## **Environmental Profile**

This LCA is calculated according to: ISO 14044, ISO 14040 and EN 15804

Ecochain v3.5.64



Product: 3028278 - X-Stream Coupler BK 600x630PVC S/PL

Unit: 1 Piece

Manufacturer: Wavin - SE - Eskilstuna

Wavin X-Stream is a new generation of double-walled pipes and fittings made of polypropylene. The system is suitable for pressureless transport of rainwater and wastewater.

LCA standard: EN15804+A2 (2019)

Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off

Externally verified: Yes

Issue date: 20-06-2022 End of validity: 20-06-2027

Verifier: Harry van Ewijk - SGS Search

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This LCA was evaluated according to EN15804+A2. It was concluded that the LCA complies with this standard.

The LCA background information and project dossier have been registered in the online Ecochain application in the account Wavin - SE - Eskilstuna (2020). ( = module declared, MND = module not declared).

A1	A2	А3	A4	A5	B1	B2	В3	B4	B5	В6	B7	C1	C2	C3	C4	D
MND	MND		MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	$\overline{\square}$		$\overline{\square}$	$\square$
Product stage Use stage								End-of-Life stage								
A1 Raw material supply A2 Transport A3 Manufacturing				B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment						C1 De-construction demolition C2 Transport C3 Waste processing						
Construction process stage				B6 Operational energy use B7 Operational water use						C4 Disposal						
A4. Transport mate to eite				•						Benefits and loads beyond the system boundaries						
A4 Transport gate to site A5 Assembly / Construction installation process												D Reuse- Reco	very- Recycling	g- potential		

## Environmental impacts and parameters

GWP-total = EF Climate Change [kg CO2 eq]; GWP-f = EF Climate change - Fossil [kg CO2 eq]; GWP-b = EF Climate Change - Land use and LU change [kg CO2 eq]; GWP-m = EF Climate Change - Biogenic [kg CO2 eq]; GWP-b = EF Climate Change - Land use and LU change [kg CO2 eq]; GWP-m = EF Climate Change - Biogenic [kg CO2 eq]; GWP-b = EF Climate Change - Land use and LU change [kg CO2 eq]; GWP-m = EF Climate Change - Land use and LU change [kg CO2 eq]; GWP-b = EF Climate Change - Land use and LU change [kg CO2 eq]; GWP-f = EF Climate Change - Land use [kg CO2 eq]; GWP-b = EF Climate Change - Land us

## Statement of Confidentiality

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## Results

Environmental impact	Unit	А3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	9.91E-1	9.91E-1	0	0	0	0	9.91E-1
GWP-f	kg CO2 eq	7.18E-1	7.18E-1	0	0	0	0	7.18E-1
GWP-b	kg CO2 eq	1.89E-1	1.89E-1	0	0	0	0	1.89E-1
GWP-Iuluc	kg CO2 eq	8.35E-2	8.35E-2	0	0	0	0	8.35E-2
ODP	kg CFC11 eq	8.14E-8	8.14E-8	0	0	0	0	8.14E-8
AP	mol H+ eq	6.08E-3	6.08E-3	0	0	0	0	6.08E-3
EP-fw	kg P eq	1.33E-5	1.33E-5	0	0	0	0	1.33E-5
EP-m	kg N eq	1.80E-3	1.80E-3	0	0	0	0	1.80E-3
EP-T	mol N eq	1.98E-2	1.98E-2	0	0	0	0	1.98E-2
POCP	kg NMVOC eq	5.49E-3	5.49E-3	0	0	0	0	5.49E-3
ADP-mm	kg Sb eq	2.16E-5	2.16E-5	0	0	0	0	2.16E-5
ADP-f	MJ	7.14E+0	7.14E+0	0	0	0	0	7.14E+0
WDP	m3 depriv.	4.60E+0	4.60E+0	0	0	0	0	4.60E+0
PM	disease inc.	1.03E-7	1.03E-7	0	0	0	0	1.03E-7
IR	kBq U-235 eq	2.12E-2	2.12E-2	0	0	0	0	2.12E-2
ETP-fw	CTUe	1.99E+1	1.99E+1	0	0	0	0	1.99E+1
HTP-c	CTUh	7.86E-10	7.86E-10	0	0	0	0	7.86E-10
HTP-nc	CTUh	2.14E-8	2.14E-8	0	0	0	0	2.14E-8
SQP	Pt	9.38E-1	9.38E-1	0	0	0	0	9.38E-1
Resource use	Unit	А3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.50E+1	4.50E+1	0	0	0	0	4.50E+1
PERM	MJ	0	0	0	0	0	0	0
PERT	MJ	4.50E+1	4.50E+1	0	0	0	0	4.50E+1
PENRE	MJ	7.58E+0	7.58E+0	0	0	0	0	7.58E+0
PENRM	MJ	0	0	0	0	0	0	0
PENRT	MJ	7.58E+0	7.58E+0	0	0	0	0	7.58E+0
PET	MJ	5.26E+1	5.26E+1	0	0	0	0	5.26E+1
SM	kg	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0
FW	m3	1.09E-1	1.09E-1	0	0	0	0	1.09E-1

Output flows and waste categories	Unit	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.09E-5	1.09E-5	0	0	0	0	1.09E-5
NHWD	kg	3.33E-2	3.33E-2	0	0	0	0	3.33E-2
RWD	kg	3.02E-5	3.02E-5	0	0	0	0	3.02E-5
CRU	kg	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0
EE	МЈ	0	0	0	0	0	0	0
EET	МЈ	0	0	0	0	0	0	0
EEE	МЈ	0	0	0	0	0	0	0



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