

Environmental Profile

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

Ecochain v3.5.80



Product: 3003139 - Wadal PVC Bend 30° GY 125 S/S
Unit: 1 piece
Manufacturer: Wavin - NL - Hardenberg - Verified
Address: J.C. Kellerlaan 3
7772 SG Hardenberg
Netherlands

With Wadal you opt for a tensile-resistant system whose connections cannot slide apart. There is a solution for every indoor drainage situation, thanks to the very extensive range of PVC adhesive fittings and pipes. KOMO certified.

LCA standard: NMD Bepalingsmethode 1.1 (2022)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 08-06-2023
End of validity: 08-06-2028
Verifier: Martijn van Hövell - 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 - NL - Hardenberg - Verified (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	☑	☑	☑	☑
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 SBK set 1	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
ECI	euro	0.08	0	0	0.09	0	0.03	0	-0.04	0.07
ADPE	kg Sb-eq	7.38E-4	2.58E-7	1.14E-6	7.39E-4	2.42E-7	2.20E-6	2.71E-9	-8.43E-6	7.33E-4
ADPF	kg Sb-eq	8.63E-3	7.42E-5	1.97E-4	8.90E-3	6.82E-5	7.59E-4	3.75E-6	-4.73E-3	5.00E-3
GWP	kg CO2-eq	7.23E-1	1.01E-2	3.73E-2	7.70E-1	9.30E-3	2.59E-1	2.55E-3	-4.06E-1	6.35E-1
ODP	kg CFC-11-eq	4.08E-7	1.79E-9	2.95E-9	4.13E-7	1.72E-9	3.19E-8	8.94E-11	-2.06E-7	2.41E-7
POCP	kg ethene-eq	4.14E-4	6.09E-6	1.62E-5	4.36E-4	5.58E-6	5.99E-5	6.62E-7	-2.11E-4	2.91E-4
AP	kg SO2-eq	2.90E-3	4.44E-5	1.60E-4	3.10E-3	4.00E-5	4.43E-4	2.02E-6	-1.39E-3	2.20E-3
EP	kg PO4 3--eq	3.72E-4	8.72E-6	2.06E-5	4.01E-4	7.99E-6	6.71E-5	7.96E-7	-1.87E-4	2.90E-4
HTP	kg 1,4-DB-eq	2.83E-1	4.25E-3	1.73E-2	3.04E-1	3.98E-3	1.15E-1	2.12E-4	-1.32E-1	2.92E-1
FAETP	kg 1,4-DB-eq	8.52E-3	1.24E-4	5.92E-4	9.23E-3	1.16E-4	1.75E-3	6.53E-5	-3.68E-3	7.49E-3
MAETP	kg 1,4-DB-eq	2.00E+1	4.46E-1	2.33E+0	2.28E+1	4.16E-1	6.04E+0	7.98E-2	-8.56E+0	2.07E+1
TETP	kg 1,4-DB-eq	2.09E-3	1.50E-5	1.29E-3	3.40E-3	1.41E-5	4.11E-4	7.13E-7	-1.23E-3	2.59E-3
Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	7.47E-1	1.02E-2	4.27E-2	8.00E-1	9.38E-3	2.76E-1	2.97E-3	-3.83E-1	7.05E-1
GWP-f	kg CO2 eq	7.39E-1	1.02E-2	3.28E-2	7.82E-1	9.37E-3	2.61E-1	2.97E-3	-4.15E-1	6.40E-1
GWP-b	kg CO2 eq	7.38E-3	4.70E-6	6.77E-3	1.42E-2	5.69E-6	1.50E-2	3.76E-6	3.21E-2	6.13E-2
GWP-luluc	kg CO2 eq	8.27E-4	3.73E-6	3.11E-3	3.95E-3	3.32E-6	1.18E-4	7.81E-8	-5.02E-4	3.56E-3
ODP	kg CFC11 eq	4.03E-7	2.25E-9	3.47E-9	4.09E-7	2.16E-9	3.28E-8	1.11E-10	-2.04E-7	2.40E-7
AP	mol H+ eq	3.53E-3	5.90E-5	2.00E-4	3.79E-3	5.34E-5	5.56E-4	2.70E-6	-1.68E-3	2.72E-3
EP-fw	kg P eq	3.58E-5	1.03E-7	5.75E-7	3.65E-5	7.71E-8	3.97E-6	3.53E-9	-1.78E-5	2.27E-5
EP-m	kg N eq	6.31E-4	2.08E-5	4.72E-5	6.99E-4	1.91E-5	1.36E-4	1.67E-6	-2.99E-4	5.57E-4
EP-T	mol N eq	6.80E-3	2.29E-4	5.21E-4	7.55E-3	2.10E-4	1.49E-3	1.08E-5	-3.21E-3	6.05E-3
POCP	kg NMVOC eq	2.18E-3	6.55E-5	1.48E-4	2.39E-3	6.02E-5	4.47E-4	3.71E-6	-1.07E-3	1.83E-3
ADP-mm	kg Sb eq	7.38E-4	2.58E-7	1.14E-6	7.39E-4	2.42E-7	2.20E-6	2.71E-9	-8.43E-6	7.33E-4
ADP-f	MJ	1.84E+1	1.53E-1	3.67E-1	1.89E+1	1.44E-1	1.50E+0	8.11E-3	-9.98E+0	1.06E+1
WDP	m3 depriv.	1.22E+0	5.49E-4	2.84E-1	1.51E+0	4.41E-4	5.96E-2	5.25E-5	-6.28E-1	9.38E-1
PM	disease inc.	2.37E-8	9.14E-10	2.47E-9	2.71E-8	8.46E-10	6.87E-9	5.58E-11	-1.29E-8	2.20E-8
IR	kBq U-235 eq	4.21E-2	6.43E-4	5.83E-4	4.33E-2	6.29E-4	5.32E-3	3.73E-5	-2.08E-2	2.86E-2
ETP-fw	CTUe	2.25E+1	1.37E-1	8.52E-1	2.35E+1	1.17E-1	1.17E+1	1.29E-1	-8.19E+0	2.73E+1
HTP-c	CTUh	6.14E-10	4.44E-12	2.95E-11	6.48E-10	4.16E-12	1.67E-10	2.24E-13	-2.32E-10	5.87E-10
HTP-nc	CTUh	2.03E-8	1.50E-10	9.21E-10	2.14E-8	1.39E-10	4.05E-9	2.48E-11	-8.02E-9	1.76E-8
SQP	Pt	3.80E+0	1.33E-1	2.74E-2	3.96E+0	1.23E-1	9.15E-1	2.08E-2	-7.28E+0	-2.27E+0

Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.21E+0	1.92E-3	1.78E+0	2.99E+0	2.06E-3	1.09E-1	3.03E-4	-1.55E+0	1.55E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.21E+0	1.92E-3	1.78E+0	2.99E+0	2.06E-3	1.09E-1	3.03E-4	-1.55E+0	1.55E+0
PENRE	MJ	1.97E+1	1.63E-1	3.96E-1	2.03E+1	1.53E-1	1.60E+0	8.60E-3	-1.07E+1	1.13E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.97E+1	1.63E-1	3.96E-1	2.03E+1	1.53E-1	1.60E+0	8.60E-3	-1.07E+1	1.13E+1
PET	MJ	2.09E+1	1.65E-1	2.18E+0	2.33E+1	1.55E-1	1.71E+0	8.90E-3	-1.23E+1	1.29E+1
SM	kg	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0
FW	m3	1.37E-2	1.87E-5	6.71E-3	2.04E-2	1.63E-5	1.63E-3	9.93E-6	-7.33E-3	1.47E-2
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.06E-4	3.89E-7	3.89E-7	1.07E-4	3.68E-7	2.45E-6	9.87E-9	-8.44E-6	1.01E-4
NHWD	kg	7.69E-2	9.74E-3	6.01E-4	8.73E-2	8.92E-3	5.41E-2	3.56E-2	-3.35E-2	1.52E-1
RWD	kg	3.66E-5	1.01E-6	7.22E-7	3.83E-5	9.78E-7	5.69E-6	5.27E-8	-1.84E-5	2.66E-5
CRU	kg	0	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0
EET	MJ	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0	0	0



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