ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	Simpson Strong-Tie Europe
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-SST-20210031-CBA1-EN
Issue date	23.03.2021
Valid to	22.03.2026

S&P Glasphalt[®] G (0.64 kg/m²) Simpson Strong-Tie Europe / S&P Clever Reinforcement



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General Information

Simpson Strong-Tie Europe / S&P Clever Reinforcement

Programme holder

IBU – Institut Bauen und Umwelt e.V. Panoramastr. 1 10178 Berlin Germany

Declaration number

EPD-SST-20210031-CBA1-EN

This declaration is based on the product category rules:

Reinforcing and securing systems made from glass fibre composite materials, 04.2018 (PCR checked and approved by the SVR)

Issue date

23.03.2021

Valid to 22.03.2026

am leten

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

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Dr. Alexander Röder (Managing Director Institut Bauen und Umwelt e.V.))

Product

Information about the enterprise

S&P Clever Reinforcement Company AG emerged from Scherer & Partner Bausysteme in 1995 in Brunnen, Switzerland. The company develops, produces and sells products that reinforce structures. S&P moved into a new administration building with a large warehouse in Seewen/SZ in 2010. S&P also has a branch in western Switzerland and companies in the Netherlands, France, Germany, Poland, Portugal, Spain, Denmark and Sweden.

S&P focuses on the strengthening of structures and the development of reinforcement solutions. Our products are manufactured at S&P production facilities and are sold directly to end-users. The core competence of the company lies in the static consulting of the systems that are sold. S&P also offers design programs for the static design of the reinforcement systems.

S&P Glasphalt[®] G

Owner of the declaration

Simpson Strong-Tie Europe Le Moulin des Ardillers 85400 Sainte Gemme La Plaine France

Declared product / declared unit

1 m² of S&P Glasphalt[®] G with the grammage of 0.64 kg/m².

Scope:

This document refers to the manufacture, transport and end-of-life stages of S&P Glasphalt[®] G for asphalt reinforcement by Simpson Strong-Tie Europe / S&P Clever Reinforcement. This product is produced at the manufacturing plant S&P Polska Sp. z. o.o. in Malbork for the S&P Group. The production data were recorded for the year 2019. This EPD declares the life cycle analysis (LCA) for a specific product from the manufacturer's plant.

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 14025:2010

externally

internally

Schindle

Angela Schindler (Independent verifier)

S&P is part of the Simpson Manufacturing Co., Inc., headquartered in Pleasanton, California, through its subsidiary, Simpson Strong-Tie Company Inc., designs, engineers and is a leading manufacturer of wood construction products, including connectors, fastening systems, fasteners and shearwalls, as well as concrete construction products, including adhesives, specialty chemicals, mechanical anchors, powder actuated tools and reinforcing fibre materials. The Company's common stock trades on the New York Stock Exchange under the symbol "SSD".

Product description/Product definition

S&P Glasphalt[®] G is a pre-bituminised asphalt reinforcement grid made of glass fibres for local and/or full surface reinforcement of bituminous surfaces.



WHERE TO USE

- Used against cracking
- Prevents crack reflection
- Increases the durability of asphalt surfaces
- The pre-bituminisation guarantees the required layer bonding between old and new road surfaces

PERFORMANCE FEATURES

- Minimises crack formation and prevents crack reflection
- Reduces fatigue and thermal cracks
- Lower consumption of tack coat thanks to the pre-bituminised grid
- Grid structure freely moveable through heat application (no fixed knots)
- Local application on existing cracks/joints or complete surface application
- No waiting time immediate road surface construction possible
- Easy and efficient application with unrolling equipment (also in curves)
- Effectiveness at a cover layer of min. 4 cm
- Can be milled and recycled without problems

Products according to the CPR based on an ETA

For the placing on the market of the product 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 taking into consideration *EN 15381:2008*, Geotextiles and geotextile-related products – Characteristics required for use in pavements and asphalt overlays and the CEmarking.

For the application and use the respective national provisions apply.

Application

- Apply S&P Glasphalt[®] G on dry surface, either by machine or manually, and if possible, immediately before the installation of the road surface.
- Apply at temperatures > 3 °C. Observe relevant norms for application of layers.
- Ensure overlapping lengths of 10–20 cm are observed.
- Overlapping of the reinforcement mesh should be optimised, according to the nature and location of joints/cracks, as well as wheel loading.
- If the mesh is applied only on local areas, it shall be covered manually with an asphalt layer. This prevents debonding caused by passing vehicles.
- Minimum covering of 4 cm above S&P Glasphalt[®] G.

Technical Data

S&P Glasphalt[®] G meets the requirements of *EN 15381* and is a glass fibre open grid which is fully penetrated and impregnated with bitumen to ensure an optimal bond between asphalt layers.

Constructional Data

Name	Value	Unit
E-Modulus (Longitudinal Glass Fibres)	≥73000	N/mm²
Elongation (Longitudinal Glass Fibres)	3 (±0.3)	%
Tensile Force (Longitudinal Glass Fibres)	120	kN/m
Fibre Cross Section (Longitudinal Glass Fibres)	46 (51 Fibre Strands)	mm²/m
E-Modulus (Transverse Glass Fibres)	≥73000	N/mm²
Elongation (Transverse Glass Fibres)	3 (±0.3)	%
Tensile Force (Transverse Glass Fibres)	120	kN/m
Fibre Cross Section (Transverse Glass Fibres)	47 (52 Fibre Strands)	mm²/m

(CE-marking according to EN 15381:2008)

Performance data of the product in accordance with the declaration of performance with respect to its essential characteristics according to *EN 15381:2008,* Geotextiles and geotextile-related products – Characteristics required for use in pavements and asphalt overlays.

Base materials/Ancillary materials

- Glass fibres ~ 38 %
- Bitumen ~ 41 %
- Quartz sand ~ 19 %
- Other ~ 2 %

(percentages by weight)

S&P Glasphalt® G is manufactured with glass fibres in both the longitudinal and transverse direction totalling 0.24 kg/m². The grids are manufactured with no fixed-knots, therefore making them freely moveable when heated up.

Following the manufacture of the grids, they are fully penetrated and impregnated with bitumen at a rate of approximately 0.26 kg/m². A sprinkling of quartz sand at a rate of approximately 0.12 kg/m² is applied onto the wet bitumen to reduce the risk of vehicle tyres bonding to the grid during the application process.

1) "This product contains substances listed in the *candidate list* (25.06.2020) exceeding 0.1 percentage by mass: "**No**"

2) "This product contains other carcinogenic, mutagenic, reptrotoxic (CMR) substances in categories



1A or 1B which are not on the *candidate list*, exceeding 0.1 percentage by mass: "**No**"

3) "Biocide products were added to this construction product or it has been treated with biocide products (this then concerns a treated product as defined by the *(EU) Ordinance on Biocide Products No. 528/2012)*: **"No**"

LCA: Calculation rules

Declared Unit

This declaration refers to the production of 1 m^2 of S&P Glasphalt[®] G reinforcement grid with a grammage of 0.64 kg/m².

Declared unit

Name	Value	Unit
Declared unit	1	m²
Grammage	0.64	kg/m²
Conversion factor to 1 kg	0.64	-

It is a specitic EPD.

System boundary

It is a cradle to gate EPD with options wherein module A1-A5, C1-C4 and D life cycle stages are considered.

Production

A1-A3: Extraction and manufacturing of all raw materials (basic and auxiliary) including packaging material followed by the transportation of raw materials and energy consumption from grid electricity and natural gas within manufacturing plant and landfill of wastes generated during manufacturing are considered in the scope of this module.

Transport to manufacturing site

A4: Average distance considered for the transport from the manufacturing plant to various construction sites

Installation

A5: It is estimated that there are no wastes disposed of during implementation as the waste generated are used as overlaps. Therefore, no losses are declared. The use of packaging material for the product is declared in EPDs in Module A1-A3 which is sent to waste incineration plant during installation stage

Reference service life

The reference service life (RSL) is not declared. A calculation according to *ISO 15686* is not applied.

(Module A5). Subsequent energy recovery credits are declared in module $\mathsf{D}.$

End-of-life Scenario: Recycling

C1: Dismantling / Demolition - As the products are used under pavements, they are collected as mixed construction waste for recycling after the end-of -life of the surface structures.

C2: Transport to treatment/disposal site - Average transport distance from demolition site to waste treatment (recycling) site.

C3: Waste processing for reuse, recovery or

recycling - Processing of construction waste to recycled material. The wastes are 100% recyclable according to an investigation commissioned by S&P (*Report No.: 14-7974-01*).

C4: Disposal - Since the products are recycled and reused in asphalt layers, there are no disposals.

Benefits and loads beyond the product system boundary

D: The potential benefits from packaging material in module A5 are declared. For waste incineration, combustion in a waste incineration plant (R1 > 0.6) with energy recuperation is considered. Recycling credits after the end-of-life of the product are considered.

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.

GaBi software serves as background database for the calculation.

LCA: Scenarios and additional technical information

Characteristic product properties Information on biogenic Carbon

The mass of packaging is declared in module A5 and associated biogenic carbon content is listed in the table below. There is no biogenic carbon content in the product.

Information on describing the biogenic Carbon Content at factury gate

Name	Value	Unit
Biogenic carbon content in product	0	kg C
Biogenic carbon content in accompanying packaging (Wooden Pallet)	0.0049	kg C

The following technical information is the basis for the declared modules.

Transport from the gate to the site (A4)

Name	Value	Unit
Amount of fuel	0.00108	kg/100k
	8	m
Transport distance	500	km
Capacity utilisation (including empty runs)	61	%



Installation (A5)

The following packaging materials are considered on construction site:

Name	Value	Unit
Wooden pallet for packaging	0.01	Kg/m²

Installation of the product is done manually. Hence, no additional energy or material is required. Waste generated from offcuts during installation, is used again as overlaps. The packaging wooden pallet goes into incineration after installation of the product. The impacts of incineration are considered in A5 module and subsequent credits of energy recovery from packaging wooden pallet are considered in module D.

End of life (C1-C4)

Name	Value	Unit
Collected as mixed construction waste	0.64	kg
Recycling (100% Scenario)	0.64	kg
Transport (To Waste processing Site)	100	km
Amount of fuel (For transport to Waste processing Site)	0.00124	kg/100km
Capacity utilisation of Trucks (including empty runs)	50	%

According to an investigation commissioned by S&P (*Report No.: 14-7974-01*), milled material with reinforcement residues of S&P Glasphalt® G can be easily recycled and reused in asphalt layers according to the *German Recycling Management Act*.

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

The potential benefits from packaging material in module A5 are declared. For waste incineration, combustion in a waste incineration plant (R1 > 0.6) with energy recuperation is considered. Recycling credits after the end-of-life of the product are considered.



LCA: Results

The following table depicts the results of the indicators with the associated magnitude of impact, use of resources as well as waste and other output flows in relation to 1 m2 of Glasphalt® G with the grammage of 0.64 kg/m2.

As End-of-life scenario (EoL) of 100% recycling is considered and subsequent credits are considered in stage D. Since, after the end of life of the product, it is sent to recycling, the impacts in stage C4 (Disposal) is "zero".

In Table 1 "Description of the system boundary", all declared modules shall be indicated with an "X"; all modules that are not declared shall be indicated with "MND" (As default the modules B3, B4, B5 are marked as MNR – module not relevant).

Note: The results declared for EP-freshwater are declared in the unit "P eq." according to the European Platform on Life Cycle Assessment (http://eplca.jrc.ec.europa.eu/LCDN/developerEF.xhtml). This web-link is provided in *EN 15804+A2*, clause 6.3.8.2.

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

	OUCT S		CONSTI ON PRO	RUCTI				SE STA	GE			El	ND OF LI	FE STA		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
Х	Х	Х	X	Х	ND	ND	MNR	MNR	MNR	ND	ND	X	X	Х	Х	Х
RESU	LTS (OF TH	IE LCA	- EN\	/IRON	MENT	'AL IM	PACT	acco	rding	to EN	15804-	⊦A2: 1	m² Sa	&P Glas	sphalt® G
	ndicator	L 1	Jnit	A1-	-A3	A4		A5		C1		2	C3		C4	D
	P-total		<u>:O₂-Eq.]</u>	6.86		1.96E	_	1.82E-2		1.78E-4		7E-3	1.71E-		0.00E+0	-1.50E-2
	p-fossil Diogenic		CO ₂ -Eq.] CO ₂ -Eq.]	6.95		1.95E- 0.00E-		2.70E-4 1.79E-2		1.70E-4 7.91E-6		1E-3)E+0	1.70E- 3.25E-		0.00E+0 0.00E+0	-1.49E-2 -5.97E-5
	P-luluc		20 <u>2-Eq.]</u> 20 ₂ -Eq.]	6.56		1.58E		1.75E-7		1.09E-9)E-5	6.28E-		0.00E+0	-2.90E-5
	DP		C11-Eq.]	6.28		2.34E-		2.21E-18		.82E-20		E-19	7.25E-1		0.00E+0	-2.80E-16
	P		H⁺-Eq.]	3.90		2.00E		2.60E-6		2.31E-6)E-6	1.60E-		0.00E+0	-2.52E-5
	shwater		PO ₄ -Eq.]	1.51		5.93E		3.29E-10		.68E-11		5E-8	4.08E-		0.00E+0	-4.06E-8
	narine		N-Eq.]	5.39		5.83E		8.47E-7		1.05E-6		DE-6	7.88E-		0.00E+0	-7.94E-6
	restrial CP		IN-Eq.] IVOC-Eq.]	5.84 1.83		7.02E		1.23E-5 2.30E-6		1.15E-5 3.14E-6		3E-5 3E-6	8.67E- 2.29E-		0.00E+0 0.00E+0	-8.75E-5 -2.06E-5
	PE	1.0	Sb-Eq.]	1.00		1.40E		2.30E-0 3.52E-11		.14E-0		E-10	2.29E-		0.00E+0	-2.00E-5 -3.79E-9
	DPF		MJ]	1.98		2.60E		3.90E-3		2.44E-3		2E-2	3.21E-		0.00E+0	-2.16E-1
	DP	[m³ v	vorld-Eq prived]	5.28		1.74E		1.88E-3		3.37E-7		7E-5	2.88E-		0.00E+0	-2.15E-3
Caption RESU S&P (Eutro	ophicatic	n potentia fossil re	al; POCF	P = Form ; ADPF :	ation pot = Abiotic	ential of t depletior	roposph n potenti	eric ozo al for fos	ne photo sil resou	chemical rces; WD	oxidants P = Wate	ADPE = r (user) d	Abiotic eprivati	depletion on potentia	and water; EP = potential for non- al +A2: 1 m ²
Indicat	tor L	Init	A1-A3		A4		A5		C1		C2		C3		C4	D
PERI	L	VJ]	1.60E+0		1.46E-2		1.51E-1		7.69E-6		3.33E-3		2.70E-3		.00E+0	-7.44E-2
PER		VJ]	1.50E-1		0.00E+0		-1.50E-1		0.00E+0		0.00E+0		.00E+0		.00E+0	0.00E+0
PER PENR		VJ]	1.75E+0 1.04E+1		1.46E-2 2.60E-1		7.27E-4		7.69E-6		3.33E-3		2.70E-3 .49E+0		.00E+0	-7.44E-2 -2.16E-1
PENR	L	VJ] VJ]	1.04E+1 9.46E+0		2.60E-1		3.91E-3 0.00E+0		2.44E-3 0.00E+0		5.92E-2 0.00E+0	-	.49E+0 9.46E+0		.00E+0 .00E+0	-2.16E-1 0.00E+0
PENR		VIJ] VIJ]	9.40E+0		2.60E-1		0.00E+0 3.91E-3		2.44E-3		5.92E-2		3.21E-2		.00E+0	-2.16E-1
SM		kg]	0.00E+0		0.00E+0		0.00E+0		0.00E+0		0.00E+0		.00E+0	_	.00E+0	0.00E+0
RSF		NJ]	0.00E+0		0.00E+0		0.00E+0		0.00E+0		0.00E+0		.00E+0	_	.00E+0	0.00E+0
NRS		NJ]	0.00E+0		0.00E+0		0.00E+0		0.00E+0		0.00E+0		.00E+0		.00E+0	0.00E+0
FW		n³]	2.07E-3		1.69E-5		4.41E-5		1.38E-8		3.85E-6		3.41E-6		.00E+0	-8.63E-5
Caption	renev no renev	vable pr on-rene vable p	imary ene wable prii rimary en	ergy res mary er ergy res	ources lergy ex sources	used as cluding r used as	raw mat non-rene raw mat	erials; P wable p terials; F	ERT = rimary PENRT	Total us energy r = Total u SF = Us	e of rene esources use of no	wable pr used as n-renewa	imary en raw mat able prim	ergy re erials; l ary ene	sources; I PENRM = ergy resou	RM = Use of PENRE = Use of Use of non- Irces; SM = Use Use of net fresh



Indicator	Unit	A1-A3	A4	A5	C1	C2	C3	C4	D
HWD	[kg]	1.36E-8	1.21E-8	2.72E-12	2.37E-13	2.76E-9	6.76E-10	0.00E+0	-9.11E-10
NHWD	[kg]	5.34E-2	3.98E-5	1.30E-4	2.50E-7	9.06E-6	9.67E-6	0.00E+0	-1.21E-4
RWD	[kg]	2.35E-4	3.22E-7	2.23E-7	2.62E-9	7.33E-8	2.58E-7	0.00E+0	-1.52E-5
CRU	[kg]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
MFR	[kg]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.40E-1	0.00E+0	0.00E+0
MER	[kg]	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EEE	[MJ]	0.00E+0	0.00E+0	2.62E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
			0.005.0	4.70E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
Caption	for re-use	e; MFR = Mater	ials for recycling) = Non-hazardo g; MER = Mater	ous waste dispo als for energy r thermal energ	sed; RWD = Ra ecovery; EEE =	dioactive waste Exported electr	disposed; CRL ical energy; EE	I = Compone
ESULT m ² S&I	WD = Haz for re-use S OF TH P Glasp	ardous waste d ; MFR = Mater HE LCA – a halt® G	isposed; NHWE ials for recycling dditional im) = Non-hazardo g; MER = Mater	ous waste dispo ials for energy r thermal energy pries accore	sed; RWD = Ra ecovery; EEE = ay ding to EN 1	dioactive waste Exported electr 5804+A2-o	disposed; CRL ical energy; EE otional:	I = Componer E = Exported
Caption H	WD = Haz for re-use S OF TH P Glasp Unit	ardous waste d ; MFR = Mater <mark>1E LCA – a</mark>	isposed; NHWE ials for recycling) = Non-hazardo g; MER = Mater	ous waste dispo als for energy r thermal energ	sed; RWD = Ra ecovery; EEE = Jy	dioactive waste Exported electr	disposed; CRL ical energy; EE	I = Componer
ESULT m ² S&I	WD = Haz for re-use S OF TH P Glasp Unit [Disease Incidence]	ardous waste d ; MFR = Mater HE LCA – at halt® G A1-A3 2.66E-8	isposed; NHWE ials for recycling dditional im) = Non-hazardo g; MER = Mater	ous waste dispo ials for energy r thermal energy pries accore	sed; RWD = Ra ecovery; EEE = ay ding to EN 1	dioactive waste Exported electr 5804+A2-o	disposed; CRL ical energy; EE otional:	E = Compone E = Exported
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ESULT m ² S& Indicator	WD = Haz for re-use S OF TH P Glasp Unit [Disease Incidence] [kBq U235	Ardous waste d e; MFR = Mater HE LCA – at halt® G A1-A3 2.66E-8	isposed; NHWL ials for recycling dditional im A4 1.19E-10	D = Non-hazard g; MER = Mater pact catego A5 1.31E-11	ous waste dispo ials for energy r thermal energy ories accord C1 1.23E-10	sed; RWD = Ra ecovery; EEE = ay ding to EN 1 C2 2.75E-11	dioactive waste Exported electr 5804+A2-op C3 3.69E-10	disposed; CRL ical energy; EE otional: C4 0.00E+0	D E = Compone E = Exported D -5.06E-10
ESULT m ² S&I Indicator PM IR	WD = Haz for re-use S OF TH P Glasp Unit [Disease Incidence] [kBq U235- Eq.]	HE LCA – ar halt® G A1-A3 2.66E-8 2.30E-2	isposed; NHWD ials for recycling dditional im A4 1.19E-10 4.65E-5	D = Non-hazard g; MER = Mater pact catego A5 1.31E-11 3.53E-5	C1 1.23E-10 3.74E-7	sed; RWD = Ra ecovery; EEE = gy ding to EN 1 C2 2.75E-11 1.06E-5	dioactive waste Exported electr 5804+A2-op C3 3.69E-10 2.33E-5	disposed; CRL ical energy; EE ptional: C4 0.00E+0 0.00E+0	D = Compone = Exported D -5.06E-10 -1.95E-3
ESULT m ² S&I Indicator PM IR ETP-fw	WD = Haz for re-use S OF TH P Glasp Unit [Disease Incidence] [kBq U235 Eq.] [CTUe]	ardous waste d ardous waste d b; MFR = Mater HE LCA - ar hait® G A1-A3 2.66E-8 2.30E-2 9.91E+0	isposed; NHWD ials for recycling dditional im A4 1.19E-10 4.65E-5 1.84E-1	D = Non-hazard g; MER = Mater pact catego A5 1.31E-11 3.53E-5 1.70E-3	C1 1.23E-10 3.74E-7 1.73E-3	sed; RWD = Ra ecovery; EEE = ay ding to EN 1 C2 2.75E-11 1.06E-5 4.18E-2	dioactive waste Exported electr 5804+A2-op C3 3.69E-10 2.33E-5 2.53E-2	disposed; CRL ical energy; EE otional: C4 0.00E+0 0.00E+0 0.00E+0	D = Compone E = Exported D -5.06E-10 -1.95E-3 -7.51E-2

Disclaimer 1 - for the indicator IRP

This impact category deals mainly with the eventual impact of low dose ionizingradiation on human health of the nuclear fuel cycle. It does not consider effects due to possiblenuclear accidents, occupational exposure nor due to radioactive waste disposal in undergroundfacilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator.

Disclaimer 2 – for the indicators ADPE, ADPF, WDP, ETP-fw, HTP-c, HTP-nc, SQP The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

References

Standards

EN 15381

EN 15381:2008, Geotextiles and geotextile-related products – Characteristics required for use in pavements and asphalt overlays

ISO 14025

DIN EN ISO 14025:2011-10, Environmental labels and declarations — Type III environmental declarations — Principles and procedures.

ISO 15686

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