

Result summary

# Verosol Screen 833

Verosol

Calculation number: EPD-NIBE-20201012-7759  
Generation on: 29-04-2021  
Issue date: 29-04-2021  
Valid until: 29-04-2026

Status: verified

R<THiNK

# 1 Verosol Screen 833

## 1.1 COMPANY INFORMATION / DECLARATION OWNER

**Manufacturer:** Verosol

**Production Location:** Verosol Fabrics bv

**Address:** Kieft 17, 7151HZEibergen

**E-mail:** info@verosol.com

**Website:** www.verosol.com

## 1.2 EPD INFORMATION

**Calculation number:** EPD-NIBE-20210311-18014

**Date of issue:** 29-04-2021

**End of validity:** 29-04-2026

**Version NIBE's EPD Application:** v2.0

**Version database:** v3.03 (2021-03-26)

**PCR:** EN 15804:2012+A1:2013

## 1.3 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, 16-12-2020 december 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.

## 1.4 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.

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## 1.5 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)

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## 1.6 PRODUCT DESCRIPTION

Verosol Screen 833 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 3. It has 4% visual light transmission, 74% 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, BS 5867 Part 2 Type B, NFPA 701.

The system has a width of 240 cm, thickness of 0,41 mm, weighs 210 g/m<sup>2</sup>, and has a estimated reference service life of 15 years.

## 1.7 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 first step of the process is the washing of the blank canvasses. The canvas passes through the bath on rollers, continuously moving through the bath.

The canvas is then dried and stabilized on a stenter.

The canvas is then metalized with an aluminium coating.

Flame retardant finishes are applied to the canvas.

The canvas is passed through a calander to apply the colour over transferprinting.

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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## 1.8 RESULTS

Environmental effects	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
ADPE	Kg Sb	2.79E-6	1.32E-8	8.69E-7	1.06E-10	1.97E-7	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.10E-8	1.21E-7	2.85E-10	-2.70E-8	3.97E-6
ADPF	MJ	1.90E+1	7.14E-2	1.08E+1	5.72E-4	1.57E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	5.94E-2	3.14E-1	5.40E-3	-4.68E+0	2.72E+1
AP	Kg SO2 Equiv.	3.54E-3	2.01E-5	1.07E-3	1.61E-7	2.64E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.67E-5	1.67E-4	1.50E-6	-2.29E-4	4.84E-3
ODP	Kg CFC-11 Equiv.	4.55E-8	8.65E-10	7.78E-8	6.93E-12	7.58E-9	0.00E+0	0.00E+0	0.00E+0	0.00E+0	7.20E-10	1.42E-8	5.86E-11	-2.88E-8	1.18E-7
GWP	Kg CO2 Equiv.	8.80E-1	4.63E-3	7.06E-1	3.71E-5	1.13E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.86E-3	4.79E-1	2.58E-3	-2.65E-1	1.92E+0
EP	Kg PO43- Equiv.	5.49E-4	4.05E-6	2.62E-4	3.24E-8	4.79E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.37E-6	2.99E-5	5.89E-7	-2.88E-5	8.67E-4
POCP	Kg Ethene Equiv.	1.06E-3	2.75E-6	2.08E-4	2.20E-8	6.85E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	2.29E-6	1.62E-5	5.94E-7	-5.57E-5	1.30E-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

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Parameter	Unit	A1	A2	A3	A4	A5	B1	B2	B3	C1	C2	C3	C4	D	Total
PERE	MJ	4.71E-3	7.58E-4	2.21E+0	6.07E-6	1.14E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.31E-4	3.42E-2	9.19E-5	-4.90E-2	2.32E+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	-5.24E-2	-5.24E-2
PERT	MJ	6.81E-1	7.58E-4	2.26E+0	6.07E-6	1.50E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.31E-4	3.42E-2	9.19E-5	-4.90E-2	3.08E+0
PENRE	MJ	3.57E-2	7.69E-2	1.08E+1	6.16E-4	6.23E-1	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.40E-2	3.92E-1	5.90E-3	-5.23E+0	6.76E+0
PENRM	MJ	0.00E+0	0.00E+0	7.27E-2	0.00E+0	4.51E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	-2.68E-1	-1.91E-1
PENRT	MJ	1.94E+1	7.69E-2	1.22E+1	6.16E-4	1.67E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	6.40E-2	3.92E-1	5.90E-3	-5.23E+0	2.87E+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	9.26E-3	1.37E-5	2.52E-3	1.09E-7	6.71E-4	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.14E-5	6.88E-4	5.69E-6	-3.45E-4	1.28E-2
HWD	Kg	1.06E-3	4.60E-8	8.96E-5	3.69E-10	5.78E-5	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.83E-8	2.21E-6	4.33E-9	-5.44E-6	1.21E-3
NHWD	Kg	8.21E-2	4.41E-3	3.00E-2	3.53E-5	1.70E-2	0.00E+0	0.00E+0	0.00E+0	0.00E+0	3.67E-3	8.55E-3	2.04E-2	-2.13E-3	1.64E-1
RWD	Kg	2.71E-5	4.87E-7	1.32E-5	3.90E-9	2.34E-6	0.00E+0	0.00E+0	0.00E+0	0.00E+0	4.05E-7	1.36E-6	3.35E-8	-2.10E-6	4.28E-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	7.12E-4	0.00E+0	4.42E-3	0.00E+0	0.00E+0	0.00E+0	0.00E+0	0.00E+0	1.02E-2	0.00E+0	0.00E+0	1.53E-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	1.93E-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	2.94E+0	3.13E+0
EET	MJ	0.00E+0	0.00E+0	1.22E-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	1.86E+0	1.98E+0
EEE	MJ	0.00E+0	0.00E+0	7.08E-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	0.00E+0	1.08E+0	1.15E+0
SP	s€	s€ 0,07	s€ 0,00	s€ 0,04	s€ 0,00	s€ 0,01	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,00	s€ 0,02	s€ 0,00	s€ -0,01	s€ 0,13

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

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## 1.9 ADDITIONAL INFORMATION

### *Allocation*

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