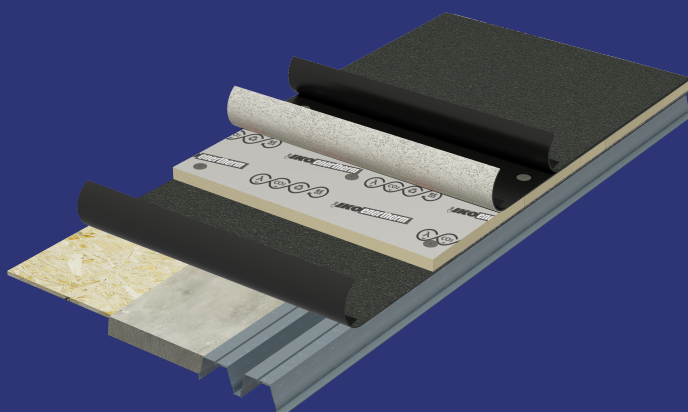


**Environmental
Product
Declaration**
ISO14025+EN15804+A2

This declaration is for:
IKO base PF3500 Quadra Grip
Provided by:
IKO N.V.



MRPI® registration:
00064.2026.1.0
Program operator:
Stichting MRPI
Publisher:
Stichting MRPI
www.mrpi.nl

Date of first issue:
27-07-2026
Date of this issue:
27-07-2026
Expiry date:
27-07-2031



COMPANY INFORMATION

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MRPI® REGISTRATION

00064.2026.1.0

DATE OF THIS ISSUE

27-07-2026

EXPIRY DATE

27-07-2031

SCOPE OF DECLARATION

This MRPI®-EPD certificate is verified by Vroege, Gert-Jan, Eco-Intelligence. The LCA study has been done by Simons, Steven, SGS Intron B.V.. The certificate is based on a LCA-dossier According to ISO14025+EN15804+A2. It is verified according to the 'Verification protocol for MRPI LCA project report & EPD 21th of May 2025, V. 5.2'. EPDs of construction products may not be comparable if they do not comply with EN15804+A2.

PROGRAM OPERATOR

Stichting MRPI
Kingsfordweg 151
1043 GR
Amsterdam

PRODUCT

IKO base PF3500 Quadra Grip

DECLARED AND FUNCTIONAL UNIT

Area (m2), Grammage (Kg/m2): 4.9, Layer thickness (m): 0.003, Mass: 4.9

DESCRIPTION OF PRODUCT

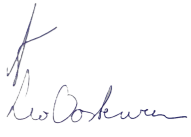
IKO base PF3500 Quadra Grip is a part of a roofing membrane system and placed on a roof as a protective layer to make the roof waterproof and protect the roof from various elements.

VISUAL PRODUCT



MORE INFORMATION

<https://eu.iko.com/daksystemen/>

Ing. L. L. Oosterveen MSc. MBA Managing Director MRPI	Demonstration of verification
	CEN standard EN15804 serves as the core PCR [1]
	Independent verification of the declaration and data ISO14025+EN15804+A2 Internal: External: X
	Independent verifier: Vroege, Gert-Jan, Eco-Intelligence. Certified NMD verifier.
	
	[1] PCR = Product Category Rules





DETAILED PRODUCT DESCRIPTION

Product: IKO base PF3500 Quadra Grip is a part of a roofing membrane system and placed on a roof as a protective layer to make the roof waterproof and protect the roof from various elements.

Production (A1-A3): Bituminous waterproofing membranes are produced by a continuous process. Raw materials (bitumen and polymers) are mixed separately at a specific range of temperature and successively reinforced with polyester fleece or glass mat (glass mat, glass grid, glass fabric) by impregnation. After calendaring and cooling, the membrane can be finished for practicality and aesthetic reasons by means of different alternative materials, such as polypropylene films, (colored) slates, etc. Membranes are installed on many different type of building roofs as waterproofing, either, as a single or multilayer, depending on the type of selected product.

Reference service life: 50 years

Component (> 1%)	(kg / %)
Coating	Confidential
Bitumen	Confidential
Polyester resin	Confidential
Sand	Confidential

Biogenic carbon content	Unit	Amount of uptake per functional unit
Biogenic carbon content in product	Kg C	0.00E+00
Biogenic carbon content in accompanying packaging	Kg C	1,55E-02
Note that 1 kg of biogenic carbon is equivalent to 44 / 12 kg of CO2.		

SCOPE AND TYPE

The life cycle assessment underlying this EPD was conducted using the background database(s) Ecoinvent 3.9.1
Method: Cut-off, EN 15804+A2
and LCA software Simapro 10.2.
Version characterization factors: Environmental Footprint (EF) 3.1

The LCA for the IKO base PF3500 Quadra Grip includes the entire life cycle. All major steps from the extraction of raw materials to the end-of-life of the product are included in the scope of the study. This EPD is for IKO base PF3500 Quadra Grip, part of a roofing membrane. The roofing membrane is produced by IKO n.v.. The main production location is Antwerpen Belgium. The end-of-life scenario for the roofing membrane is according to NBN EN 17388-1:2024 Flexible sheets for waterproofing - Environmental product declarations - Product category rules for reinforced bitumen. The 100% scenario's of recycling, incineration and landfill have been calculated. The LCA is produced with SimaPro v10.2 software and background database is Ecoinvent 3.9.1.



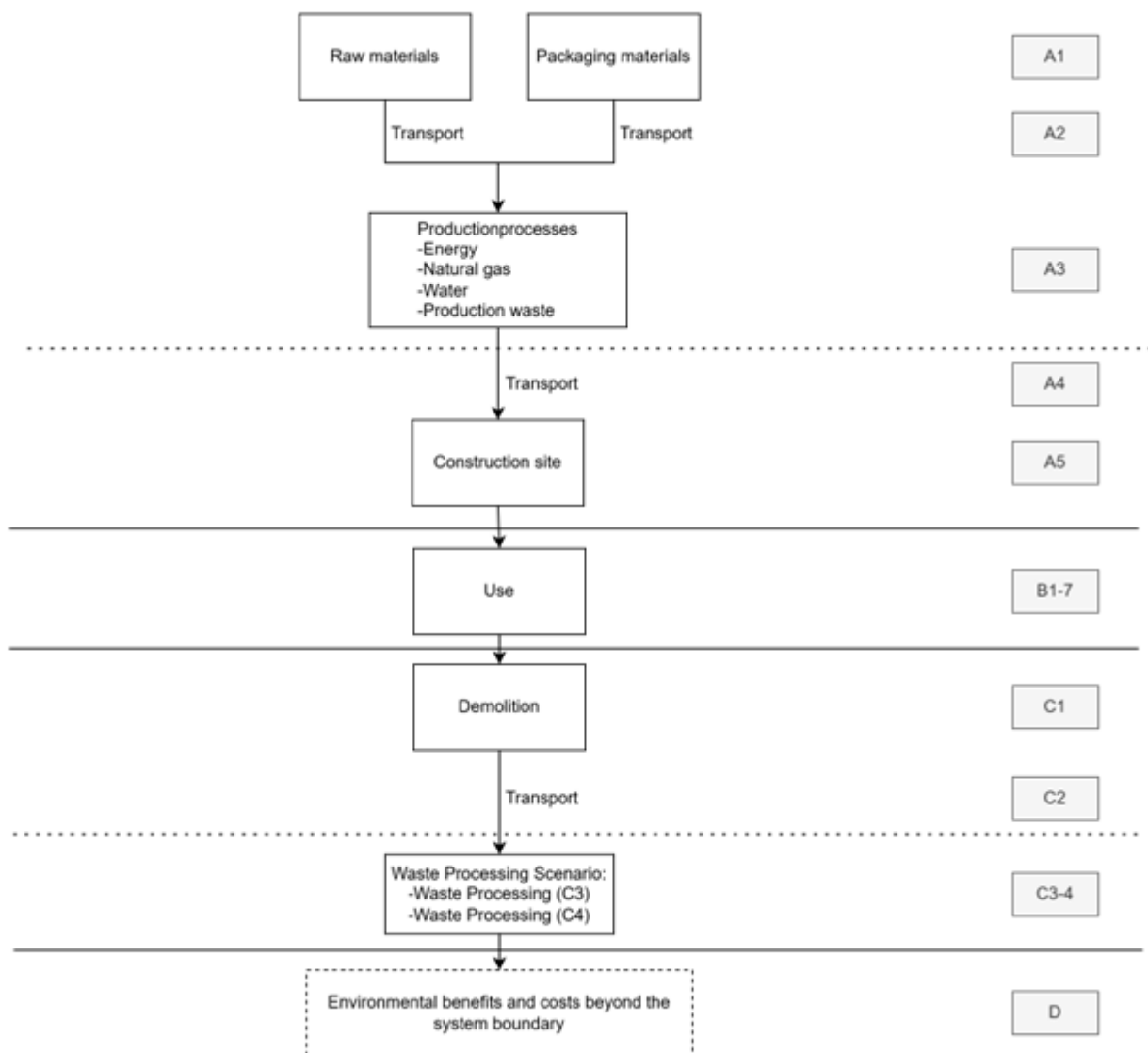


PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE							END OF LIFE STAGE				BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport gate to site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction 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	x	x	x	x	x	ND	ND	x	x	x	x	x

X
ND

= Modules Assesed
= Not Declared







ENVIRONMENTAL IMPACT PER FUNCTIONAL UNIT OR DECLARED UNIT (CORE INDICATORS A2)

Unit		A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-total	kg CO2 eq	2.79E+00	1.26E-01	3.61E-01	3.28E+00	9.73E-02	2.85E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	9.45E-02	2.18E+00	0.00E+00	-1.46E+00
GWP-fossil	kg CO2 eq	2.82E+00	1.26E-01	3.60E-01	3.30E+00	9.71E-02	2.26E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	9.43E-02	2.18E+00	0.00E+00	-1.45E+00
GWP-biogenic	kg CO2 eq	-3.12E-02	4.06E-05	2.85E-04	-3.08E-02	2.56E-05	5.90E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	2.49E-05	2.61E-03	0.00E+00	-5.30E-04
GWP-luluc	kg CO2 eq	2.28E-03	4.39E-04	6.23E-05	2.78E-03	2.15E-04	1.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	2.09E-04	1.34E-03	0.00E+00	-4.34E-04
ODP (A2)	kg CFC11 eq	1.83E-07	2.23E-09	1.63E-08	2.02E-07	1.60E-09	8.49E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	1.56E-09	3.40E-08	0.00E+00	-1.13E-07
AP mol H+	mol H+ eq	1.38E-02	6.88E-04	5.55E-04	1.51E-02	1.64E-03	7.85E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	1.59E-03	6.37E-03	0.00E+00	-6.63E-03
EP-freshwater	kg P eq	7.17E-05	1.23E-06	2.35E-06	7.53E-05	6.85E-07	3.79E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	6.65E-07	3.85E-05	0.00E+00	-1.10E-05
EP-marine	kg N eq	2.74E-03	2.48E-04	1.33E-04	3.13E-03	4.40E-04	1.89E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	4.28E-04	1.69E-03	0.00E+00	-1.32E-03
EP-terrestrial	mol N eq	2.85E-02	2.66E-03	1.51E-03	3.26E-02	4.84E-03	2.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	4.70E-03	1.85E-02	0.00E+00	-1.20E-02
POCP kg NMVOC	kg NMVOC eq	2.40E-02	8.88E-04	7.26E-04	2.56E-02	1.38E-03	1.15E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	1.34E-03	6.77E-03	0.00E+00	-1.44E-02
ADP-minerals & metals	kg Sb eq	1.37E-05	3.87E-07	1.66E-06	1.57E-05	2.03E-07	9.82E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	1.97E-07	1.38E-05	0.00E+00	-2.12E-06
ADP-fossil	MJ, net calorific value	1.30E+02	1.80E+00	7.72E+00	1.39E+02	1.29E+00	5.77E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	1.26E+00	3.49E+01	0.00E+00	-8.39E+01
WDP	m3 world eq. Deprived	5.66E-01	9.68E-03	7.11E-02	6.47E-01	5.22E-03	3.52E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	5.07E-03	4.02E-01	0.00E+00	-1.39E-01

GWP-total = Global Warming Potential total
GWP-fossil = Global Warming Potential fossil fuels
GWP-biogenic = Global Warming Potential biogenic total
GWP-LULUC = Global Warming Potential land use and land use change
ODP = Depletion potential of the stratospheric ozone layer
AP = Acidification Potential, Accumulated Exceedence
AP-freshwater = Eutrophication Potential, fraction of nutrients reaching freshwater end compartment
EP-marine = Eutrophication Potential, fraction of nutrients reaching marine end compartment
EP-terrestrial = Eutrophication Potential, Accumulated Exceedence
POCP = Formation potential of tropospheric ozone photochemical oxidants
ADP-minerals & metals = Abiotic Depletion Potential for non-fossil resources [1]
ADP-fossil = Abiotic Depletion for fossil resources potential [1]
WDP = Water (user) deprivation potential, deprivation-weighted water consumption [1]

Disclaimer [1]:

- 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.





ENVIRONMENTAL IMPACT PER FUNCTIONAL UNIT OR DECLARED UNIT (ADDITIONAL INDICATORS A2)

Unit		A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PM	Disease incidence	1.22E-07	1.22E-08	3.44E-09	1.38E-07	6.33E-09	8.90E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	6.15E-09	1.11E-07	0.00E+00	-4.86E-08
IRP	kBq U235 eq	4.85E-02	6.94E-04	4.22E-02	9.14E-02	4.00E-04	9.50E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	3.89E-04	2.17E-01	0.00E+00	-1.06E-02
ETP-fw	CTUe	6.14E+01	1.32E00	5.33E-01	6.33E+01	8.14E-01	2.55E+00	8.68E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	7.91E-01	8.80E+00	0.00E+00	-3.88E+01
HTP-c	CTUh	1.41E-09	6.64E-11	9.47E-11	1.58E-09	4.69E-11	1.32E-10	1.00E-13	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	4.55E-11	2.04E-09	0.00E+00	-5.41E-10
HTP-nc	CTUh	2.63E-08	1.42E-09	2.20E-09	2.99E-08	7.43E-10	1.97E-09	4.04E-10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	7.22E-10	2.45E-08	0.00E+00	-1.05E-08
SQP	-	1.33E+01	1.39E00	8.28E-01	1.55E+01	6.10E-01	1.02E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	5.92E-01	1.66E+01	0.00E+00	-4.64E+00

- PM = Potential Comparative Toxic Unit for humans, non-cancer [2]
 IRP = Potential incidence of disease due to PM emissions
 ETP-fw = Potential Human exposure efficiency relative to U235 [1]
 HTP-c = Potential Comparative Toxic Unit for ecosystems [2]
 HTP-nc = Potential Comparative Toxic Unit for humans, cancer [2]
 SQP = Potential soil quality index [2]

Disclaimer [1]:

- 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 nor due to radioactive waste.

Disclaimer [2]:

- 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.





OUTPUT FLOWS AND WASTE CATEGORIES PER FUNCTIONAL OR DECLARED UNIT (A1 AND A2)

Unit		A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
HWD	kg	1.30E-03	1.14E-05	2.48E-05	1.34E-03	7.43E-06	4.54E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	7.22E-06	9.53E-05	0.00E+00	-3.78E-04
NHWD	kg	3.49E-01	1.16E-01	8.22E-02	5.47E-01	4.90E-02	4.93E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	4.76E-02	9.53E-01	0.00E+00	-6.13E-02
RWD	kg	3.24E-05	4.06E-07	3.43E-05	6.71E-05	2.27E-07	7.43E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	2.21E-07	1.75E-04	0.00E+00	-4.70E-06
CRU	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	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MFR	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	0.00E+00	4.90E+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	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EEE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.58E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
ETE	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.72E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

- HWD

NHWD

RWD

CRU

MFR

MER

EEE

ETE
- = Hazardous Waste Disposed

= Non Hazardous Waste Disposed

= Radioactive Waste Disposed

= Components for reuse

= Materials for recycling

= Materials for energy recovery

= Exported Electrical Energy

= Exported Thermal Energy





RESOURCE USE PER FUNCTIONAL OR DECLARED UNIT (A1 AND A2)

Unit		A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	2.21E+00	2.51E-02	3.00E-01	2.54E+00	1.42E-02	1.52E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	1.38E-02	2.21E+00	0.00E+00	-2.19E-01
PERM	MJ	6.21E-01	0.00E+00	0.00E+00	6.21E-01	0.00E+00	1.86E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PERT	MJ	2.84E+00	2.51E-02	3.00E-01	3.16E+00	1.42E-02	1.71E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	1.38E-02	2.21E+00	0.00E+00	-2.19E-01
PENRE	MJ	1.30E+02	1.80E+00	7.72E+00	1.39E+02	1.29E+00	5.77E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	1.26E+00	3.49E+01	0.00E+00	-8.39E+01
PENRM	MJ	2.60E-01	0.00E+00	0.00E+00	2.60E-01	0.00E+00	7.80E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
PENRT	MJ	1.30E+02	1.80E+00	7.72E+00	1.40E+02	1.29E+00	5.78E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	1.26E+00	3.49E+01	0.00E+00	-8.39E+01
SM	kg	7.27E-01	0.00E+00	0.00E+00	7.27E-01	0.00E+00	2.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NSRF	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	m3	1.76E-02	4.28E-04	1.74E-03	1.98E-02	2.20E-04	1.05E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	ND	ND	0.00E+00	2.14E-04	1.10E-02	0.00E+00	-5.16E-03

- PERE = Use of renewable primary energy excluding renewable primary energy 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 resources excluding non-renewable 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 materials
- RSF = Use of renewable secondary fuels
- NSRF = Use of non-renewable secondary fuels
- FW = Use of net fresh water





CALCULATION RULES

Data quality requirements follow EN15804+A2:2019. Data is of reference period 2023, representing data for the production of one m2 IKO base PF3500 Quadra Grip. Processes used in the background modelling are referring to Ecoinvent 3.9.1 (December 15, 2022). Characterization factor: Environmental Footprint 3.1. The technological and geographical coverage reflects the physical reality as far as possible. Data quality is assessed as good on average and adequate to the goal and scope of the study. Cut-off criteria and allocation procedures: The only materials excluded from the calculation were wood packaging that is reused several times. No other cut-offs or allocation procedures were intentionally applied to inputs and outputs within the system boundaries in the models.

DATA QUALITY REPRESENTATIVENESS

Representativeness	Quality level	Remarks
Geographical Representativeness	Very good	The location of the process has a direct relation to the desired area.
Technical Representativeness	Very good	Data from a specific company, process and product of study.
Time Representativeness	Good	2-5 year difference between the year of data collection and the current year.

POWER MIX

The energy processes used in the calculation are listed in the table below. The process used for the energy in Belgium was: Electricity, low voltage {BE}| electricity, low voltage, residual mix | Cut-off, U. This is a market based approach.

Global warming potential of 1 kWh energy	Process	kg CO2eq
Production energy: Belgium	Electricity, low voltage {BE} electricity, low voltage, residual mix Cut-off, U	0.203





SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION

The product stage, A1-A3, includes the extraction and processing of raw materials for the product and the packaging, their transportation to the production site by truck and ship. Electricity consumption is modelled using primary data on the amount and a dataset for normal belgium grid mix.

The installation stage (A4-A5) includes transport of the roofing membrane to the installation site, and the materials and energy required to install the roofing membrane, also including treatment of waste from installation materials and packaging excluding wood that was reused several times.

The use phase (B) includes the leaching.

The end-of-life stage (C) is 100% recycling or incineration or landfill. Default waste transport distance is 50 km for waste processing, an additional 50 km for landfill waste and 100 km for incineration.

The tables below show the results of 100% incineration and landfill.

100% Incineration	Unit	C2	C3	C4	D
GWP-total	kg CO2 eq	1,10E-01	1,14E+01	0,00E+00	-5,83E+00
GWP-fossil	kg CO2 eq	1,09E-01	1,14E+01	0,00E+00	-5,83E+00
GWP-biogenic	kg CO2 eq	3,56E-05	2,03E-04	0,00E+00	-5,42E-04
GWP-luluc	kg CO2 eq	3,89E-04	1,31E-04	0,00E+00	-4,09E-04
ODP_A2	kg CFC11 eq	1,94E-09	3,56E-08	0,00E+00	-3,08E-07
AP_A2	mol H+ eq	5,23E-04	2,97E-03	0,00E+00	-3,82E-03
EP-freshwater	kg P eq	1,09E-06	4,60E-06	0,00E+00	-1,06E-05
EP-marine	kg N eq	1,99E-04	1,00E-03	0,00E+00	-1,45E-03
EP-terrestrial	mol N eq	2,12E-03	1,11E-02	0,00E+00	-1,59E-02
POCP_A2	kg NMVOC eq	7,23E-04	3,01E-03	0,00E+00	-8,66E-03
ADP-minerals&metals	kg Sb eq	3,42E-07	6,78E-07	0,00E+00	-1,42E-06
ADP-fossil	MJ	1,56E+00	1,64E+00	0,00E+00	-9,03E+01
WDP	m3 depriv.	8,54E-03	6,95E-02	0,00E+00	-4,47E-01
PM	disease inc.	1,08E-08	2,22E-08	0,00E+00	-1,92E-08
IRP	kBq U-235 eq	6,10E-04	3,93E-03	0,00E+00	-8,21E-03
ETP-fw	CTUe	1,15E+00	1,67E+00	0,00E+00	-2,45E+00
HTP-c	CTUh	5,78E-11	1,58E-09	0,00E+00	-6,84E-10
HTP-nc	CTUh	1,26E-09	6,76E-09	0,00E+00	-6,02E-09
SQP	Pt	1,23E+00	1,04E+00	0,00E+00	-9,98E-01
PERE	MJ	2,21E-02	1,36E-01	0,00E+00	-3,32E-01
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	2,21E-02	1,36E-01	0,00E+00	-3,32E-01
PENRE	MJ	1,57E+00	1,64E+00	0,00E+00	-9,03E+01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	1,57E+00	1,64E+00	0,00E+00	-9,03E+01
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m3	3,78E-04	4,24E-03	0,00E+00	-6,88E-03
HWD	kg	9,97E-06	6,78E-06	0,00E+00	-3,86E-04
NHWD	kg	1,03E-01	2,84E-01	0,00E+00	-1,02E-01
RWD	kg	3,58E-07	2,67E-06	0,00E+00	-5,78E-06
CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	kg	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
EEE	MJ	0,00E+00	2,34E+01	0,00E+00	0,00E+00





ETE	MJ	0,00E+00	4,03E+01	0,00E+00	0,00E+00
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100% Landfill	Unit	C2	C3	C4	D
GWP-total	kg CO2 eq	7,31E-02	0,00E+00	6,31E-01	-3,80E-02
GWP-fossil	kg CO2 eq	7,28E-02	0,00E+00	6,31E-01	-3,80E-02
GWP-biogenic	kg CO2 eq	2,37E-05	0,00E+00	1,70E-04	-3,53E-06
GWP-luluc	kg CO2 eq	2,59E-04	0,00E+00	4,51E-05	-2,67E-06
ODP_A2	kg CFC11 eq	1,30E-09	0,00E+00	1,38E-09	-2,01E-09
AP_A2	mol H+ eq	3,48E-04	0,00E+00	7,58E-04	-2,49E-05
EP-freshwater	kg P eq	7,24E-07	0,00E+00	9,63E-07	-6,92E-08
EP-marine	kg N eq	1,32E-04	0,00E+00	6,31E-04	-9,46E-06
EP-terrestrial	mol N eq	1,41E-03	0,00E+00	1,68E-03	-1,04E-04
POCP_A2	kg NMVOC eq	4,82E-04	0,00E+00	7,42E-04	-5,64E-05
ADP-minerals&metals	kg Sb eq	2,28E-07	0,00E+00	1,32E-07	-9,25E-09
ADP-fossil	MJ	1,04E+00	0,00E+00	1,27E+00	-5,89E-01
WDP	m3 depriv.	5,69E-03	0,00E+00	5,30E-02	-2,91E-03
PM	disease inc.	7,19E-09	0,00E+00	9,07E-09	-1,25E-10
IRP	kBq U-235 eq	4,07E-04	0,00E+00	9,11E-04	-5,35E-05
ETP-fw	CTUe	7,69E-01	0,00E+00	1,30E+00	-1,59E-02
HTP-c	CTUh	3,85E-11	0,00E+00	3,52E-11	-4,40E-12
HTP-nc	CTUh	8,37E-10	0,00E+00	1,15E-09	-3,92E-11
SQP	Pt	8,23E-01	0,00E+00	2,85E+00	-6,50E-03
PERE	MJ	1,47E-02	0,00E+00	2,80E-02	-2,16E-03
PERM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PERT	MJ	1,47E-02	0,00E+00	2,80E-02	-2,16E-03
PENRE	MJ	1,04E+00	0,00E+00	1,27E+00	-5,89E-01
PENRM	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
PENRT	MJ	1,04E+00	0,00E+00	1,27E+00	-5,89E-01
SM	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
RSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
NRSF	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
FW	m3	2,52E-04	0,00E+00	1,31E-03	-4,48E-05
HWD	kg	6,65E-06	0,00E+00	6,25E-06	-2,52E-06
NHWD	kg	6,89E-02	0,00E+00	4,92E+00	-6,64E-04
RWD	kg	2,39E-07	0,00E+00	6,10E-07	-3,77E-08
CRU	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00
MFR	kg	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
EEE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00
ETE	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00

DECLARATION OF SVHC

No substances that are listed in the latest "Candidate List of Substances of Very High Concern for authorisation" are included in the product that exceed the limit for registration.

REFERENCES

EN 15804:2012+A2:2019, Sustainability of construction works - Environmental product declarations - Core rules for the product category of construction products, 2019.

ISO, ISO 14025:2006 Environmental labels and declarations — Type III environmental declarations — Principles and procedures, 2006.





NBN EN 17388-1:2024 Flexible sheets for waterproofing - Environmental product declarations - Product category rules for reinforced bitumen, 2024.

SGS INTRON report: A170430/R20261127, July 2026

