

ENVIRONMENTAL PRODUCT DECLARATION

According to ISO 14025 and EN 15804

kvadrat shade

SILVRETTA

COMPANY INFORMATION / DECLARATION OWNER

Manufacturer: Kvadrat Shade
Production Location: Verosol Fabrics bv
Address: Kieftte 17
7151HZ Eibergen
E-mail: contact@kvadratshade.com
Website: www.kvadratshade.com

EPD INFORMATION

Calculation number: EPD-NIBE-20201222-15662
Date of issue: 30-12-2020
End of validity: 30-12-2025
Version NIBE's EPD Application: v2.0
Version database: v2.95 (2020-12-03)
PCR: EN15804:2012+A1

VERIFICATION OF THE DECLARATION

CEN standard EN 15804:2012 serves as the core PCR
Independent verification of the declaration. according to EN ISO 14025:2010. Internal External

Verklaring van de toetsers, MSc P.F. Stadhouders, 30-12-2020:

"De methodologie en dataverzameling zoals beschreven in dit rapport voldoet aan de eisen van de "Bepalingsmethode Milieuprestatie Gebouwen en GWW-werken" versie 3.0 van november 2019 en de onderliggende normen ISO 14040, ISO 14044 en NEN-EN 15804."

Third party verifier: Msc. P.F. Stadhouders, EcoReview V.O.F.

DECLARED UNIT

m2 fabric

m2 of canvass for roller blinds applied to the inside of a window. The fabric has a life time of 15 years. In compliance with the Horizontal PCR INSIDE/INSIDE, A4 is considered 1km.

SCOPE OF DECLARATION

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	MND	MND	MND	MND	X	X	X	X	X

(X = included, MND = module not declared)

PRODUCT DESCRIPTION

The Silvretta shade is a roller blind textile. The aim of the textile is to enhance light, acoustic or thermal comfort. The product is made out of polyester that has been treated with several finishes.

The blind has a glare control rating of 2. It has 7% visual light transmission, 62% solar reflection, 3% openness factor, and a U-value of 1.1. Furthermore, the product complies with flame retardant standards: EN 13501-1 B-s1, d0, DIN 4102 B1, NFPA 701, BS 5867 part 2 type B, EN 13773 Class 1, AS/NZS 1530.3 (0-0-0-2).

The system has a width of 280 cm, thickness of 0,44 mm, weighs 250 g/m2, and has a estimated reference service life of 15 years.

DESCRIPTION OF THE MANUFACTURING PROCESS

Blank canvasses made of 100% polyester are purchased ready for production. The canvasses are treated with dyes and finishings.

The canvas is metalized with an aluminium coating.

Flame retardant finishes are applied to the canvass.

The textile is then cut in the right size.

The emissions that occur during the production process are related to the burning of gas.

After the canvasses are treated they are packaged and transported to the location where the system will be assembled.

Verosol fabrics uses 100% sustainable electricity produced by windturbines in Europe.

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RESULTS

Impact category	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ADPE	Kg Sb	3.31E-6	2.45E-7	7.15E-7	1.20E-10	2.29E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.30E-8	1.49E-7	3.53E-10	-3.20E-8	4.63E-6
ADPF	MJ	2.27E+1	1.34E+0	6.15E+0	6.59E-4	1.59E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.12E-2	4.98E-1	6.90E-3	-	2.62E+1
AP	Kg SO2 Equiv.	4.21E-3	3.72E-4	8.30E-4	1.83E-7	3.05E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.98E-5	2.05E-4	1.85E-6	-2.74E-4	5.67E-3
ODP	Kg CFC-11 Equiv.	5.40E-8	1.61E-8	3.66E-8	7.90E-12	6.90E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	8.54E-10	1.75E-8	7.26E-11	-3.43E-8	9.78E-8
GWP	Kg CO2 Equiv.	1.05E+0	8.60E-2	3.78E-1	4.23E-5	1.14E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.57E-3	5.69E-1	3.20E-3	-3.16E-1	1.88E+0
EP	Kg PO43- Equiv.	6.52E-4	7.51E-5	1.73E-4	3.70E-8	5.26E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.99E-6	3.63E-5	7.30E-7	-3.44E-5	9.60E-4
POCP	Kg Ethene Equiv.	1.26E-3	5.10E-5	1.70E-4	2.51E-8	7.94E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.71E-6	2.00E-5	7.36E-7	-6.71E-5	1.52E-3
Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
PERE	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
PERM	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
PERT	MJ	8.04E-1	1.41E-2	2.23E+0	6.93E-6	1.56E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.48E-4	4.23E-2	1.14E-4	-5.31E-2	3.19E+0
PENRE	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
PENRM	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
PENRT	MJ	2.31E+1	1.43E+0	6.33E+0	7.03E-4	1.63E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.59E-2	4.83E-1	7.32E-3	-	2.69E+1
SM	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
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	1.10E-2	2.28E-4	1.96E-3	1.12E-7	7.47E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.21E-5	8.19E-4	6.87E-6	-4.04E-4	1.44E-2
HWD	Kg	1.26E-3	8.54E-7	9.59E-5	4.20E-10	6.82E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.54E-8	1.09E-6	5.36E-9	-6.46E-6	1.42E-3
NHWD	Kg	9.76E-2	8.18E-2	2.97E-2	4.02E-5	2.20E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.35E-3	1.02E-2	2.53E-2	-2.53E-3	2.68E-1
RWD	Kg	3.22E-5	9.04E-6	1.00E-5	4.45E-9	2.88E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.81E-7	1.68E-6	4.15E-8	-2.49E-6	5.39E-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	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	8.83E-4	0.00E+0	4.55E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.26E-2	0.00E+0	0.00E+0	1.80E-2
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	2.30E-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	3.49E+0	3.72E+0
EET	MJ	0.00E+0	0.00E+0	1.45E-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	2.21E+0	2.36E+0
EEE	MJ	0.00E+0	0.00E+0	8.43E-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	0.00E+0	1.28E+0	1.37E+0
SP	s€	s€ 0,08	s€ 0,01	s€ 0,02	s€ 0,00	s€ 0,01	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,03	s€ 0,00	s€ -0,02	s€ 0,13

Impact categories: 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

Parameters: 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 | 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 | EE=Exported energy | EET=Exported Energy Thermic | EEE=Exported Energy Electric

ADDITIONAL INFORMATION

Allocation

There is no allocation applied for the environmental profiles / datasets used in this LCA.