



Environmental Product

Declaration

According to ISO14025 and EN15804+A2 (+indicators A1)



This declaration is for:

Adfil Strux DC05

Provided by: Adfil N.V.





program operator
Stichting MRPI®
publisher
Stichting MRPI®
www.mrpi.nl

MRPI® registration
1.1.00735.2024
date of first issue
28-1-2025
date of this issue
28-1-2025
expiry date
28-1-2030









COMPANY INFORMATION



Adfil N.V. Industriestraat 39, zone 2 9240 ZELE, BELGIUM Saeid Ghorbani https://adfil.com



PRODUCT

Adfil Strux DC05



DECLARED UNIT/FUNCTIONAL UNIT

1 kc



DESCRIPTION OF PRODUCT

Adfil Strux DC05 is a synthetic macrofiber designed to provide efficient reinforcement for concrete and mortar applications. This fiber is primarily made from high-quality polymers such as polypropylene (PP) and high-density polyethylene (HDPE).



MRPI® REGISTRATION

1.1.00735.2024



DATE OF ISSUE

28-1-2025



EXPIRY DATE

28-1-2030



VISUAL PRODUCT





SCOPE OF DECLARATION

This MRPI®-EPD certificate is verified by Roel van Oosterhout, EcoReview B.V. The LCA study has been done by Anne Kees Jeeninga, Advieslab VOF. The certificate is based on an LCA-dossier according to EN15804+A2 (+indicators A1). It is verified according to the 'MRPI®-EPD verification protocol November 2020.v4.0'. EPD's of construction products may not be comparable if they do not comply with EN15804+A2. Declaration of SVHC that are listed on the 'Candidate list of Substances of Very High Concern for authorisation' when content exceeds the limits for registration with ECHA.



MORE INFORMATION

https://adfil.com/synthetic-macro-fibres



PROGRAM OPERATOR

Stichting MRPI® Kingsfordweg 151 1043 GR Amsterdam





CEN standard EN15804 serves as the core PCR(a)

Independent verification of the declaration an data according

ISO14025 and EN15804+A2 (+indicators A1) internal: external: x

Third party verifier: Anne Kees Jeeninga, Advieslab VOF



[a] PCR = Product Category Rules



Ing. L. L. Oosterveen MSc. MBA Managing Director MRPI









DETAILED PRODUCT DESCRIPTION

Adfil Strux DC05 is a synthetic macrofiber designed to provide efficient reinforcement for concrete and mortar applications. This fiber is primarily made from high-quality polymers such as polypropylene (PP) and high-density polyethylene (HDPE), sourced from various suppliers and recyclers. The production process involves an extrusion technique, where the raw materials are combined, drawn, and cut into precise lengths.

Strux s DC05 ynthetic fibres are designed with dimensions of $32mm \times 1,35mm \times 0,1mm$ (94% macro) + $18mm \times 0,022mm$ diameter (6% micro), featuring a density of 0.914 kg/m³. These fibres are EN 14889-2 certified, ensuring compliance with industry standards for quality and performance.

Strux DC05 is packaged in pre-measured quantities to ensure ease of use on construction sites. It is manufactured at Adfil's production facility in Zele, Belgium, adhering to strict quality control standards to minimize defects and environmental impact.



	Component (> 1%)	(kg / %)
	Polyolefins	0,99717019
Ī		0,00282981



SCOPE AND TYPE

The type of this EPD is Cradle-to-Gate. All major steps from the extraction of natural resources to the factory gate are included in the environmental performance of the manufacturing phase, except those that are not relevant to the environmental performance of the product.

The software SimaPro is used to perform the LCA. The background databases used are:

• Ecoinvent (v3.6) . It is not determined as to how the synthetic fibers are to be processed at the end of life (after 50 years). Therefore, this module is not considered in this LCA study. As new and improved systems for the recycling of building products are developed over time, these can be determined and then applied to a future LCA study.



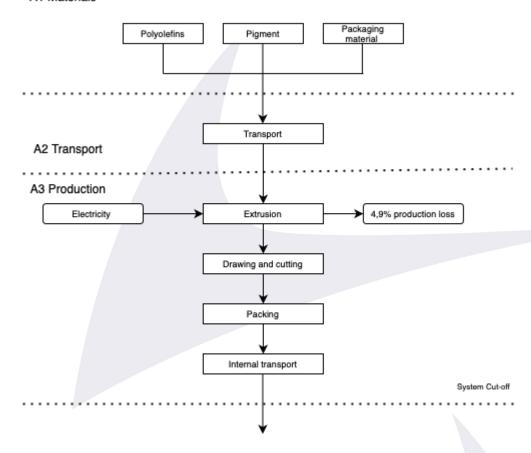
PROD	OUCT ST	TAGE	CONSTR PROC STA	CESS			USE	ER STA	GE			ENC	OF LI	FE ST/	AGE	BENEFITS AND LOADS BEYOND THE SYSTEM BOUNDARIES
Raw material supply	Transport	Manufacturing	Transport gate to site	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse- Recovery – Recycling- potential
A1	A2	А3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	С3	C4	D
Х	Х	X	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	dules As ot Decla															







A1 Materials



REPRESENTATIVENESS

This EPD is representative for products produced and sold in the EU. The synthetic fibers are produced and cut to demand at the production site of Adfil N.V.









ENVIRONMENTAL IMPACT per functional unit or declared unit (core indicators A1)

	Unit	A1	A2	А3	A1- A3	A4	A5	B1	B2	В3	B4	B5	B6	В7	C1	C2	C3	C4	D
ADPE	kg Sb eq.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ADPF	MJ	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GWP	kg CO2 eq.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ODP	Kg CFC11 eq.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POCP	Kg ethene eq.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AP	kg SO2 eq.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EP	kg (PO4) 3- eq.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toxicity in	ndicators fo	or Dutch	market							•	•	•	•	•	•		•	•	
НТР	kg DCB- Eq	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FAETP	kg DCB- Eq	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAETP	kg DCB- Eq	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TETP	kg DCB- Eq	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ECI	euro	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ADPF	kg Sb ea.	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

ADPE = Abiotic Depletion Potential for non-fossil resources

ADPF = Abiotic Depletion Potential for fossil resources

GWP = Global Warming Potential

ODP = Depletion potential of the stratospheric ozone layer

POCP = Formation potential of tropospheric ozone photochemical oxidants

AP = Acidification Potential of land and water

EP = Eutrophication Potential HTP = Human Toxicity Potential

FAETP = Fresh water aquatic ecotoxicity potential
MAETP = Marine aquatic ecotoxicity potential
TETP = Terrestrial ecotoxicity potential
ECI = Environmental Cost Indicator

ADPF = Abiotic Depletion Potential for fossil resources expressed in [kg Sb-eq.]









ENVIRONMENTAL IMPACT per functional unit or declared unit (core indicators A2)

	Unit	A1	A2	А3	A1- A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
GWP-	kg	2,16	5,61	3,99	2,62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
total	CO2 eq.	E+00	E-02	E-01	E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GWP-	kg	2,16	5,60	3,98	2,61	ND	ND	ND	ND	10	2	ND	ND	10	ND	ND	ND	ND	ND
fossil	CO2 eq.	E+00	E-02	E-01	E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GWP-	kg	0,00	0,00	0,00	0,00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
biogenic	CO2 eq.	E+00	E+00	E+00	E+00	ND	UND	ND											
GWP-	kg	2,58	2,05	8,55	3,45	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
luluc)	CO2 eq.	E-03	E-05	E-04	E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	kg	4,36	1,24	6,72	1,23														
ODP	CFC11	E-08	E-08	E-08	E-07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	eq.	7,91	3.25	7,42	8,98														
AP	mol H+ eq.	E-03	5,23 E-04	E-04	E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EP-		4.86	5,65	8,16	5,73														
freshwater	kg PO4 ea.	E-05	5,03 E-07	E-06	E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EP-		1.42	1.15	1,83	1.72														\vdash
marine	kg N eq.	E-03	E-04	E-04	E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
EP-	mol	1,53	1,26	2,31	1,89														\vdash
terrestrial	N eq.	E-02	E-03	E-03	E-02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	kg																		
POCP	NMVOC	6,68	3,60	5,74	7,61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	eq.	E-03	E-04	E-04	E-03														
ADP-	kg	1,83	1,42	5,18	2,49														
minerals & metals	Sb eq.	E-05	E-06	E-06	E-05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
& IIIelais	MJ, net		0.45	4.00	0.06														
ADP-fossil	calorific	7,57	8,45	1,30	8,96	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	value	E+01	E-01	E+01	E+01														
WDD	m3 world	1,55	3,02	4,50	2,00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND.
WDP	eq. Deprived	E+00	'I'I'I ND I	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
		l					l										l	l	

GWP-total = Global Warming Potential total
GWP-fossil = Global Warming Potential fossil fuels
GWP-biogenic = Global Warming Potential biogenic

GWP-luluc = Global Warming Potential land use and land use change
ODP = Depletion potential of the stratospheric ozone layer
AP = Acidification Potential, Accumulated Exceedence

EP-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 [2]
ADP-fossil = Abiotic Depletion for fossil resources potential [2]

WDP = Water (user) deprivation potential, deprivation-weighted water consumption [2]

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.









ENVIRONMENTAL IMPACT per functional unit or declared unit (additional indicators A2)

	Unit	A1	A2	А3	A1- A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	СЗ	C4	D
PM	Disease incidence	6,73 E-08	5,03 E-09	5,20 E-09	7,75 E-08	ND													
IRP	kBq U235 eq.	4,74 E-02	3,54 E-03	1,58 E-01	2,09 E-01	ND													
ETP- fw	CTUe	1,48 E+01	7,54 E-01	4,65 E+00	2,02 E+01	ND													
HTP- c	CTUh	5,26 E-10	2,45 E-11	1,69 E-10	7,20 E-10	ND													
HTP- nc	CTUh	1,56 E-08	8,24 E-10	2,40 E-09	1,88 E-08	ND													
SQP		8,10 E+00	7,33 E-01	8,28 E+00	1,71 E+01	ND													

PM = Potential incidence of disease due to PM emissions
IRP = Potential Human exposure efficiency relative to U235 [1]
ETP-fw = Potential Comparative Toxic Unit for ecosystems [2]
HTP-c = Potential Comparative Toxic Unit for humans [2]

HTP-nc = Potential Comparative Toxic Unit for humans, non-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 unit or declared unit (A1 / A2)

	Unit	A1	A2	А3	A1- A3	A4	A5	B1	B2	В3	B4	B5	В6	В7	C1	C2	C3	C4	D
HWD	ka	9,15	2,14	5,19	1,65	ND	ND	ND	ND										
ПИИ	kg	E-06	E-06	E-06	E-05	טאו	IND	ND	ND	ND	ND	טאו	ND	טאו	ND	ND	ND	ND	טאו
NHWD	ka	7,20	5,36	3,74	1,63	ND	ND	ND	ND										
MINVD	kg	E-02	E-02	E-02	E-01	IND	IND	ND	ND	ND	ND	IND	IND	IND	IND	IND	ND	ND	IND
RWD	kg	8,06	5,55	1,35	2,21	ND	ND	ND	ND										
KWD	kg	E-05	E-06	E-04	E-04	IND	IND	ND	ND	ND	ND	IND	IND	IND	IND	IND	ND	ND	IND
CRU	ka	0,00	0,00	0,00	0,00	ND	ND	ND	ND										
CINO	RU kg	E+00	E+00	E+00	E+00	IND	IND	ND	ND	ND	ND	IND	IND	IND	IND	IND	ND	ND	IND
MFR	kg	0,00	0,00	0,00	0,00	ND	ND	ND	ND										
IVII IX	Ng	E+00	E+00	E+00	E+00	IND	IND	IND	IND	ND	ND	IND	ND	ND	IND	IND	ND	ND	IND
MER	kg	5,78	0,00	0,00	5,78	ND	ND	ND	ND										
WILK	Ng	E-04	E+00	E+00	E-04	110	ND	110	110	110	ND	110	ND	110	110	I I I	110	ND	
EEE	EEE MJ	0,00	0,00	0,00	0,00	ND	ND	ND	ND										
		E+00	E+00	E+00	E+00	110	110	110	110	110	110	110	110	110	110	110	110	110	
ETE	ETE MJ	0,00	0,00	0,00	0,00	ND	ND	ND	ND										
	IVIO	E+00	E+00	E+00	E+00	'\"	140	IND	IND	IND	IND	'\"	IND	'\	140	140	IND	140	.40

HWD = Hazardous Waste Disposed NHWD = Non Hazardous Waste Disposed RWD = Radioactive Waste Disposed CRU = Components for reuse MFR = Materials for recycling MER = Materials for energy recovery Exported Electrical Energy EEE = ETE = **Exported Thermal Energy**









RESOURCE USE per functional unit or declared unit (A1 / A2)

	Unit	A1	A2	А3	A1- A3	A4	A5	B1	B2	ВЗ	B4	B5	В6	В7	C1	C2	СЗ	C4	D
PERE	MJ	2,02	0,00	0,00	2,02	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PERE	IVIJ	E-01	E+00	E+00	E-01	ND	ND	ND	ND	ND	ND	ND	ND	IND	ND	ND	ND	טאו	ND
PERM	MJ	1,07	0,00	0,00	1,07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PERIVI	IVIJ	E-03	E+00	E+00	E-03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DEDT	MI	2,57	1,06	1,89	4,46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PERT	MJ	E+00	E-02	E+00	E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENRE	MJ	4,10	0,00	0,00	4,10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENKE	IVIJ	E+00	E+00	E+00	E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENRM	MJ	2,54	0,00	0,00	2,54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENRIVI	IVIJ	E+00	E+00	E+00	E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENRT	MJ	8,10	8,97	1,33	9,52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PENKI	IVIJ	E+01	E-01	E+01	E+01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SM	lea.	0,00	0,00	0,00	0,00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SIVI	kg	E+00	E+00	E+00	E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
RSF	MI	0,00	0,00	0,00	0,00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
KSF	MJ	E+00	E+00	E+00	E+00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NRSF MJ	0,00	0,00	0,00	0,00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	IVIJ	E+00	E+00	E+00	E+00	ND	ND	ND	טא	טא	טא	ND	ND	טא	ND	ND	טא	ND	טא
FW	m 2	2,58	1,03	1,16	3,74	ND.		ND	ND	ND	ND	ND	ND						
LVV	m3	E-02 E-04 E-02 E-02	ND	ND	ND	טא	ND	ND	ND	ND	טא	ND	ND	ND	טא	טא			

PERE = Use of renewable energy excluding renewable primary energy resources

PERM = Use of renewable 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
NRSF = Use of non-renewable secondary fuels

FW = Use of net fresh water



BIOGENIC CARBON CONTENT per functional unit or declared unit (A1 / A2)

		Unit	A1	A2	А3	A1-A3	A4	A5	B1	B2	ВЗ	B4	B5	В6	В7	C1	C2	C3	C4	D
BB	Cpr	Kg C	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND													
BC	Сра	kg C	0,00E+00	0,00E+00	0,00E+00	0,00E+00	ND													

BCCpr = Biogenic carbon content in product
BCCpa = Biogenic carbon content in packaging









CALCULATION RULES

Data quality

Data flows have been modeled as realistically as possible. Data quality assessment is based on the principle that the primary data used for processes occurring at the production site is selected in the first instance. Where this is not available, other reference data is selected from appropriate sources.

Data collection period

The dataset is representative for the production processes used in 2023.

Methodology and reproducibility

The process descriptions and quantities in this study are reproducible in accordance to the reference standards that have been used. The references of all sources, both primary and public sources and literature, have been documented. In addition, to facilitate the reproducibility of this LCA, a full set of data records has been generated."

Cut Off

In this study, all inputs and outputs - such as emissions, energy and material inputs - are included in the calculation according to the Determination Method (5). The contribution to each impact category by the capital goods is calculated to be no more than 5%.



SCENARIOS AND ADDITIONAL TECHNICAL INFORMATION

A1. Raw materials supply

All materials needed for production as well as packaging is taken into account.

A2. Transport of raw materials to manufacturer

The transportation of the suppliers to Adfil N.V. is done by truck.

A3. Manufacturing

The production process begins with extrusion, during which the required plastics are combined and processed. After extrusion, the hardened material is cut to the desired dimensions. The products then undergo a quality control process to check for production defects. After production, the various products are packaged in foil and paper bags. Throughout the entire manufacturing process, only electricity is used as the energy source. The process results in a production loss of 4.49%. During production, only electricity consumption occurs. The specified electricity consumption covers the electricity usage of all machines and equipment. For electricity purposes the following reference was selected: Electricity, high voltage {BE}| market for with 0,244 kg GWP per KWh



DECLARATION OF SVHC

None of the substances contained in the product are listed in the "Candidate List of Substances of Very High Concern for authorisation", or they do not exceed the threshold with the European Chemicals Agency.



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REMARKS

EPD of construction products may not be comparable if they do not comply with EN15804.

