Result summary

Auckland

Vescom BV

Calculation number:	EPD-NIBE-20230125-34105
Generation on:	30-03-2023
Issue date:	30-03-2023
Valid until:	30-03-2028
Status:	verified

R<THiNK

1 General information

1.1 PRODUCT

Auckland

1.2 VALIDITY

Issue date 30-03-2023
Valid until: 30-03-2028

1.3 OWNER OF THE DECLARATION

Manufacturer: Vescom BV
Address: Sint Jozefstraat 20, 5753 AV Deurne
E-mail: info@vescom.com:
Website: www.vescom.com
Production location: Vescom Textiles GmbH

Address production location: August-Horch-Str. 16, 95213 Münchberg

1.4 VERIFICATION OF THE DECLARATION

CEN standard EN 15804 serves as the core PCR. In compliance with ISO 14040:2006 and 14044:2006.
Independent verification of the declaration according to EN ISO 14025:2011-10.
☐ Internal ☑ External

Anne Kees Jeeninga, Advieslab

1.5 THIS DECLARATION IS BASED ON THE PRODUCT CATEGORY RULES

Horizontal PCR INSIDE/INSIDE v1.2 2018-12-10

1.6 FUNCTIONAL / DECLARED UNIT

1m2 fabric

Declared unit: square meter (m2)

1m2 fabric to be used as upholstery of furniture.
The fabric weights 0,499 kg/m2 and has a reference service life of 10 years.
In line with the Inside/Inside horizontal PCR v1.3 (2021), A4 is scalable. The average profile 'Lorry (truck) unspecified' is assumed as most representative.

1.7 CONVERSION FACTORS

Description	Value	Unit
Declared unit	1	m2
Weight per declared unit	0.499	kg

1 General information

Description	Value	Unit
Conversion factor to 1 kg	1.000593	m2

1.8 SCOPE OF DECLARATION AND SYSTEM BOUNDARIES

This is a Cradle to gate with options, modules C1-C4 and module D LCA. The life cycle stages included are as shown below:

(X = module included, ND = module not declared)

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	X	X	X	ND	ND	ND	ND	X	X	X	X	X

The modules of the EN15804 contain the following:

Module A1 = Raw material supply	Module B5 = Refurbishment
Module A2 = Transport	Module B6 = Operational energy use
Module A3 = Manufacturing	Module B7 = Operational water use
Module A4 = Transport	Module C1 = De-construction / Demolition
Module A5 = Construction - Installation process	Module C2 = Transport
Module B1 = Use	Module C3 = Waste Processing
Module B2 = Maintenance	Module C4 = Disposal
Module B3 = Repair	Module D = Benefits and loads beyond the product system boundaries
Module B4 = Replacement	

1.9 COMPARABILITY

In principle, a comparison or assessment of the environmental impacts of different products is only possible if they have been prepared in accordance with EN 15804. For the evaluation of the comparability, the following aspects have to be considered in particular: PCR used, functional or declared unit, geographical reference, the definition of the system boundary, declared modules, data selection (primary or secondary data, background database, data quality), scenarios used for use and disposal phases, and the life cycle inventory (data collection, calculation methods, allocations, validity period). PCRs and general program instructions of different EPDs programs may differ. Comparability needs to be evaluated. For further guidance, see EN 15804+A2 (5.3 Comparability of EPD for construction products) and ISO 14025 (6.7.2 Requirements for comparability).

2 Product

2.1 PRODUCT DESCRIPTION

Vescom produces high-quality interior products for the international project market mainly in the hospitality, healthcare, retail, offices and education segments.

Vescom develops, produces and distributes wall coverings, upholstery and curtain fabrics. The coverings and fabrics are available in a wide variety of materials, structures, textures and colours.

This LCA considers Auckland, a jacquard woven upholstery fabric made from polyester yarn. The polyester consists for 75,8% of recycled content.

The reference service life is 10 years.
Technical information

Among others fire resistance, wear resistance and tensile strength tests are done.

- Wear resistance, according to ISO 12947–2; 60,000 rubs martindale and according to ASTM D4157; 80,000 double rubs wyzenbeek.
- Tensile strength, according to ISO 13934–1; chain 155 N / weft > 250 N

2.2 DESCRIPTION PRODUCTION PROCESS

Yarn is delivered at the production site. In the factory the yarn is woven into fabric, coloured and washed. The energy needed for these production steps is included in the LCA. After the production process the fabric is inspected manually before packing and shipping. The shipping transport distance is variable and set at 1 km.

2.3 CONSTRUCTION DESCRIPTION

Depending on the final application of the fabric, it must undergo additional processes. These processes should be added separately when the specific processes/values of the project are known, and are left outside the scope of this LCA. Hence, users of the LCA can determine for their respective project what the value must be, and find their sources accordingly. Therefore, apart from the packaging material waste and construction waste, the LCA does not take this module into account, but should be added when the LCA is used in a specific product.

3 Results

3.1 ENVIRONMENTAL IMPACT INDICATORS PER SQUARE METER

CORE ENVIRONMENTAL IMPACT INDICATORS EN15804+A1

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ADPE	Kg Sb	1.95E-5	1.22E-6	1.20E-5	6.49E-9	2.71E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.78E-7	2.87E-6	1.13E-8	2.75E-5	6.63E-5
ADPF	MJ	2.33E+1	7.12E-1	1.41E+1	3.80E-3	1.82E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.80E-1	1.49E+0	2.44E-2	2.04E+1	6.21E+1
AP	Kg SO2 Equiv.	6.70E-3	2.09E-4	4.62E-3	1.12E-6	6.46E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.23E-5	7.91E-4	7.01E-6	7.53E-3	2.06E-2
ODP	Kg CFC-11 Equiv.	1.34E-7	8.44E-9	1.32E-7	4.51E-11	1.86E-8	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.32E-9	6.95E-8	2.62E-10	1.43E-7	5.10E-7
GWP	Kg CO2 Equiv.	1.73E+0	4.76E-2	1.15E+0	2.54E-4	2.20E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.87E-2	2.27E+0	1.26E-2	1.44E+0	6.90E+0
EP	Kg PO43- Equiv.	1.22E-3	4.11E-5	1.26E-3	2.20E-7	1.39E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.62E-5	1.29E-4	2.82E-6	1.96E-3	4.76E-3
POCP	Kg Ethene Equiv.	8.84E-4	2.87E-5	6.88E-4	1.53E-7	1.15E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.13E-5	7.94E-5	2.87E-6	1.51E-3	3.32E-3

ADPE=Depletion of abiotic resources-elements | **ADPF**=abiotic depletion of fossil resources | **AP**=Acidification of soil and water | **ODP**=Ozone layer depletion | **GWP**=Global warming | **EP**=Eutrophication | **POCP**=Photochemical oxidants creation

3.2 INDICATORS DESCRIBING RESOURCE USE AND ENVIRONMENTAL INFORMATION BASED ON LIFE CYCLE INVENTORY (LCI)

PARAMETERS DESCRIBING RESOURCE USE

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
PERE	MJ	1.96E+0	9.06E-3	2.24E+1	4.84E-5	7.59E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.57E-3	1.78E-1	4.43E-4	-9.60E+0	1.57E+1
PERM	MJ	0.00E+0	0.00E+0	1.40E+1	0.00E+0	4.21E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.45E+1
PERT	MJ	1.96E+0	9.06E-3	3.64E+1	4.84E-5	1.18E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.57E-3	1.78E-1	4.43E-4	-9.60E+0	3.01E+1
PENRE	MJ	2.39E+1	7.68E-1	1.77E+1	4.10E-3	2.03E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.02E-1	1.84E+0	2.66E-2	1.53E+1	6.19E+1

PERE=renewable primary energy ex. raw materials | **PERM**=renewable primary energy used as raw materials | **PERT**=renewable primary energy total | **PENRE**=non-renewable primary energy ex. raw materials | **PENRM**=non-renewable primary energy used as raw materials | **PENRT**=non-renewable primary energy total | **SM**=use of secondary material | **RSF**=use of renewable secondary fuels | **NRSF**=use of non-renewable secondary fuels | **FW**=use of net fresh water

3 Results

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
PENRM	MJ	1.53E+1	0.00E+0	2.99E-1	0.00E+0	4.70E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	9.94E+0	2.60E+1
PENRT	MJ	3.92E+1	7.68E-1	1.80E+1	4.10E-3	2.50E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.02E-1	1.84E+0	2.66E-2	2.52E+1	8.79E+1
SM	Kg	3.61E-1	0.00E+0	0.00E+0	0.00E+0	1.08E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.72E-1
RSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
NRSF	MJ	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
FW	M3	1.92E-2	8.82E-5	1.19E-2	4.71E-7	1.34E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.47E-5	3.39E-3	2.61E-5	3.98E-2	7.58E-2

PERE=renewable primary energy ex. raw materials | **PERM**=renewable primary energy used as raw materials | **PERT**=renewable primary energy total | **PENRE**=non-renewable primary energy ex. raw materials | **PENRM**=non-renewable primary energy used as raw materials | **PENRT**=non-renewable primary energy total | **SM**=use of secondary material | **RSF**=use of renewable secondary fuels | **NRSF**=use of non-renewable secondary fuels | **FW**=use of net fresh water

OTHER ENVIRONMENTAL INFORMATION DESCRIBING WASTE CATEGORIES

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
HWD	Kg	1.48E-5	1.83E-6	5.15E-5	9.80E-9	3.96E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.22E-7	3.32E-6	3.80E-8	3.95E-6	8.02E-5
NHWD	Kg	1.13E-1	4.59E-2	1.58E-1	2.45E-4	3.64E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.81E-2	4.19E-2	1.00E-1	1.27E-1	6.40E-1
RWD	Kg	5.29E-5	4.75E-6	6.43E-5	2.54E-8	7.92E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.87E-6	6.23E-6	1.49E-7	5.61E-5	1.94E-4

HWD=hazardous waste disposed | **NHWD**=non hazardous waste disposed | **RWD**=radioactive waste disposed

ENVIRONMENTAL INFORMATION DESCRIBING OUTPUT FLOWS

Abbreviation	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
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	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	2.00E-3	0.00E+0	6.97E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.99E-2	0.00E+0	0.00E+0	7.49E-1
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	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0
EE	MJ	0.00E+0	0.00E+0	2.75E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.15E+1	1.18E+1
EET	MJ	0.00E+0	0.00E+0	1.74E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.27E+0	7.44E+0
EEE	MJ	0.00E+0	0.00E+0	1.01E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.22E+0	4.32E+0

CRU=Components for re-use | **MFR**=Materials for recycling | **MER**=Materials for energy recovery | **EE**=Exported energy | **EET**=Exported Energy Thermic | **EEE**=Exported Energy Electric

3 Results

3.3 INFORMATION ON BIOGENIC CARBON CONTENT PER SQUARE METER

BIOGENIC CARBON CONTENT

The following Information describes the biogenic carbon content in (the main parts of) the product at the factory gate per square meter:

Biogenic carbon content	Amount	Unit
Biogenic carbon content in the product	0	kg C
Biogenic carbon content in accompanying packaging	0	kg C

3 Results

3.4 ENVIRONMENTAL COST INDICATOR I/I PER SQUARE METER

Using the environmental cost indicator (ECI) method, which is presented in the NMD Determination Method (2020), the results are aggregated to the single-point score. The ECI is a relevant valuation method, especially in the Dutch construction sector. In the Netherlands, it is a prerequisite for public tenders. The aim of the indicator is to show the shadow price for environmental impacts of a product or project. The application of single-point scores is an additional assessment tool for eco-balance results. However, it must be pointed out that weightings are always based on a value maintenance and not on a scientific basis (EN 14040). The ECI results are shown in the following table.

Module EN15804	ECI I/I	Share in total (%)
A1 Raw Materials Supply	€ 0.13	26,6 %
A2 Transport	€ 0.00	0,8 %
A3 Manufacturing	€ 0.09	18,6 %
A4 Transport from the gate to the site	€ 0.00	0,0 %
A5 Construction - Installation process	€ 0.02	3,2 %
B1 Use	€ 0.00	0,0 %
B2 Maintenance	€ 0.00	0,0 %
B3 Repair	€ 0.00	0,0 %
C1 De-construction / demolition	€ 0.00	0,0 %
C2 Transport	€ 0.00	0,3 %
C3 Waste processing	€ 0.12	24,6 %
C4 Disposal	€ 0.00	0,1 %
D Benefits and loads beyond the product system boundary	€ 0.12	25,8 %
ECI I/I per functional unit	**€ 0.48**	

4 Contact information

Publisher	Operator	Owner of declaration
Vescom BV Sint Jozefstraat 20 5753 AV Deurne, NL	**Vescom BV** Sint Jozefstraat 20 5753 AV Deurne, NL	**Vescom BV** Sint Jozefstraat 20 5753 AV Deurne, NL
E-mail: info@vescom.com **Website:** www.vescom.com	**E-mail:** info@vescom.com **Website:** www.vescom.com	**E-mail:** info@vescom.com **Website:** www.vescom.com