the International EPD[®] System. Version 3.01. PCR 2019-14 Construction products v1.1

¹⁰ SKU stands for stock keeping unit, that is a warehousing item that is unique because of some characteristic (such as brand, size, colour, model).

