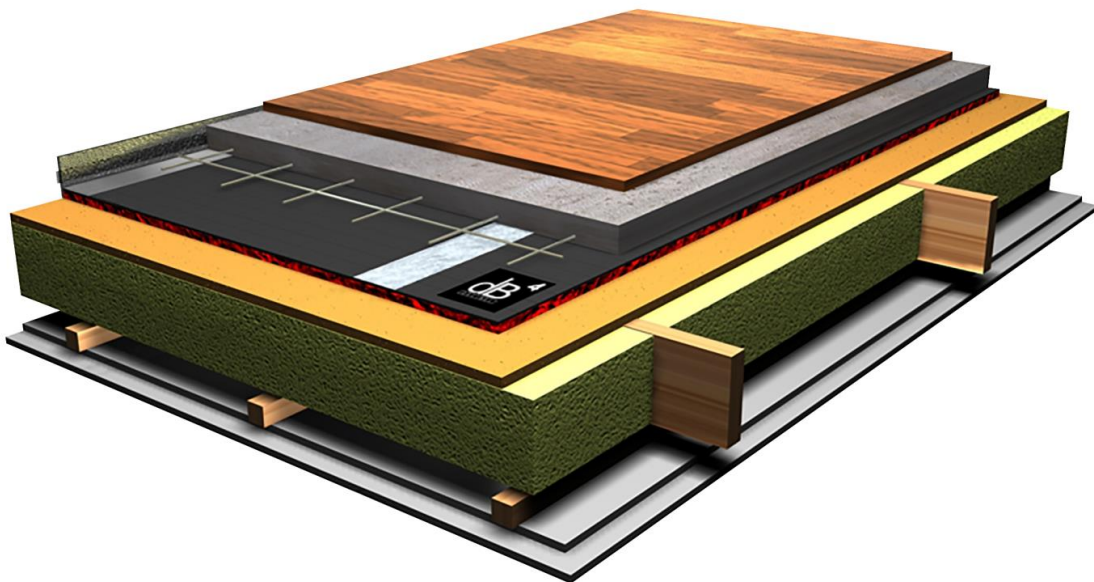


ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH ISO 14025 AND EN 15804



DECIBEL SOUNDSEAL ACOUSTIC INSULATION



Declaration number: S-P-02164

Issued on 2020-08-21
Valid until 2025-08-11

The environmental impacts of this product have been assessed from cradle to gate with options.

This Environmental Product Declaration has been verified by an independent third party.

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



The International EPD® System
www.environdec.com
EPD International AB



Introduction

This EPD provides environmental performance indicators for Decibel Soundseal Acoustic Insulation manufactured by Interfloor Limited. This is a cradle-to-gate with options EPD in accordance with the requirements of EN 15804, covering modules A1 - A3, A4, A5, C and D defined in that standard.

The EPD is based on a life cycle assessment (LCA) study which used production data for 2018 - 2019 from Interfloor's manufacturing facilities in Haslingden, Lancashire, UK. Background data were taken from the ecoinvent database (v3.6). The EPD presents details of the LCA, a description of the product life cycle it covers, values for the environmental indicators specified by EN 15804 and a brief explanation of those results.

The declared unit is 1 square metre (1m²) of Decibel Soundseal Acoustic Insulation.

Decibel Soundseal Acoustic Insulation EPD

EPD programme	The International EPD® System
EPD programme operator	EPD International AB, Box 210 60, SE-100 30 Stockholm, Sweden www.environdec.com
EPD owner	Interfloor Limited Broadway, Haslingden, Rossendale, Lancashire BB4 4LS, UK https://www.interfloor.com/
Product names	Decibel 1, Decibel 2, Decibel 3, Decibel 4, Decibel Compact 2, Decibel Wood
CPC code	CPC 3691
Declared unit	1 square metre (1m ²)
System boundaries	Cradle-to-gate with options
Declaration No	S-P-02164
Date of publication	2020-08-21
EPD valid until	2025-08-11
Procedure for data follow-up during EPD validity	involves third party Verifier: yes <input type="checkbox"/> no <input checked="" type="checkbox"/>
EPD geographical scope	Europe
EPD based on Product Category Rules	The CEN standard EN 15804 serves as the core PCR The International EPD® System's PCR 2019:14 Construction products, version 1.0, 2019-12-20 & c-PCR 004: resilient, textile and laminate floor coverings (EN 16810)
PCR review conducted by	The Technical Committee of the International EPD® System Chair: Claudia Peña; contact via info@environdec.com
Verification	Independent verification of this EPD and data, according to ISO 14025/2006: <input type="checkbox"/> internal certification <input checked="" type="checkbox"/> external verification
Third party verifier	Ugo Pretato, Recognized Individual Verifier  Studio Fieschi & Soci S.r.l., Italy
Accredited or approved by:	The International EPD® System
LCA conducted by:	EuGeos Limited, UK - +44 (0)1625 434423 www.eugeos.co.uk 

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.

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Company profile

Interfloor, part of the Victoria plc group of companies, was created by the merger of Tredaire and Duralay in 2002 but our heritage dates back to the 1940s when Duralay began manufacturing the first carpet underlays in the UK.

We are Europe's largest manufacturer of carpet underlay and flooring accessories and we supply our products to flooring retailers, distributors and flooring contractors in the UK and around the world.

We manufacture a diverse range of products including the three most popular forms of underlay – polyurethane foam, sponge rubber and crumb rubber. We also produce carpet gripper, floor edgings, flooring adhesives, tapes and tools.

The facilities that manufacture the products covered by this EPD operate a management system that is registered as meeting the requirements of ISO 14001:2015.



Our products hold the Carpet and Rug Institute (CRI) Green Label Plus accreditation, meaning our products conform to the CRI's high standards for indoor air quality and low VOC emissions.

In 2008 we invested £3.5m in regenerative thermal oxidisers (RTOs) to eliminate odour, oil particles and VOCs. Although our emissions were already below the legal requirements we have further reduced emissions by over 90% as a result of this

In 2012 we launched our Ethical Trading Policy. We are committed to implementing the principles of the Ethical Trading Initiative (ETI) Base Code.

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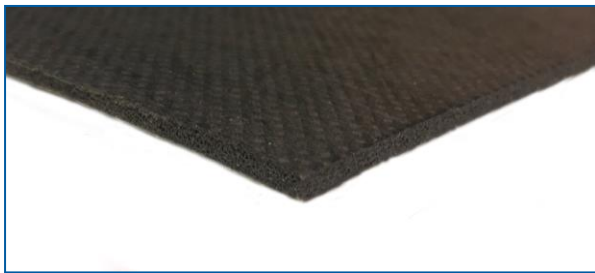
Product information

This EPD applies to Interfloor's Decibel Soundseal Acoustic Insulation products Decibel 1, Decibel 2, Decibel 3, Decibel 4, Decibel Compact 2 and Decibel Wood.

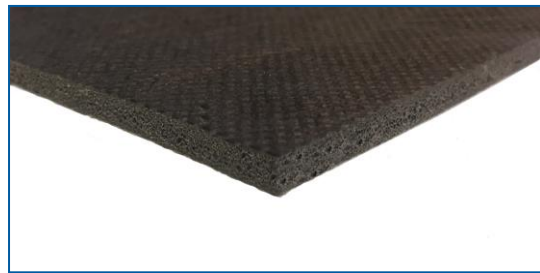
Interfloor's Decibel Soundseal Acoustic Insulation products are classified CPC 3691 under the UN CPC classification system v2.1.

DECIBEL 1, 2, 3 & 4

Decibel 1, 2, 3 & 4 are designed to be used as an integrated part of a Soundseal floor construction to create a high-performance insulator that reduces impact and airborne sound levels.



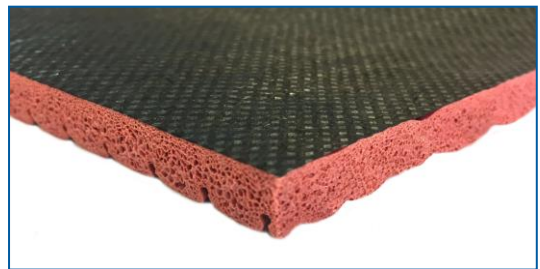
DECIBEL 1



DECIBEL 2



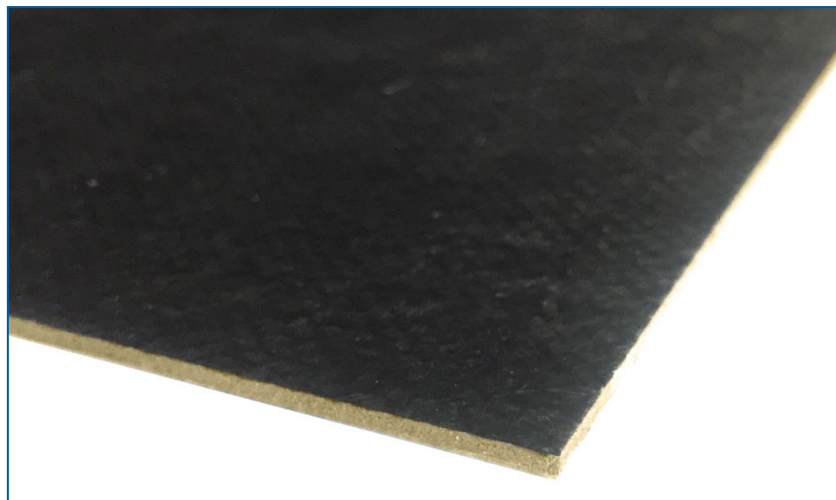
DECIBEL 3



DECIBEL 4

DECIBEL COMPACT 2

Designed for use in conjunction with ceramic tiles installations to reduce impact and airborne sound.



DECIBEL COMPACT 2

DECIBEL WOOD

Designed for use in conjunction with underfloor heating systems, and suitable for the floating installation of laminate and solid timber floors.



DECIBEL WOOD

MANUFACTURING & USE

The manufacture of Decibel Soundseal products involves the following steps:

- batching and mixing of facing compound
- application of this facing compound to the backing material
- calendering to ensure uniform thickness of the facing layer that provides the insulation
- curing in gas-fired ovens
- trimming and packing

Emissions to air from the curing ovens are abated in a gas-fired thermal oxidiser. Final emissions are monitored to ensure compliance with the site's environmental permit.

Trim is reused in the process to reduce waste.

PACKAGING & TRANSPORTATION

Decibel Soundseal Acoustic Insulation products are supplied to customers as rolls formed on cardboard cores and protected by polythene bags. They are transported by road or road and sea.

INSTALLATION

Decibel Soundseal Acoustic Insulation products are laid manually onto a concrete base; edges are completed with adhesive tape. No additional materials or special tools are required for installation; the cardboard core and polythene film which comprise the product packaging should be recycled wherever facilities exist.

PRODUCT USE AND MAINTENANCE

Decibel Soundseal Acoustic Insulation products are used as sound insulation, laid under concrete sub-floors in multi-storey buildings. The products are passive in use and require no maintenance or repair during the 50-year lifetime of building assumed in EN 15804 and EN 15978.

END-OF-LIFE

At the end of the building's life, it is anticipated that the product will be removed from the building, separated from concrete wastes which will likely be recovered for use as aggregate, with both the adhesive tape and the product itself incinerated as waste with energy content being recovered.

As wastes Interfloor's Decibel Soundseal Acoustic Insulation products fall under European Waste Catalogue (EWC) code 4008 1100.

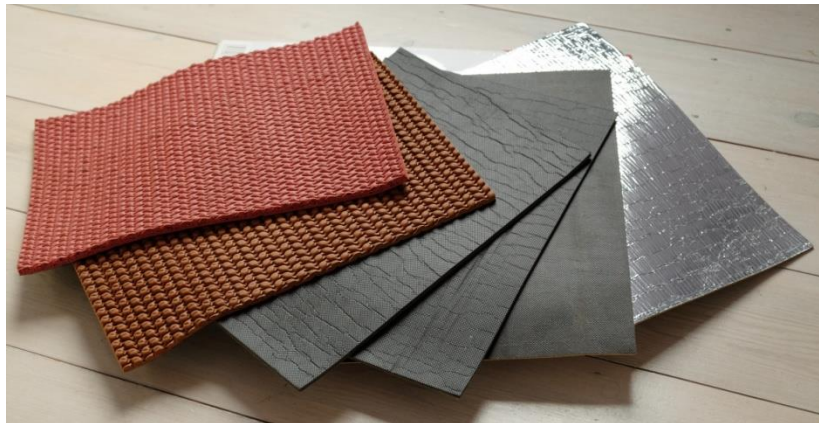
REFERENCE SERVICE LIFE

No reference service life is specified in this EPD.

FURTHER PRODUCT INFORMATION

Detailed product information and datasheets can be found

- on our website: <https://www.interfloor.com/>
- or by contacting: +441706 238825
- or by email international@interfloor.com



CONTENTS DECLARATION

The material composition of Interfloor's Decibel Soundseal Acoustic Insulation products, including the product packaging, is shown below:

Material	% of mass per declared functional unit					
	Decibel 1	Decibel 2	Decibel 3	Decibel 4	Decibel Compact 2	Decibel Wood
Synthetic rubber	9-11	10-12	10-12	14-16	9-10	9-11
Plasticiser	14-16	18-20	12-14	16-21	13-15	14-16
Calcium carbonate and other minerals	67 – 71	61 - 65	68 – 72	59 - 62	71 - 74	70 - 72
Polyester textiles	2 - 4	2 - 4	1 - 3	1 - 3	2 - 3	2 - 3
Other polymers	<1	<1	<1	<1	<1	<1
Cardboard (packaging)	2	1.5	1.5	1.5	3	<1
Organic pigments	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

No substance included in the Candidate List of Substances of Very High Concern for authorisation under the REACH Regulations is present in the protection materials, either above the threshold for registration with the European Chemicals Agency or above 0.1% (wt/wt).

TECHNICAL DATA

Interfloor's Decibel Soundseal Acoustic Insulation products are intended for use as under-floor sound insulation and comply with BS 5808: 1991 and BS EN14499: 2015. Key technical properties are shown in the table below; consult the relevant product Technical Data Sheet for a comprehensive specification.

Name (test)	Values						Unit
	Decibel 1	Decibel 2	Decibel 3	Decibel 4	Decibel Compact 2	Decibel Wood	
Mean original thickness from nominal thickness (Max.12%) – ISO 1765	10.7	4	6.2	3.8	2.0	2.6	%
Difference between max. & min. original thicknesses (Max.3mm) – ISO 1765	0.44	0.3	1.2	0.6	0.2	0.4	mm
Work of compression (Min. 50 J/m ² Max. 200 J/m ²) - BS 4098 & ISO 2094	92.6	97	131	180	n/a	88	J/m ²
Retention of work of compression (min 40%) - BS 4098 & ISO 2094	80.4	82	75	67	n/a	82	%
Compression after dynamic loading – BS 4098 & ISO 2094	2	2.8	6	6.8	n/a	0.6	mm
Loss in thickness after dynamic loading (max 15%) - ISO 2094 & BS 4052	2.6	4.9	4.2	6.8	2.3	3.3	%
Loss in thickness after static loading (max 15%) - ISO 3415/3416 & BS 4939	3.6	14,12	13.61	7.16	2.6	3.2	%
Breaking strength (length/width) min. 30N - EN ISO 13394 BS 2576	237 / 156	282 / 162	175/144	165/88	242/106	89/67	N
Extension under force (length/width) max. 15% @ 30N	1.5 / 0.6	0.8 / 0.5	4.3/2.2	6.1/2.2	0.5/0.6	0.8/1.2	%
Resistance to cracking (not greater than 50mm) - EN 14499 & BS 5808	Pass	Pass	Pass	Pass	Pass	pass	-
Thermal resistance – BS 4745	0.38	0.6	1.2	1.65	n/a	0.38	togs
Impact sound reduction (Delta Lw) *	23	25	29	36	12	19	dB
Flammability: hot metal nut test (Interfloor laboratory) - BS 4790 & BS 5287	low	low	low	low	low	low	radius of effects of ignition

* Minimum 35mm of Screed: With an approximately 1 dB improvement for every 5-10mm of additional screed

RESIDUAL RISKS AND EMERGENCIES

There are no residual risks associated with the normal day-to-day use of Interfloor's Decibel Soundseal Acoustic Insulation products. Care must be taken to select and install the materials in accordance with Interfloor's guidance.

Environmental performance-related information

LCA INFORMATION

This section of the EPD records key features of the LCA on which it is based.

SCOPE

This EPD covers the production stage (modules A1-A3), on-site installation (A4 & A5) and end-of-life management (C & D) - see below; as permitted by EN 15804, modules A1-A3 are declared in aggregated form.

Product stage			Construction process stage		Use stage							End of life stage				Benefits & loads beyond the system boundaries
Raw material supply	Transport	Manufacturing	Transport to the site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste treatment	Disposal	Reuse- recovery- recycling-potential
A 1	A 2	A 3	A 4	A 5	B1	B2	B3	B4	B5	B6	B7	C 1	C 2	C 3	C 4	D
X	X	X	X	X	ND	ND	ND	ND	ND	ND	ND	X	X	X	X	X

X: included in LCA; ND: module not declared; NR: module not relevant

DECLARED UNIT

The declared unit is 1 square metre of Decibel Soundseal Acoustic Insulation. The mass of the declared unit for each product is shown below.

	Thickness (mm)	Mass per m ² (kg.m ⁻²)	Effective bulk density (kg.m ⁻³)	Biogenic carbon in packaging (kgC.m ²)
Decibel 1	3.00	2.305	768	0.02
Decibel 2	5.30	3.017	569	0.02
Decibel 3	10.00	4.233	423	0.02
Decibel 4	11.40	4.068	357	0.02
Decibel Compact 2	2.00	2.848	1424	0.04
Decibel Wood	3.00	2.136	712	0.02

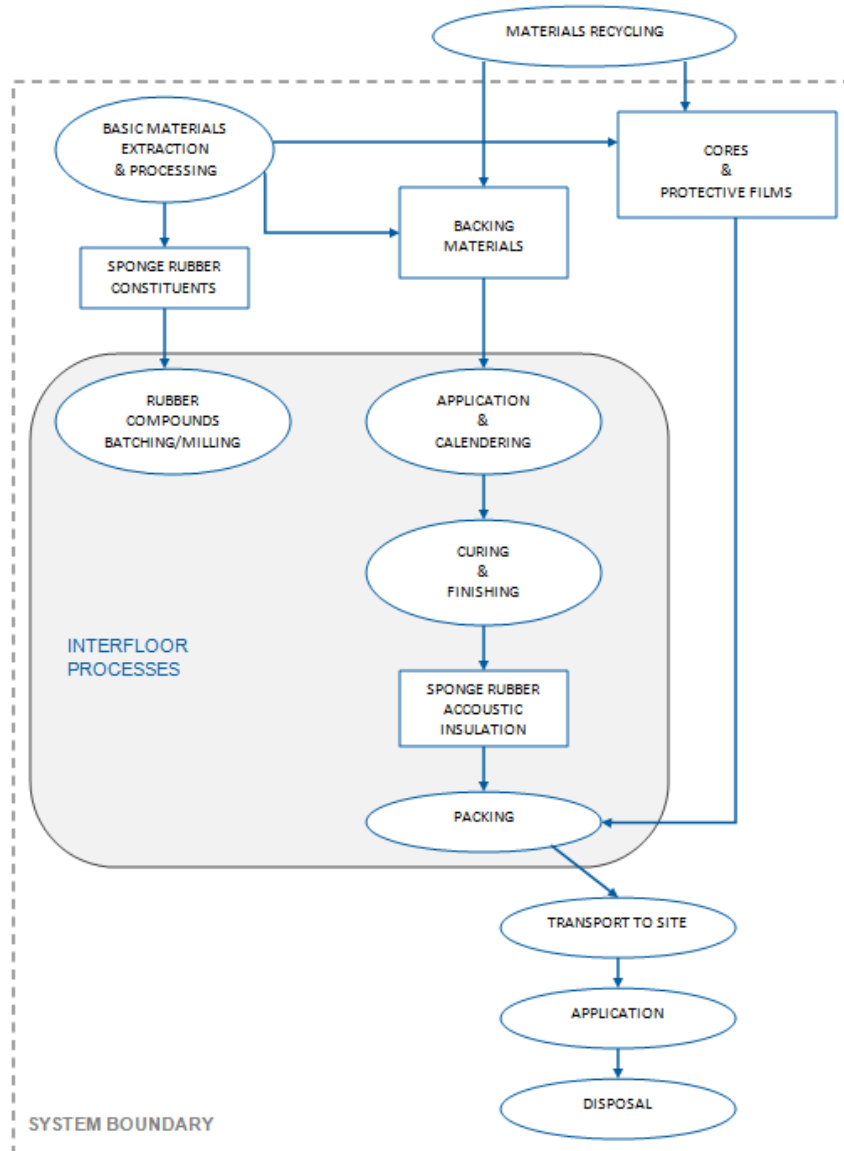
SYSTEM BOUNDARIES

The system boundary of the EPD is defined using the modular approach set out in EN 15804.

As well as the core processes which cover manufacture of the underlay at Interfloor's Haslingden site, the system includes production of all raw materials and components from basic resources; transport of those materials at all stages up to users' sites, subsequent installation and end-of-life management; the production of fuels and energy carriers and their delivery to manufacturing sites; the treatment of all wastes.

The upstream processing of recycled material inputs that have passed the end-of-waste state is outside the system boundary.

The product life cycle covered by this EPD is illustrated below.



DECIBEL SOUNDSEAL ACOUSTIC INSULATION LIFE- CYCLE

CUT-OFF CRITERIA

The collected data covered all raw materials, consumables and packaging materials; associated transport to the manufacturing site; process energy and water use; direct production wastes; emissions to air and water.

According to EN 15804 and the PCR, flows can be omitted (cut off) from a core process in the LCA up to a maximum of 1% of the total mass of material inputs or 1% of the total energy content of fuels and energy carriers; some ancillary materials used in small quantities within the process and amounting, in combination, to <0.1% of total input materials were omitted from the LCA underpinning this EPD.

DATA SOURCES AND DATA QUALITY

Data characterising Interfloor’s core processes (see above figure) were collected for a contiguous 12-month period between 01/04/2018 and 30/03/2019. The data have therefore been updated within the last 5 years. These data were checked to ensure that sufficient materials and water are included within the inputs to account for all products, wastes and emissions.

BACKGROUND DATA

Background (generic) data were taken from the ecoinvent database (v3.6); this fulfils the EN 15804 requirement that generic data used in the LCA have been updated within the last 10 years. The quality of generic data has been reviewed to ensure representativeness.

Product-specific data accounts for >90% of the GWP total values reported for the product stage (A1-A3).

ALLOCATION

In the background data, the ecoinvent default allocation is applied to all processes except those in which secondary materials are used, where the "cut-off" allocation is applied. This ensures that secondary materials are free of upstream burdens that arise prior to their reaching the "end of waste" state, in accordance with Section 6.3.4.2 of EN 15804.

ASSUMPTIONS AND ESTIMATES

Inputs to and outputs from the system are accounted for over a 100-year time period; long-term emissions are therefore omitted from the impact assessment part of the LCA.

The "primary energy used as material" indicators (PERM; PENRM) are calculated using - as characterisation factors - published values for constituent materials which can yield energy on combustion, where available, and from published calorific values where PE(N)RM values are not available. Calculations of PERM in this study are based on a lower NCV for sponge rubber underlay of 24MJ/kg, 16MJ/kg for cardboard, 48MJ/kg for polyethylene and 30MJ/kg for polyvinyl chloride and other polymers. "Primary energy as fuel" indicators (PENRE, PERE) are calculated as the total primary energy demand minus primary energy used as material. Module D calculations exclude any third-party recycling of packaging or process wastes arising in Module D

Delivery of the product to users' sites, transport to waste processing and final disposal are modelled using scenarios which are relevant to Sweden, a significant outlet for Decibel products. The relevant parameters for the transport scenarios are shown in the tables below.

Scenario Parameters – A4 transport to site	
Parameter	Quantity & unit
Vehicle type	lorry; container ship
Vehicle load capacity	16t; n/a
Fuel type and consumption	diesel, 0.1 l/km; HFO 2.5g/tkm,
Volume capacity utilisation factor	1
Capacity utilisation (including empty returns)	38%; 100%
Distance to site	567 km; 602km
Bulk density of transported products	see declared unit data (kg/m ³)

Scenario Parameters – C2 transport to waste treatment	
Parameter	Quantity & unit
Vehicle type	lorry
Vehicle load capacity	10t; n/a
Fuel type and consumption	diesel, 0.1 l/km
Volume capacity utilisation factor	1
Capacity utilisation (including empty returns)	33%
Distance to site	50 km
Bulk density of transported products	see declared unit data (kg/m ³)

Final disposal (module C4) is modelled as 100% incineration with energy recovery.

INTERPRETATION OF THE LCA

Indicator values obtained for resource depletion (ADPE, ADPF), stratospheric ozone depletion (ODP) and water deprivation (WDP) potential should be used with caution; all are subject to uncertainties in data or method which limit the scope for their use as the basis for comparisons.

No untreated wastes leave the modelled system, which includes waste treatment activities as required by EN15804. The waste indicators HWD, NHWD and TRWD presented in this EPD therefore represent waste flows *within* the modelled system.

The manufacture of the product and its ingredients represents the most significant part of the life cycle. For GWP (carbon footprint) the product's end-of-life is also significant if the product is incinerated, at which point fossil hydrocarbons in the product itself are released as CO₂, with some energy recovered in the process, which is reported as Exported Energy (EE) in Module C4. The use of this energy (as heat and power) may avoid other environmental burdens associated with heat and power production from primary fuels in other product systems, but assessment of such benefits from waste incineration is outside the scope of EPD compliant with EN15804.

ENVIRONMENTAL INDICATORS

This EPD contains environmental information about Interfloor's Decibel Soundseal Acoustic Insulation in the form of quantitative indicator values for a number of parameters, which encompass calculated environmental impact potentials, resource and energy use, waste generation and material and energy outputs from the product system that may be reused, recycled or recovered into other, unspecified product life cycles. The parameters are listed below along with the abbreviations used for them in the tables of indicator values that follow.

Parameter	Abbreviation	Units
Environmental impacts		
Climate change – GWP fossil	GWP-fossil	kg CO ₂ eq
Climate change – GWP biogenic	GWP-biogenic	kg CO ₂ eq
Climate change – GWP land transformation	GWP-luluc	kg CO ₂ eq
Climate change – GWP total	GWP-total	kg CO ₂ eq
Climate change - GWP fossil & land transformation ¹	GWP-GHG	kg CO ₂ eq
Acidification potential	AP	mol H ⁺ eq
Eutrophication – freshwater	EP-freshwater	kg PO ₄ ³⁻ eq
Eutrophication – marine	EP-marine	kg N eq
Eutrophication – terrestrial	EP-terrestrial	mol N eq
Photochemical ozone formation	POCP	kg NMVOC eq
Ozone depletion	ODP	kg CFC-11 eq
Depletion of abiotic resources – minerals & metals ²	ADPMM	kg Sb eq
Depletion of abiotic resources – fossil fuels ²	ADPFF	MJ, ncv
Water (user) deprivation potential ²	WDP	m ³ world-eq deprived
Resource use		
Renewable primary energy as energy carrier	PERE	MJ
Renewable primary energy resources as material utilisation	PERM	MJ
Total renewable primary energy use (sum of the two parameters above)	PERT	MJ
Non-renewable primary energy as energy carrier	PENRE	MJ
Non-renewable primary energy resources as material utilisation	PENRM	MJ
Total non-renewable primary energy use (sum of the two parameters above)	PENRT	MJ
Use of secondary material	SM	kg
Use of renewable secondary fuels	RSF	MJ
Use of non-renewable secondary fuels	NRSF	MJ
Net use of fresh water	FW	m ³
Wastes		
Hazardous waste disposed	HWD	kg
Non-hazardous waste disposed	NHWD	kg
Radioactive waste disposed	TRWD	kg
Output flows		
Components for re-use	CFR	kg
Materials for recycling	MFR	kg
Materials for energy recovery	MER	kg
Exported energy	EE	MJ

¹ - GWP-GHG 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 EN15804:2012+A1:2013

² - The results of this environmental impact indicator shall be used with care because either the uncertainties associated with the results are high or there is limited experience with the indicator

SOUNDSEAL ACOUSTIC INSULATION - DECIBEL 1

Environmental indicator results for all declared modules are shown in the following tables for the declared unit of 1m² of Decibel 1 Soundseal Acoustic Insulation; the A1 - A3 modules are shown on an aggregated basis.

DECIBEL 1	ENVIRONMENTAL IMPACTS	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	GWP-fossil	kg CO ₂ eq	2.30E+00	2.31E-01	1.14E-01	2.62E-02	5.91E-02	0.00E+00	1.67E+00	0.00E+00
	GWP-biogenic	kg CO ₂ eq	1.36E-01	0.00E+00	7.37E-02	1.22E-06	0.00E+00	0.00E+00	3.72E-03	0.00E+00
	GWP-luluc	kg CO ₂ eq	1.69E-03	8.77E-05	2.02E-05	1.56E-07	3.31E-05	0.00E+00	2.10E-05	0.00E+00
	GWP-total	kg CO ₂ eq	2.36E+00	2.31E-01	1.14E-01	2.62E-02	5.91E-02	0.00E+00	1.67E+00	0.00E+00
	GWP-GHG	kg CO ₂ eq	2.30E+00	2.31E-01	1.14E-01	2.62E-02	5.91E-02	0.00E+00	1.67E+00	0.00E+00
	AP	mol H ⁺ eq	1.72E-02	9.40E-04	1.60E-04	5.91E-06	1.50E-04	0.00E+00	5.00E-04	0.00E+00
	EP-freshwater	kg PO ₄ ³⁻ eq	4.00E-04	1.69E-05	7.81E-06	7.50E-08	6.25E-06	0.00E+00	9.61E-06	0.00E+00
	EP-marine	kg N eq	1.88E-03	1.76E-04	3.89E-05	3.35E-06	2.04E-05	0.00E+00	2.50E-04	0.00E+00
	EP-terrestrial	mol N eq	1.64E-02	1.93E-03	3.80E-04	2.84E-05	2.10E-04	0.00E+00	2.16E-03	0.00E+00
	POCP	kg NMVOC eq	8.54E-03	6.82E-04	1.20E-04	6.83E-06	9.93E-05	0.00E+00	5.60E-04	0.00E+00
	ODP	kg CFC-11 eq	5.38E-07	5.22E-08	1.47E-09	6.22E-11	1.26E-08	0.00E+00	1.10E-08	0.00E+00
	ADPMM	kg Sb eq	1.60E-04	6.10E-06	3.86E-07	9.22E-09	2.91E-06	0.00E+00	1.12E-06	0.00E+00
	ADPFF	MJ, ncv	6.21E+01	3.42E+00	8.48E-01	5.29E-03	8.66E-01	0.00E+00	9.06E-01	0.00E+00
WDP	m ³ world-eq deprvd	4.32E+01	3.22E+00	5.10E-01	4.20E-03	1.36E+00	0.00E+00	4.55E-01	0.00E+00	

DECIBEL 1	RESOURCE USE	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	PERE	MJ	4.22E-01	4.83E-02	2.87E-02	1.80E-04	1.88E-02	0.00E+00	2.03E-02	0.00E+00
	PERM	MJ	7.54E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	PERT	MJ	1.18E+00	4.83E-02	2.87E-02	1.80E-04	1.88E-02	0.00E+00	2.03E-02	0.00E+00
	PENRE	MJ	1.13E+01	3.49E+00	5.58E-01	5.44E-03	8.93E-01	0.00E+00	9.26E-01	0.00E+00
	PENRM	MJ	5.58E+01	0.00E+00	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	PENRT	MJ	6.70E+01	3.49E+00	8.88E-01	5.44E-03	8.93E-01	0.00E+00	9.26E-01	0.00E+00
	SM	kg	5.77E-02	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	RSF	MJ	3.73E-02	1.72E-03	5.10E-04	3.03E-06	6.80E-04	0.00E+00	4.00E-04	0.00E+00
	NRSF	MJ	2.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	1.46E-02	2.35E-04	5.70E-04	3.81E-05	9.28E-05	0.00E+00	2.16E-03	0.00E+00	

DECIBEL 1	WASTES	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	HWD	kg	7.23E-02	3.60E-03	3.22E-03	4.00E-04	1.25E-03	0.00E+00	2.65E-02	0.00E+00
	NHWD	kg	2.02E+00	2.36E-01	1.18E-01	1.16E-02	5.47E-02	0.00E+00	4.23E+00	0.00E+00
	TRWD	kg	2.60E-04	2.38E-05	6.97E-07	1.25E-08	5.86E-06	0.00E+00	3.99E-06	0.00E+00

DECIBEL 1	OUTPUT FLOWS	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	CFR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MFR	kg	6.14E-03	0.00E+00	8.92E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	EE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E+01	0.00E+00

SOUNDSEAL ACOUSTIC INSULATION - DECIBEL 2

Environmental indicator results for all declared modules are shown in the following tables for the declared unit of 1m² of Decibel 2 Soundseal Acoustic Insulation; the A1 - A3 modules are shown on an aggregated basis.

DECIBEL 2	ENVIRONMENTAL IMPACTS	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	GWP-fossil	kg CO ₂ eq	3.27E+00	3.02E-01	1.39E-01	2.62E-02	7.70E-02	0.00E+00	2.18E+00	0.00E+00
	GWP-biogenic	kg CO ₂ eq	1.78E-01	0.00E+00	7.37E-02	1.22E-06	0.00E+00	0.00E+00	4.85E-03	0.00E+00
	GWP-luluc	kg CO ₂ eq	2.02E-03	1.15E-04	2.03E-05	1.56E-07	4.31E-05	0.00E+00	2.74E-05	0.00E+00
	GWP-total	kg CO ₂ eq	3.34E+00	3.02E-01	1.40E-01	2.62E-02	7.71E-02	0.00E+00	2.18E+00	0.00E+00
	GWP-GHG	kg CO ₂ eq	3.27E+00	3.02E-01	1.39E-01	2.62E-02	7.71E-02	0.00E+00	2.18E+00	0.00E+00
	AP	mol H ⁺ eq	2.50E-02	1.23E-03	1.60E-04	5.91E-06	1.96E-04	0.00E+00	6.52E-04	0.00E+00
	EP-freshwater	kg PO ₄ ³⁻ eq	6.00E-04	2.20E-05	7.87E-06	7.50E-08	8.15E-06	0.00E+00	1.25E-05	0.00E+00
	EP-marine	kg N eq	2.75E-03	2.29E-04	4.16E-05	3.35E-06	2.66E-05	0.00E+00	3.26E-04	0.00E+00
	EP-terrestrial	mol N eq	2.40E-02	2.52E-03	4.00E-04	2.84E-05	2.74E-04	0.00E+00	2.82E-03	0.00E+00
	POCP	kg NMVOC eq	1.27E-02	8.90E-04	1.30E-04	6.83E-06	1.30E-04	0.00E+00	7.30E-04	0.00E+00
	ODP	kg CFC-11 eq	9.91E-07	6.82E-08	1.52E-09	6.22E-11	1.65E-08	0.00E+00	1.44E-08	0.00E+00
	ADPMM	kg Sb eq	2.60E-04	7.97E-06	3.93E-07	9.22E-09	3.79E-06	0.00E+00	1.46E-06	0.00E+00
	ADPFF	MJ, ncv	9.20E+01	4.47E+00	8.53E-01	5.29E-03	1.13E+00	0.00E+00	1.18E+00	0.00E+00
WDP	m ³ world-eq deprvd	6.29E+01	4.20E+00	5.13E-01	4.20E-03	1.77E+00	0.00E+00	5.93E-01	0.00E+00	

DECIBEL 2	RESOURCE USE	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	PERE	MJ	8.37E-01	6.30E-02	2.89E-02	1.80E-04	2.45E-02	0.00E+00	2.65E-02	0.00E+00
	PERM	MJ	7.54E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	PERT	MJ	1.59E+00	6.30E-02	2.89E-02	1.80E-04	2.45E-02	0.00E+00	2.65E-02	0.00E+00
	PENRE	MJ	2.56E+01	4.56E+00	5.62E-01	5.44E-03	1.16E+00	0.00E+00	1.21E+00	0.00E+00
	PENRM	MJ	7.29E+01	0.00E+00	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	PENRT	MJ	9.85E+01	4.56E+00	8.92E-01	5.44E-03	1.16E+00	0.00E+00	1.21E+00	0.00E+00
	SM	kg	5.77E-02	0.00E+00	1.80E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	RSF	MJ	5.51E-02	2.24E-03	5.10E-04	3.03E-06	8.87E-04	0.00E+00	5.22E-04	0.00E+00
	NRSF	MJ	2.56E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	1.93E-02	3.07E-04	6.00E-04	3.81E-05	1.21E-04	0.00E+00	2.82E-03	0.00E+00	

DECIBEL 2	WASTES	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	HWD	kg	1.06E-01	4.70E-03	3.53E-03	4.00E-04	1.63E-03	0.00E+00	3.46E-02	0.00E+00
	NHWD	kg	2.96E+00	3.08E-01	1.28E-01	1.16E-02	7.14E-02	0.00E+00	5.52E+00	0.00E+00
	TRWD	kg	3.70E-04	3.11E-05	7.06E-07	1.25E-08	7.65E-06	0.00E+00	5.21E-06	0.00E+00

DECIBEL 2	OUTPUT FLOWS	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	CFR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MFR	kg	8.52E-03	0.00E+00	9.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	EE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E+01	0.00E+00

SOUNDSEAL ACOUSTIC INSULATION - DECIBEL 3

Environmental indicator results for all declared modules are shown in the following tables for the declared unit of 1m² of Decibel 3 Soundseal Acoustic Insulation; the A1 - A3 modules are shown on an aggregated basis.

DECIBEL 3	ENVIRONMENTAL IMPACTS	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	GWP-fossil	kg CO ₂ eq	3.99E+00	4.24E-01	1.94E-01	2.62E-02	1.08E-01	0.00E+00	3.05E+00	0.00E+00
	GWP-biogenic	kg CO ₂ eq	2.52E-01	0.00E+00	1.02E-01	1.22E-06	0.00E+00	0.00E+00	6.79E-03	0.00E+00
	GWP-luluc	kg CO ₂ eq	2.51E-03	1.61E-04	2.07E-05	1.56E-07	6.04E-05	0.00E+00	3.83E-05	0.00E+00
	GWP-total	kg CO ₂ eq	4.08E+00	4.24E-01	1.94E-01	2.62E-02	1.08E-01	0.00E+00	3.05E+00	0.00E+00
	GWP-GHG	kg CO ₂ eq	3.99E+00	4.24E-01	1.94E-01	2.62E-02	1.08E-01	0.00E+00	3.05E+00	0.00E+00
	AP	mol H ⁺ eq	3.14E-02	1.72E-03	1.70E-04	5.91E-06	2.74E-04	0.00E+00	9.13E-04	0.00E+00
	EP-freshwater	kg PO ₄ ³⁻ eq	7.20E-04	3.09E-05	8.05E-06	7.50E-08	1.14E-05	0.00E+00	1.75E-05	0.00E+00
	EP-marine	kg N eq	3.42E-03	3.22E-04	4.94E-05	3.35E-06	3.73E-05	0.00E+00	4.57E-04	0.00E+00
	EP-terrestrial	mol N eq	2.87E-02	3.53E-03	4.70E-04	2.84E-05	3.83E-04	0.00E+00	3.94E-03	0.00E+00
	POCP	kg NMVOC eq	1.46E-02	1.25E-03	1.50E-04	6.83E-06	1.81E-04	0.00E+00	1.02E-03	0.00E+00
	ODP	kg CFC-11 eq	1.16E-06	9.57E-08	1.66E-09	6.22E-11	2.31E-08	0.00E+00	2.01E-08	0.00E+00
	ADPMM	kg Sb eq	3.20E-04	1.12E-05	4.15E-07	9.22E-09	5.30E-06	0.00E+00	2.05E-06	0.00E+00
	ADPFF	MJ, ncv	1.09E+02	6.27E+00	8.65E-01	5.29E-03	1.58E+00	0.00E+00	1.65E+00	0.00E+00
WDP	m ³ world-eq deprvd	6.96E+01	5.90E+00	5.22E-01	4.20E-03	2.48E+00	0.00E+00	8.30E-01	0.00E+00	

DECIBEL 3	RESOURCE USE	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	PERE	MJ	7.75E-01	8.85E-02	2.93E-02	1.80E-04	3.43E-02	0.00E+00	3.71E-02	0.00E+00
	PERM	MJ	1.04E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	PERT	MJ	1.81E+00	8.85E-02	2.93E-02	1.80E-04	3.43E-02	0.00E+00	3.71E-02	0.00E+00
	PENRE	MJ	1.48E+01	6.40E+00	5.75E-01	5.44E-03	1.63E+00	0.00E+00	1.69E+00	0.00E+00
	PENRM	MJ	1.02E+02	0.00E+00	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	PENRT	MJ	1.17E+02	6.40E+00	9.05E-01	5.44E-03	1.63E+00	0.00E+00	1.69E+00	0.00E+00
	SM	kg	5.77E-02	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	RSF	MJ	5.91E-02	3.15E-03	5.20E-04	3.03E-06	1.24E-03	0.00E+00	7.30E-04	0.00E+00
	NRSF	MJ	1.47E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	1.92E-02	4.31E-04	6.60E-04	3.81E-05	1.69E-04	0.00E+00	3.94E-03	0.00E+00	

DECIBEL 3	WASTES	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	HWD	kg	1.27E-01	6.59E-03	4.45E-03	4.00E-04	2.28E-03	0.00E+00	4.84E-02	0.00E+00
	NHWD	kg	3.52E+00	4.32E-01	1.68E-01	1.16E-02	9.99E-02	0.00E+00	7.73E+00	0.00E+00
	TRWD	kg	4.70E-04	4.37E-05	7.35E-07	1.25E-08	1.07E-05	0.00E+00	7.29E-06	0.00E+00

DECIBEL 3	OUTPUT FLOWS	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	CFR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MFR	kg	1.06E-02	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	EE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.36E+01	0.00E+00

SOUNDSEAL ACOUSTIC INSULATION - DECIBEL 4

Environmental indicator results for all declared modules are shown in the following tables for the declared unit of 1m² of Decibel 4 Soundseal Acoustic Insulation; the A1 - A3 modules are shown on an aggregated basis.

DECIBEL 4	ENVIRONMENTAL IMPACTS	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	GWP-fossil	kg CO ₂ eq	4.75E+00	4.07E-01	1.94E-01	2.62E-02	1.05E-01	0.00E+00	2.98E+00	0.00E+00
	GWP-biogenic	kg CO ₂ eq	2.37E-01	0.00E+00	1.02E-01	1.22E-06	0.00E+00	0.00E+00	6.63E-03	0.00E+00
	GWP-luluc	kg CO ₂ eq	2.92E-03	1.55E-04	2.06E-05	1.56E-07	5.90E-05	0.00E+00	3.74E-05	0.00E+00
	GWP-total	kg CO ₂ eq	4.84E+00	4.08E-01	1.94E-01	2.62E-02	1.05E-01	0.00E+00	2.98E+00	0.00E+00
	GWP-GHG	kg CO ₂ eq	4.75E+00	4.08E-01	1.94E-01	2.62E-02	1.05E-01	0.00E+00	2.98E+00	0.00E+00
	AP	mol H ⁺ eq	3.78E-02	1.66E-03	1.70E-04	5.91E-06	2.67E-04	0.00E+00	8.91E-04	0.00E+00
	EP-freshwater	kg PO ₄ ³⁻ eq	9.70E-04	2.97E-05	8.05E-06	7.50E-08	1.11E-05	0.00E+00	1.71E-05	0.00E+00
	EP-marine	kg N eq	4.16E-03	3.10E-04	4.91E-05	3.35E-06	3.64E-05	0.00E+00	4.46E-04	0.00E+00
	EP-terrestrial	mol N eq	3.54E-02	3.40E-03	4.70E-04	2.84E-05	3.74E-04	0.00E+00	3.85E-03	0.00E+00
	POCP	kg NMVOC eq	1.88E-02	1.20E-03	1.50E-04	6.83E-06	1.77E-04	0.00E+00	9.98E-04	0.00E+00
	ODP	kg CFC-11 eq	1.40E-06	9.20E-08	1.65E-09	6.22E-11	2.25E-08	0.00E+00	1.96E-08	0.00E+00
	ADPMM	kg Sb eq	4.40E-04	1.08E-05	4.14E-07	9.22E-09	5.18E-06	0.00E+00	2.00E-06	0.00E+00
	ADPFF	MJ, ncv	1.33E+02	6.03E+00	8.65E-01	5.29E-03	1.54E+00	0.00E+00	1.61E+00	0.00E+00
WDP	m ³ world-eq deprvd	9.94E+01	5.67E+00	5.21E-01	4.20E-03	2.42E+00	0.00E+00	8.11E-01	0.00E+00	

DECIBEL 4	RESOURCE USE	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	PERE	MJ	1.43E+00	8.51E-02	2.92E-02	1.80E-04	3.34E-02	0.00E+00	3.62E-02	0.00E+00
	PERM	MJ	1.04E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	PERT	MJ	2.46E+00	8.51E-02	2.92E-02	1.80E-04	3.34E-02	0.00E+00	3.62E-02	0.00E+00
	PENRE	MJ	4.32E+01	6.15E+00	5.75E-01	5.44E-03	1.59E+00	0.00E+00	1.65E+00	0.00E+00
	PENRM	MJ	9.83E+01	0.00E+00	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	PENRT	MJ	1.41E+02	6.15E+00	9.05E-01	5.44E-03	1.59E+00	0.00E+00	1.65E+00	0.00E+00
	SM	kg	5.77E-02	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	RSF	MJ	8.74E-02	3.03E-03	5.20E-04	3.03E-06	1.21E-03	0.00E+00	7.13E-04	0.00E+00
	NRSF	MJ	1.98E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	2.90E-02	4.14E-04	6.60E-04	3.81E-05	1.65E-04	0.00E+00	3.85E-03	0.00E+00	

DECIBEL 4	WASTES	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	HWD	kg	1.95E-01	6.34E-03	4.41E-03	4.00E-04	2.23E-03	0.00E+00	4.73E-02	0.00E+00
	NHWD	kg	4.70E+00	4.16E-01	1.67E-01	1.16E-02	9.76E-02	0.00E+00	7.54E+00	0.00E+00
	TRWD	kg	5.10E-04	4.20E-05	7.34E-07	1.25E-08	1.05E-05	0.00E+00	7.12E-06	0.00E+00

DECIBEL 4	OUTPUT FLOWS	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	CFR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MFR	kg	1.54E-02	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	EE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.28E+01	0.00E+00

SOUNDSEAL ACOUSTIC INSULATION - DECIBEL COMPACT 2

Environmental indicator results for all declared modules are shown in the following tables for the declared unit of 1m² of Decibel Compact 2 Soundseal Acoustic Insulation; the A1 - A3 modules are shown on an aggregated basis.

DECIBEL COMPACT 2	ENVIRONMENTAL IMPACTS	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	GWP-fossil	kg CO ₂ eq	2.78E+00	2.88E-01	1.48E-01	2.62E-02	7.19E-02	0.00E+00	2.03E+00	0.00E+00
	GWP-biogenic	kg CO ₂ eq	1.74E-01	0.00E+00	1.48E-01	1.22E-06	0.00E+00	0.00E+00	4.53E-03	0.00E+00
	GWP-luluc	kg CO ₂ eq	2.84E-03	1.09E-04	2.07E-05	1.56E-07	4.03E-05	0.00E+00	2.55E-05	0.00E+00
	GWP-total	kg CO ₂ eq	2.85E+00	2.88E-01	1.48E-01	2.62E-02	7.19E-02	0.00E+00	2.03E+00	0.00E+00
	GWP-GHG	kg CO ₂ eq	2.79E+00	2.88E-01	1.48E-01	2.62E-02	7.19E-02	0.00E+00	2.03E+00	0.00E+00
	AP	mol H ⁺ eq	2.11E-02	1.17E-03	1.70E-04	5.91E-06	1.83E-04	0.00E+00	6.09E-04	0.00E+00
	EP-freshwater	kg PO ₄ ³⁻ eq	5.50E-04	2.10E-05	8.06E-06	7.50E-08	7.61E-06	0.00E+00	1.17E-05	0.00E+00
	EP-marine	kg N eq	2.38E-03	2.19E-04	4.84E-05	3.35E-06	2.49E-05	0.00E+00	3.04E-04	0.00E+00
	EP-terrestrial	mol N eq	2.03E-02	2.40E-03	4.60E-04	2.84E-05	2.56E-04	0.00E+00	2.63E-03	0.00E+00
	POCP	kg NMVOC eq	1.01E-02	8.50E-04	1.40E-04	6.83E-06	1.21E-04	0.00E+00	6.82E-04	0.00E+00
	ODP	kg CFC-11 eq	6.52E-07	6.51E-08	1.65E-09	6.22E-11	1.54E-08	0.00E+00	1.34E-08	0.00E+00
	ADPMM	kg Sb eq	2.80E-04	7.61E-06	4.14E-07	9.22E-09	3.54E-06	0.00E+00	1.36E-06	0.00E+00
	ADPFF	MJ, ncv	7.35E+01	4.26E+00	8.65E-01	5.29E-03	1.05E+00	0.00E+00	1.10E+00	0.00E+00
	WDP	m ³ world-eq deprvd	5.04E+01	4.01E+00	5.21E-01	4.20E-03	1.65E+00	0.00E+00	5.54E-01	0.00E+00

DECIBEL COMPACT 2	RESOURCE USE	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	PERE	MJ	5.11E-02	6.02E-02	2.93E-02	1.80E-04	2.28E-02	0.00E+00	2.47E-02	0.00E+00
	PERM	MJ	1.51E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	PERT	MJ	1.56E+00	6.02E-02	2.93E-02	1.80E-04	2.28E-02	0.00E+00	2.47E-02	0.00E+00
	PENRE	MJ	1.02E+01	4.35E+00	5.74E-01	5.44E-03	1.09E+00	0.00E+00	1.13E+00	0.00E+00
	PENRM	MJ	6.92E+01	0.00E+00	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	PENRT	MJ	7.94E+01	4.35E+00	9.04E-01	5.44E-03	1.09E+00	0.00E+00	1.13E+00	0.00E+00
	SM	kg	5.77E-02	0.00E+00	1.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	RSF	MJ	4.26E-02	2.14E-03	5.20E-04	3.03E-06	8.28E-04	0.00E+00	4.87E-04	0.00E+00
	NRSF	MJ	2.82E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	1.64E-02	2.93E-04	6.50E-04	3.81E-05	1.13E-04	0.00E+00	2.63E-03	0.00E+00	

DECIBEL COMPACT 2	WASTES	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	HWD	kg	9.13E-02	4.49E-03	4.33E-03	4.00E-04	1.52E-03	0.00E+00	3.23E-02	0.00E+00
	NHWD	kg	2.54E+00	2.94E-01	1.79E-01	1.16E-02	6.66E-02	0.00E+00	5.15E+00	0.00E+00
	TRWD	kg	3.10E-04	2.97E-05	7.35E-07	1.25E-08	7.14E-06	0.00E+00	4.86E-06	0.00E+00

DECIBEL COMPACT 2	OUTPUT FLOWS	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	CFR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MFR	kg	7.57E-03	0.00E+00	1.10E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	EE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.24E+01	0.00E+00

SOUNDSEAL ACOUSTIC INSULATION - DECIBEL WOOD

Environmental indicator results for all declared modules are shown in the following tables for the declared unit of 1m² of Decibel Wood Soundseal Acoustic Insulation; the A1 - A3 modules are shown on an aggregated basis.

DECIBEL WOOD	ENVIRONMENTAL IMPACTS	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	GWP-fossil	kg CO ₂ eq	1.95E+00	2.16E-01	1.01E-01	2.62E-02	5.39E-02	0.00E+00	1.52E+00	0.00E+00
	GWP-biogenic	kg CO ₂ eq	1.28E-01	0.00E+00	2.77E-02	1.22E-06	0.00E+00	0.00E+00	3.40E-03	0.00E+00
	GWP-luluc	kg CO ₂ eq	9.70E-04	8.21E-05	1.99E-05	1.56E-07	3.02E-05	0.00E+00	1.92E-05	0.00E+00
	GWP-total	kg CO ₂ eq	2.00E+00	2.16E-01	1.01E-01	2.62E-02	5.40E-02	0.00E+00	1.52E+00	0.00E+00
	GWP-GHG	kg CO ₂ eq	1.95E+00	2.16E-01	1.01E-01	2.62E-02	5.40E-02	0.00E+00	1.52E+00	0.00E+00
	AP	mol H ⁺ eq	1.51E-02	8.80E-04	1.50E-04	5.91E-06	1.37E-04	0.00E+00	4.57E-04	0.00E+00
	EP-freshwater	kg PO ₄ ³⁻ eq	3.30E-04	1.58E-05	7.68E-06	7.50E-08	5.71E-06	0.00E+00	8.77E-06	0.00E+00
	EP-marine	kg N eq	1.55E-03	1.64E-04	3.38E-05	3.35E-06	1.87E-05	0.00E+00	2.28E-04	0.00E+00
	EP-terrestrial	mol N eq	1.36E-02	1.80E-03	3.30E-04	2.84E-05	1.92E-04	0.00E+00	1.97E-03	0.00E+00
	POCP	kg NMVOC eq	7.00E-03	6.38E-04	1.10E-04	6.83E-06	9.07E-05	0.00E+00	5.11E-04	0.00E+00
	ODP	kg CFC-11 eq	4.83E-07	4.89E-08	1.37E-09	6.22E-11	1.15E-08	0.00E+00	1.01E-08	0.00E+00
	ADPMM	kg Sb eq	1.30E-04	5.71E-06	3.71E-07	9.22E-09	2.65E-06	0.00E+00	1.02E-06	0.00E+00
	ADPFF	MJ, ncv	5.33E+01	3.20E+00	8.39E-01	5.29E-03	7.91E-01	0.00E+00	8.27E-01	0.00E+00
	WDP	m ³ world-eq deprvd	3.59E+01	3.01E+00	5.04E-01	4.20E-03	1.24E+00	0.00E+00	4.15E-01	0.00E+00

DECIBEL WOOD	RESOURCE USE	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	PERE	MJ	5.70E-01	4.52E-02	2.84E-02	1.80E-04	1.71E-02	0.00E+00	1.86E-02	0.00E+00
	PERM	MJ	2.88E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	PERT	MJ	8.58E-01	4.52E-02	2.84E-02	1.80E-04	1.71E-02	0.00E+00	1.86E-02	0.00E+00
	PENRE	MJ	5.18E+00	3.27E+00	5.49E-01	5.44E-03	8.15E-01	0.00E+00	8.46E-01	0.00E+00
	PENRM	MJ	5.20E+01	0.00E+00	3.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	PENRT	MJ	5.72E+01	3.27E+00	8.79E-01	5.44E-03	8.15E-01	0.00E+00	8.46E-01	0.00E+00
	SM	kg	2.22E-02	0.00E+00	1.60E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	RSF	MJ	3.00E-02	1.61E-03	5.00E-04	3.03E-06	6.21E-04	0.00E+00	3.65E-04	0.00E+00
	NRSF	MJ	9.84E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m ³	1.06E-02	2.20E-04	5.30E-04	3.81E-05	8.47E-05	0.00E+00	1.97E-03	0.00E+00	

DECIBEL WOOD	WASTES	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	HWD	kg	6.02E-02	3.37E-03	2.62E-03	4.00E-04	1.14E-03	0.00E+00	2.42E-02	0.00E+00
	NHWD	kg	1.68E+00	2.21E-01	8.33E-02	1.16E-02	5.00E-02	0.00E+00	3.86E+00	0.00E+00
	TRWD	kg	2.30E-04	2.23E-05	6.76E-07	1.25E-08	5.35E-06	0.00E+00	3.65E-06	0.00E+00

DECIBEL WOOD	OUTPUT FLOWS	Unit	A1 - A3	A4	A5	C1	C2	C3	C4	D
	CFR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MFR	kg	5.23E-03	0.00E+00	7.63E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	MER	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	EE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.68E+01	0.00E+00

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Glossary

The International EPD® System: a programme for Type III environmental declarations, maintaining a system to verify and register EPDs as well as keeping a library of EPDs and PCRs in accordance with ISO 14025. (www.environdec.com)

Life cycle assessment (LCA): LCA studies the environmental aspects and quantifies the potential impacts (positive or negative) of a product (or service) throughout its entire life. ISO standards ISO 14040 and ISO 14044 set out conventions for conducting LCA.

REACH Regulation: REACH is the European Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals. It entered into force in 2007, replacing the former legislative framework for chemicals in the EU.