

ENVIRONMENTAL PRODUCT DECLARATION

as per ISO 14025 and EN 15804+A2

Owner of the Declaration	Kvadrat Acoustics A/S
Publisher	Institut Bauen und Umwelt e.V. (IBU)
Programme holder	Institut Bauen und Umwelt e.V. (IBU)
Declaration number	EPD-KVC-20240080-CBA1-EN
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Valid to	09.06.2029

Kvadrat Acoustics Track
Kvadrat Acoustics

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General Information

Kvadrat Acoustics	Kvadrat Acoustics Track								
Programme holder IBU – Institut Bauen und Umwelt e.V. Hegelplatz 1 10117 Berlin Germany	Owner of the declaration Kvadrat Acoustics A/S Orient Plads 1, 1 2150 Nordhavn Denmark								
Declaration number EPD-KVC-20240080-CBA1-EN	Declared product / declared unit 1m ² configurable acoustic frame system								
This declaration is based on the product category rules: Textile covered acoustic frame systems, 01.08.2021 (PCR checked and approved by the SVR)	Scope: The declaration covers the average product Kvadrat Acoustics Track with an ABS frame and the Trevira CS textile option CASA. The Kvadrat Acoustics Track is a configurable textile-covered acoustic frame system from the company Kvadrat Acoustics. It is available with an ABS frame in customized sizes ranging from 1000 mm x 1000 mm x 25 mm to 6000 mm x 3000 mm x 25 mm (L x W x H) and the textile option CASA under the textile series Trevira CS. The product is declared as a kit since it is available by a single manufacturer as a set of multiple separate components, which are assembled at the building site. All products included in this average EPD are produced in Kvadrat Acoustics site in United Kingdom and distributed to the market of the United Kingdom. The products' components (including the Trevira CS textile CASA) are manufactured by Kvadrat Acoustics suppliers located in United States of America (Illinois) and Europe (Germany, Czech Republic, United Kingdom). Production data were collected for the year 2022. 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 <i>EN 15804</i> .								
Issue date 10.06.2024	Verification <table><tr><td colspan="2">The standard EN 15804 serves as the core PCR</td></tr><tr><td colspan="2">Independent verification of the declaration and data according to ISO 14025:2011</td></tr><tr><td>☐</td><td>internally</td></tr><tr><td>☒</td><td>externally</td></tr></table>	The standard EN 15804 serves as the core PCR		Independent verification of the declaration and data according to ISO 14025:2011		☐	internally	☒	externally
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☒	externally								
Valid to 09.06.2029									
 Dipl.-Ing. Hans Peters (Chairman of Institut Bauen und Umwelt e.V.)	 Dr.-Ing. Nikolay Minkov, (Independent verifier)								
 Florian Pronold (Managing Director Institut Bauen und Umwelt e.V.)									

Product

Product description/Product definition

Kvadrat Acoustics Track with ABS profile and Trevira CS CASA textile is a site-fabricated acoustical wall system, which stretches textile over semi-rigid acoustic padding to control sound and add to the aesthetic design of interior spaces. The product is available in customized sizes and different textile options under the trade name Kvadrat Acoustics Track. This EPD includes only the Kvadrat Acoustics Track with ABS frame and Trevira CS textile CASA. The product is declared as a construction product 'kit', since it consists of multiple separate components and is placed on the market by a single manufacturer. The system consists of a single-sided layer of tensioned textile, attached to an ABS frame profile, over a mineral-based acoustic core.

For the use and application of the product, the respective national provisions at the place of use apply, in Germany for example the Building Codes of the federal states and the corresponding national specifications.

Application

Kvadrat Acoustics Track controls sound and adds to the aesthetic design of interior spaces. The system is intended for interior walls and is particularly well suited for spaces with severe to moderate need for sound absorption, large free wall surfaces, and late changes as the tracks are built on-site. It is installed directly on a wall substrate and can be applied in many different markets, architectural needs and acoustic environments.

Technical Data

The product has a sound adsorption class C according to ISO 11654 with a sound absorption coefficient of 0.6 (ISO 354). The fire performance is C-s2,d0. The dimensions of the system after its installation in the building site are:

Typical size panel: 2700 mm x 1300 mm x 25 mm
Min. size panel: 1000 mm x 1000 mm x 25 mm
Max. size panel: 6000 mm x 3000 mm x 25 mm

The components comprising the product kit are delivered at the building site with the following dimensions. The components arrive at the building site in fixed dimensions however, the number of component pieces differs across systems with different sizes.

ABS frame (profiles): 2700 mm x 26 mm x 23 mm
Mineral glass wool absorber: 1200 mm x 1200 mm x 22 mm
Trevira CS CASA textile (roll): 400 mm x 400 mm x 1500 mm

Constructional data

Name	Value	Unit
Sound absorption class cf. ISO 11654	C	-
Sound absorption coefficient cf. ISO-354	0.6	-
Dimensions max. (L x W x H)	6000x3000x25	mm
Dimensions min. (L x W x H) *	1000x1000x25	mm
Fire performance cf. EN-13501-1	C-s2,d0	-

* Smaller sizes are available from Kvadrat Acoustics, but are not covered by the EPD.

Performance data of the product with respect to its characteristics in accordance with the relevant technical provision (no CE-making).

Base materials/Ancillary materials

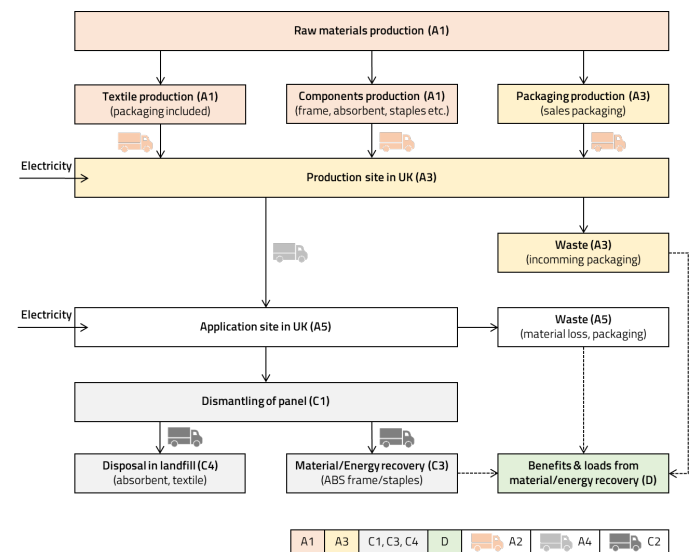
The constituents of the product are shown in the table below. Packaging materials are not included. The Kvadrat Acoustics Track system consists of an ABS frame, a layer of mineral glass wool absorber, Trevira CS CASA textile (polyester textile) for the panel's wear. Installation staples (galvanised steel) are also included in the product kit. The amount of staples is 0.17 kg/m² of Kvadrat Acoustics Track. The sales packaging includes corrugated cardboard (tubes for ABS frame), galvanised steel (end-caps for tubes), core board and high density polyethylene (HD PE) film packaging for the Trevira CS CASA textile roll.

This product does not contain substances listed in the candidate list (date: 25.06.2020) exceeding 0.1 percentage by mass.

Name	Value	Unit
ABS frame (ABS profile)	13.02	wt-%
Sound absorber (mineral glass wool)	74.88	wt-%
Trevira CS CASA textile (polyester textile)	6.09	wt-%
Staples for frame (galvanised steel)	4.93	wt-%
Staples for absorbent (galvanised steel)	1.08	wt-%

Manufacturing and assembly

The ABS frame profile is manufactured by a supplier in Illinois, United States of America. The rest of the components are manufactured by Kvadrat Acoustics suppliers, located in Europe. The components are delivered to Kvadrat Acoustics site in the United Kingdom, where they are stored temporarily and assembled into a kit before being transported to the application sites. Kvadrat Acoustics Track is assembled and installed at the building site (United Kingdom). This procedure includes cutting the frame profiles, absorber, and textile to the required size and installing the panel. Most of these activities are done manually without any material consumption. An electric staple gun compressor is used for the installation of staples. After the building or the product reaches its end-of-life stage, the system is removed and dismantled. This process requires mostly manual work.



Reference service life

The Service Life declared by the manufacturer is 50 years.

LCA: Calculation rules

Declared Unit

The declared unit is 1 m² configurable acoustic frame system with weight of 2.79 kg/m². The final LCA results refer to a typical Kvadrat Acoustics Track size of 2700 mm x 1300 mm x 25 mm (L x W x H), which represents all the product sizes included in this EPD. All Kvadrat Acoustics Track sizes, included in this EPD, consist of the same type of components and no variation takes place regarding the components' type. The amount of each component per declared unit differs between different product sizes. No component was included as an unweighted average. The results correspond to a typical Kvadrat Acoustics Track size of 1300 mm x 2700 mm x 25 mm (L x W x H), which represents all the product sizes included in this EPD. Finally, this EPD covers only the Trevira CS textile option CASA, which is a polyester textile.

Declared unit

The declared unit is 1 m² configurable acoustic frame system with a conversion factor of 2.79 kg/m².

Name	Value	Unit
Declared unit	1	m ²
Grammage	2.79	kg/m ²
Content of frame (based on weight)	13.02	%
Content of textile membrane (based on weight)	6.09	%
Content of in-fill (based on weight)	74.88	%
Deviation from frame (max. kg/m ²)*	75.49	%
Panel size typical	3.51	m ²
Layer thickness	0.025	m

* The maximum percentage deviation of the frame refers to the minimum size (1000 mm x 1000 mm x 25 mm). For the maximum size (3000 mm x 6000 mm x 25 mm) the deviation is -56.13 %.

The LCA values included in this EPD are considered robust. The reference product groups considered in this EPD are assembled into kits in the same production/storing facility, while the components are manufactured by the same suppliers. In addition, the background datasets used are representative of the geographical scope, technologies and production processes used. Therefore, variations in geography are not relevant. Plant production data for the period of 2022-2023 were collected.

System boundary

The EPD is of the type cradle-to-gate with options, modules A4, A5, C1-C4 and D. The product stage (A1-A3) includes:

- A1** - Raw material extraction, processing, processing of secondary material input (e.g. recycling processes) and production of the components. The production of excess components to compensate for material losses during the installation phase, as well as the production of ancillary materials (installation screws), are accounted for in module A1 because the product is declared as a kit.
- A2** - Transport of components and packaging from the suppliers to Kvadrat Acoustics site.
- A3** - Assembly of components into a product kit. The production of sales packaging (plastic, core board, corrugated cardboard tubes, steel end-caps packaging for the textile and frame) is included in module A3.

The construction process stage (A4-A5) includes:

A4 - Transport of the kit from Kvadrat Acoustics site to the building site.

A5 - Installation of Kvadrat Acoustics Track system at the application site including in-situ processing of components (cutting the components to the correct size, installing the staples). Module A5 also includes the transport and processing of waste (material loss, packaging) generated in the application site.

The end-of-life stage includes:

C1 - Deconstruction and dismantling of the system. The manual dismantling impact of the system is considered negligible and module C1 is reported without any impacts.

C2 - Transport of waste from the building site to Material Recovery Facilities (MRF), as well as transport of recyclable and non-recyclable waste from MRF to recycling facilities and landfill, respectively.

C3 - Waste processing for dismantling the system into components and sorting the components/materials to waste for material recovery and landfill.

C4 - Disposal of non-recyclable components/materials (textile, absorber) to landfill.

Module D includes reuse, recovery and/or recycling potentials. Benefits originating from the recycling of material loss and metal components after reaching their end-of-life stage, as well as the incineration of plastic packaging, were considered in module D

Geographic Representativeness

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

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.

Data Quality

Background data were retrieved from Managed LCA Content database (formerly known as GaBi database) version 2022.2 provided by Sphera and Ecoinvent database. The quality of foreground and background data is considered very good and all major processes are represented with data of good quality in compliance with the stated criteria from the PCR. In addition, the conservative approach was adopted when foreground data quality was insufficient. The background data are up to date and the temporal data quality requirements of the PCR are generally met. The temporal span of the background data used ranges from 2015 to 2025 and no data are more than 10 years old. Allocation of energy used for storing, moving and assembling the product kit in module A3 was performed. The allocation key is the area occupied by the Kvadrat Acoustics Track in the warehouse since the activities are dependent on the product's area.

LCA: Scenarios and additional technical information

Characteristic product properties of biogenic carbon

Kvadrat acoustics

The Kvadrat Acoustics Track with the Trevira CS textile CASA do not include any materials with biogenic carbon content. The product's packaging includes biogenic carbon due to the presence of a core board and corrugated cardboard in the Trevira CS textile CASA and ABS frame packaging.

Information on describing the biogenic Carbon Content at factory gate

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

Name	Value	Unit
Biogenic carbon content in product	-	kg C
Biogenic carbon content in accompanying packaging (core board)	0.057	kg C

Technical scenario information for the declared modules A4, A5, C1-C4 and D is provided in the following tables. The electricity consumption and material loss in module A5 were measured for the typical Kvadrat Acoustics Track size based on the actual activities taking place during the system's installation at the building site. An end-of-life (EoL) scenario was established for the packaging waste in module A5 which assumes that the core board and plastic packaging waste is recycled, based on Kvadrat Acoustics activities.

Transport to the building site (A4)

Name	Value	Unit
Litres of fuel	0.0221	l/100km
Transport distance	154	km
Capacity utilisation (including empty runs)	51	%
Gross density of products transported	124.52	kg/m ³

Installation into the building (A5)

Name	Value	Unit
Electricity consumption	0.0128	kWh
Material loss (ABS frame, Trevira CS textile CASA)	0.0295	kg
Plastic packaging for recycling	3.53E-03	kg
Core board packaging for recycling	1.40E-01	kg
Galvanised steel packaging for recycling	8.76E-03	kg

Reference service life

Name	Value	Unit
(Technical) Service life	50	years

End of life (C1 - C4)

Name	Value	Unit
ABS frame	100	% incineration with energy recovery
Galvanised steel staples EoL scenario	100	% recycling
Mineral glass wool absorber EoL scenario	100	% landfill
Trevira CS textile EoL scenario	100	% landfill
Collected separately waste type	-	kg
Collected as mixed construction waste	2.79	kg
Recycling	0.17	kg
Energy recovery	0.36	kg
Landfilling	2.26	kg

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

Name	Value	Unit
Replaced primary galvanized steel (staples)	0.16	kg
Replaced primary ABS (material loss, frame)	8.38E-03	kg
Replaced primary polyester textile (material loss, Trevira textile CASA)	2.04E-02	kg
Replaced primary galvanised steel (sales packaging, ABS frame)	8.32E-03	kg
Replaced primary HD PE (sales packaging, Trevira CS textile CASA)	3.18E-03	kg
Replaced electricity (grid mix)	0.61	kWh
Replaced thermal energy (natural gas)	4.02	MJ

LCA: Results

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

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

RESULTS OF THE LCA - ENVIRONMENTAL IMPACT according to EN 15804+A2: 1 m² Kvadrat Acoustics Track

Parameter	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
GWP-total	kg CO ₂ eq	6.32E+00	2.73E-01	9.47E-03	1.02E-01	2.5E-01	0	1.09E-01	7.75E-01	2.51E-01	-7.79E-01
GWP-fossil	kg CO ₂ eq	6.57E+00	2.71E-01	2.6E-01	1.01E-01	3.86E-02	0	1.08E-01	7.75E-01	5.28E-02	-7.76E-01
GWP-biogenic	kg CO ₂ eq	-2.51E-01	-5.55E-04	-2.51E-01	-2.8E-04	2.12E-01	0	-2.96E-04	-2.69E-05	1.99E-01	-2.85E-03
GWP-luluc	kg CO ₂ eq	7.73E-03	2.11E-03	5.86E-04	9.51E-04	1.89E-04	0	1.01E-03	5.95E-05	1.07E-04	-2.88E-04
ODP	kg CFC11 eq	7.53E-09	3.4E-14	1.07E-09	1.34E-14	1.38E-09	0	1.42E-14	9.74E-14	9.95E-14	-3.44E-12
AP	mol H ⁺ eq	2.96E-02	1.1E-03	1.24E-03	1.48E-04	9.34E-05	0	1.79E-04	6.39E-04	2.83E-04	-1.26E-03
EP-freshwater	kg P eq	2.99E-05	8.54E-07	2.53E-05	3.75E-07	1.33E-06	0	3.98E-07	5.18E-08	2.37E-06	-3.96E-07
EP-marine	kg N eq	5.51E-03	4.47E-04	2.92E-04	5.31E-05	3.52E-05	0	6.81E-05	3.15E-04	1.78E-04	-3.51E-04
EP-terrestrial	mol N eq	1.19E-01	5.01E-03	2.78E-03	6.33E-04	3.67E-04	0	7.98E-04	3.56E-03	8.55E-04	-3.79E-03
POCP	kg NMVOC eq	1.4E-02	1.2E-03	6.99E-04	1.29E-04	1.01E-04	0	1.6E-04	8.09E-04	3.05E-04	-1.1E-03
ADPE	kg Sb eq	1.18E-05	1.74E-08	6.84E-07	6.81E-09	6E-08	0	7.21E-09	8.68E-09	1.76E-09	-4.57E-08
ADPF	MJ	1.28E+02	3.65E+00	4E+00	1.4E+00	5.61E-01	0	1.48E+00	4.01E-01	5.92E-01	-1.15E+01
WDP	m ³ world eq deprived	9.72E-01	3.08E-03	7.46E-02	1.24E-03	2.16E-03	0	1.31E-03	9.99E-02	4.31E-03	-1.67E-02

GWP = Global warming potential; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential of land and water; EP = Eutrophication potential; POCP = Formation potential of tropospheric ozone photochemical oxidants; ADPE = Abiotic depletion potential for non-fossil resources; ADPF = Abiotic depletion potential for fossil resources; WDP = Water (user) deprivation potential)

RESULTS OF THE LCA - INDICATORS TO DESCRIBE RESOURCE USE according to EN 15804+A2: 1 m² Kvadrat Acoustics Track

Parameter	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
PERE	MJ	1.79E+01	2.31E-01	1.97E+00	1.02E-01	6.76E-02	0	1.08E-01	6.38E-02	8.39E-02	-2.77E+00
PERM	MJ	3.01E+00	0	1.7E+00	0	0	0	0	0	0	0
PERT	MJ	2.1E+01	2.31E-01	3.67E+00	1.02E-01	6.76E-02	0	1.08E-01	6.38E-02	8.39E-02	-2.77E+00
PENRE	MJ	1.1E+02	3.7E+00	3.87E+00	1.4E+00	5.62E-01	0	1.49E+00	1.46E+01	5.93E-01	-1.15E+01
PENRM	MJ	1.9E+01	0	1.54E-01	0	0	0	0	-1.42E+01	0	0
PENRT	MJ	1.29E+02	3.7E+00	4.02E+00	1.4E+00	5.62E-01	0	1.49E+00	4.01E-01	5.93E-01	-1.15E+01
SM	kg	1.25E+00	0	7.16E-02	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0	0
FW	m ³	3.09E-02	2.59E-04	2.07E-03	1.11E-04	9.79E-05	0	1.18E-04	2.35E-03	1.31E-04	-1.6E-03

PERE = Use of renewable primary energy excluding renewable energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy 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

RESULTS OF THE LCA – WASTE CATEGORIES AND OUTPUT FLOWS according to EN 15804+A2: 1 m² Kvadrat Acoustics Track

Parameter	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
HWD	kg	8.31E-06	1.12E-11	1.03E-08	4.35E-12	5.89E-12	0	4.61E-12	2.22E-11	2.38E-11	-1.83E-07
NHWD	kg	2.43E-01	5.06E-04	2.57E-02	2.14E-04	1.66E-03	0	2.27E-04	2.41E-02	2.22E+00	-1.69E-03
RWD	kg	3.61E-03	7.28E-06	1.77E-04	2.63E-06	2.3E-05	0	2.78E-06	1.17E-05	6.84E-06	-4.87E-04
CRU	kg	0	0	0	0	0	0	0	0	0	0
MFR	kg	0	0	1.93E-01	0	1.82E-01	0	0	1.68E-01	0	0
MER	kg	0	0	0	0	0	0	0	3.63E-01	0	0

EEE	MJ	0	0	0	0	0	0	0	2.21E+00	0	0
EET	MJ	0	0	0	0	0	0	0	4.02E+00	0	0

HWD = Hazardous waste disposed; NHWD = Non-hazardous waste disposed; RWD = Radioactive waste disposed; CRU = Components for re-use; MFR = Materials for recycling; MER = Materials for energy recovery; EEE = Exported electrical energy; EET = Exported thermal energy

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

1 m² Kvadrat Acoustics Track

Parameter	Unit	A1	A2	A3	A4	A5	C1	C2	C3	C4	D
PM	Disease incidence	3.17E-07	2.25E-08	1.41E-08	1.29E-09	1.23E-09	0	1.22E-09	2.92E-09	3.32E-09	-1.59E-08
IR	kBq U235 eq	5.38E-01	9.93E-04	1.69E-02	3.92E-04	3.39E-03	0	4.15E-04	1.8E-03	8.57E-04	-4.99E-02
ETP-fw	CTUe	1.71E+02	2.67E+00	2.03E+00	1E+00	2.59E-01	0	1.06E+00	2.06E-01	6.32E-01	-2.64E+00
HTP-c	CTUh	5.23E-09	5.21E-11	2.95E-10	2.03E-11	1.4E-11	0	2.15E-11	8.13E-12	4.35E-11	-6.35E-10
HTP-nc	CTUh	1.34E-07	2.15E-09	1.67E-09	9.04E-10	2.93E-10	0	9.58E-10	5.93E-10	4.59E-09	-2.21E-09
SQP	SQP	6.94E+01	1.3E+00	7.24E+00	5.84E-01	1.94E-01	0	6.19E-01	9.44E-02	1.17E-01	-1.83E+00

PM = Potential incidence of disease due to PM emissions; IR = Potential Human exposure efficiency relative to U235; ETP-fw = Potential comparative Toxic Unit for ecosystems; HTP-c = Potential comparative Toxic Unit for humans (cancerogenic); HTP-nc = Potential comparative Toxic Unit for humans (not cancerogenic); SQP = Potential soil quality index

Disclaimer for the indicator 'potential Human exposure efficiency relative to U235': This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure or radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, radon and from some construction materials is also not measured by this indicator.

Disclaimer for the indicators 'abiotic depletion potential for fossil resources', 'abiotic depletion potential for non-fossil resources', 'water (user) deprivation potential, deprivation-weighted water consumption', 'potential comparative toxic unit for ecosystems', 'potential comparative toxic unit for humans - cancer effects', 'potential comparative toxic unit for humans – non-cancer effects', 'potential soil quality index': 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 experience with the indicator.

The major contributor across all environmental impact indicators (except GWP-biogenic) is module A1. This is expected since the Kvadrat Acoustics Track is a product kit, the entire manufacturing of components takes place in Kvadrat Acoustics A/S upstream supply chain. Modules A3 and A1 have the lowest negative impact in the GWP-biogenic indicator due to the production of core board/corrugated cardboard (sales packaging) and wooden pallets (incoming packaging), respectively. In addition, the activities taking place in Kvadrat Acoustics sites relate to the storing, moving and preparing of the product kit which does not require high energy consumption. Therefore, module A3 has a low contribution to the environmental impacts. Materials with secondary content are used in the mineral glass wool and are included in some secondary datasets. Finally, the use of secondary fuels is included in secondary datasets yet no secondary fuels are used in Kvadrat Acoustics sites.

References

ISO 11654

ISO 11654, 1997: Acoustics — Sound absorbers for use in buildings — Rating of sound absorption

EN 13501-1

EN13501-1, 2018: Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests.

ISO 14025

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

EN 15804

EN 15804:2019+A2 (in press), Sustainability of construction works — Environmental Product Declarations — Core rules for the product category of construction products.

ISO 354

ISO 354, 2013: Acoustics - Measurement of sound absorption in a reverberation room.

ECHA Candidate List

List of substances of very high concern considered for approval (status 25.06.2020) according to Article 59 para. 10 of the REACH Regulation. European Chemicals Agency

GaBi LCA software and database

The LCA modelling software is GaBi program version 10.5.1.125 with corresponding databases from Sphera Solutions GmbH. Documentation www.gabisoftware.com/support/gabi.

IBU PCR 2023, Part B

Requirements on the EPD for Textile covered acoustic frame systems. Version 2.0; 2023.

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The Product Category Rules for Building-Related Products and Services, Part A: Calculation Rules for the Life Cycle Assessment and Requirements on the Project Report according to EN 15804+A2:2019, Version 1.4. from Institut Bauen und Umwelt e.V. (IBU)

IBU 2021

Institut Bauen und Umwelt e.V.: General Instructions for the EPD programme of Institut Bauen und Umwelt e.V. Version 2.0, Berlin: Institut Bauen und Umwelt e.V., 2021. www.ibu-epd.com.



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

+49 (0)30 3087748- 0
info@ibu-epd.com
www.ibu-epd.com



Programme holder

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

+49 (0)30 3087748- 0
info@ibu-epd.com
www.ibu-epd.com



Author of the Life Cycle Assessment

FORCE Technology
Park Alle 345
2605 Brøndby
Denmark

+4543250856
chme@forcetechnology.com
www.forcetechnology.com

kvadrat acoustics

Owner of the Declaration

Kvadrat Acoustics A/S
Orient Plads 1, 1
2150 Nordhavn
Denmark

+4589531866
kvadratacoustics@kvadrat.org
www.kvadratacoustics.com