

Environmental Profile

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

Ecochain v3.5.64



Product: 3062906 - 425X400 X-STREAM KUM RETTLØP
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



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	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
MND	MND	☑	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	☑	☑	☑	☑
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 B6 Operational energy use B7 Operational water use							C1 De-construction demolition C2 Transport C3 Waste processing C4 Disposal				
Construction process stage					Benefits and loads beyond the system boundaries											
A4 Transport gate to site					D Reuse- Recovery- Recycling- potential											
A5 Assembly / Construction installation process																

Results

Environmental impact	Unit	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	9.71E-1	9.71E-1	0	0	0	0	9.71E-1
GWP-f	kg CO2 eq	7.04E-1	7.04E-1	0	0	0	0	7.04E-1
GWP-b	kg CO2 eq	1.85E-1	1.85E-1	0	0	0	0	1.85E-1
GWP-luluc	kg CO2 eq	8.18E-2	8.18E-2	0	0	0	0	8.18E-2
ODP	kg CFC11 eq	7.97E-8	7.97E-8	0	0	0	0	7.97E-8
AP	mol H+ eq	5.96E-3	5.96E-3	0	0	0	0	5.96E-3
EP-fw	kg P eq	1.30E-5	1.30E-5	0	0	0	0	1.30E-5
EP-m	kg N eq	1.77E-3	1.77E-3	0	0	0	0	1.77E-3
EP-T	mol N eq	1.94E-2	1.94E-2	0	0	0	0	1.94E-2
POCP	kg NMVOC eq	5.38E-3	5.38E-3	0	0	0	0	5.38E-3
ADP-mm	kg Sb eq	2.12E-5	2.12E-5	0	0	0	0	2.12E-5
ADP-f	MJ	6.99E+0	6.99E+0	0	0	0	0	6.99E+0
WDP	m3 depriv.	4.51E+0	4.51E+0	0	0	0	0	4.51E+0
PM	disease inc.	1.01E-7	1.01E-7	0	0	0	0	1.01E-7
IR	kBq U-235 eq	2.08E-2	2.08E-2	0	0	0	0	2.08E-2
ETP-fw	CTUe	1.95E+1	1.95E+1	0	0	0	0	1.95E+1
HTP-c	CTUh	7.70E-10	7.70E-10	0	0	0	0	7.70E-10
HTP-nc	CTUh	2.10E-8	2.10E-8	0	0	0	0	2.10E-8
SQP	Pt	9.20E-1	9.20E-1	0	0	0	0	9.20E-1
Resource use	Unit	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.41E+1	4.41E+1	0	0	0	0	4.41E+1
PERM	MJ	0	0	0	0	0	0	0
PERT	MJ	4.41E+1	4.41E+1	0	0	0	0	4.41E+1
PENRE	MJ	7.43E+0	7.43E+0	0	0	0	0	7.43E+0
PENRM	MJ	0	0	0	0	0	0	0
PENRT	MJ	7.43E+0	7.43E+0	0	0	0	0	7.43E+0
PET	MJ	5.15E+1	5.15E+1	0	0	0	0	5.15E+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	1.07E-1	1.07E-1	0	0	0	0	1.07E-1

Output flows and waste categories	Unit	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.07E-5	1.07E-5	0	0	0	0	1.07E-5
NHWD	kg	3.26E-2	3.26E-2	0	0	0	0	3.26E-2
RWD	kg	2.96E-5	2.96E-5	0	0	0	0	2.96E-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	MJ	0	0	0	0	0	0	0
EET	MJ	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0



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