

Environmental Profile

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

Ecochain v3.5.80



Product: 3003171 - Wadal PVC Tee 45° GY 90 S/S/S
Unit: 1 piece
Manufacturer: Wavin - NL - Hardenberg - Verified
Address: J.C. Kellerlaan 3
7772 SG Hardenberg
Netherlands

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



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.

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	0.11	0	0.01	0.11	0	0.03	0	-0.05	0.09
ADPE	kg Sb-eq	9.54E-4	3.34E-7	1.48E-6	9.55E-4	3.13E-7	2.84E-6	3.50E-9	-1.09E-5	9.48E-4
ADPF	kg Sb-eq	1.12E-2	9.61E-5	2.54E-4	1.15E-2	8.82E-5	9.82E-4	4.85E-6	-6.12E-3	6.46E-3
GWP	kg CO2-eq	9.35E-1	1.31E-2	4.82E-2	9.97E-1	1.20E-2	3.35E-1	3.30E-3	-5.26E-1	8.21E-1
ODP	kg CFC-11-eq	5.28E-7	2.32E-9	3.81E-9	5.34E-7	2.23E-9	4.12E-8	1.15E-10	-2.66E-7	3.11E-7
POCP	kg ethene-eq	5.35E-4	7.89E-6	2.09E-5	5.64E-4	7.21E-6	7.76E-5	8.55E-7	-2.73E-4	3.77E-4
AP	kg SO2-eq	3.75E-3	5.75E-5	2.07E-4	4.02E-3	5.17E-5	5.73E-4	2.61E-6	-1.80E-3	2.85E-3
EP	kg PO4 3--eq	4.82E-4	1.13E-5	2.66E-5	5.20E-4	1.03E-5	8.68E-5	1.03E-6	-2.43E-4	3.76E-4
HTP	kg 1,4-DB-eq	3.66E-1	5.50E-3	2.24E-2	3.94E-1	5.14E-3	1.49E-1	2.74E-4	-1.71E-1	3.77E-1
FAETP	kg 1,4-DB-eq	1.11E-2	1.61E-4	7.65E-4	1.20E-2	1.50E-4	2.27E-3	8.43E-5	-4.80E-3	9.69E-3
MAETP	kg 1,4-DB-eq	2.58E+1	5.78E-1	3.01E+0	2.94E+1	5.38E-1	7.82E+0	1.03E-1	-1.11E+1	2.68E+1
TETP	kg 1,4-DB-eq	2.71E-3	1.94E-5	1.66E-3	4.40E-3	1.82E-5	5.31E-4	9.21E-7	-1.60E-3	3.34E-3
Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	9.67E-1	1.32E-2	5.52E-2	1.04E+0	1.21E-2	3.57E-1	3.84E-3	-4.95E-1	9.14E-1
GWP-f	kg CO2 eq	9.57E-1	1.32E-2	4.24E-2	1.01E+0	1.21E-2	3.37E-1	3.84E-3	-5.37E-1	8.28E-1
GWP-b	kg CO2 eq	9.56E-3	6.08E-6	8.75E-3	1.83E-2	7.35E-6	2.00E-2	4.86E-6	4.30E-2	8.14E-2
GWP-luluc	kg CO2 eq	1.08E-3	4.83E-6	4.02E-3	5.11E-3	4.29E-6	1.53E-4	1.01E-7	-6.60E-4	4.60E-3
ODP	kg CFC11 eq	5.21E-7	2.91E-9	4.48E-9	5.28E-7	2.79E-9	4.24E-8	1.43E-10	-2.64E-7	3.10E-7
AP	mol H+ eq	4.57E-3	7.64E-5	2.58E-4	4.90E-3	6.90E-5	7.19E-4	3.49E-6	-2.17E-3	3.52E-3
EP-fw	kg P eq	4.64E-5	1.33E-7	7.42E-7	4.72E-5	9.96E-8	5.13E-6	4.57E-9	-2.31E-5	2.93E-5
EP-m	kg N eq	8.18E-4	2.69E-5	6.10E-5	9.06E-4	2.47E-5	1.76E-4	2.16E-6	-3.88E-4	7.20E-4
EP-T	mol N eq	8.81E-3	2.97E-4	6.73E-4	9.78E-3	2.72E-4	1.93E-3	1.39E-5	-4.17E-3	7.83E-3
POCP	kg NMVOC eq	2.82E-3	8.48E-5	1.92E-4	3.10E-3	7.77E-5	5.79E-4	4.79E-6	-1.39E-3	2.37E-3
ADP-mm	kg Sb eq	9.54E-4	3.34E-7	1.48E-6	9.55E-4	3.13E-7	2.84E-6	3.50E-9	-1.09E-5	9.48E-4
ADP-f	MJ	2.38E+1	1.99E-1	4.74E-1	2.45E+1	1.86E-1	1.94E+0	1.05E-2	-1.29E+1	1.37E+1
WDP	m3 depriv.	1.58E+0	7.11E-4	3.67E-1	1.95E+0	5.70E-4	7.70E-2	6.79E-5	-8.13E-1	1.21E+0
PM	disease inc.	3.08E-8	1.18E-9	3.19E-9	3.52E-8	1.09E-9	8.88E-9	7.21E-11	-1.68E-8	2.85E-8
IR	kBq U-235 eq	5.45E-2	8.33E-4	7.53E-4	5.61E-2	8.12E-4	6.88E-3	4.81E-5	-2.69E-2	3.69E-2
ETP-fw	CTUe	2.93E+1	1.77E-1	1.10E+0	3.05E+1	1.51E-1	1.51E+1	1.67E-1	-1.07E+1	3.53E+1
HTP-c	CTUh	7.94E-10	5.75E-12	3.81E-11	8.38E-10	5.37E-12	2.16E-10	2.89E-13	-3.00E-10	7.58E-10
HTP-nc	CTUh	2.62E-8	1.94E-10	1.19E-9	2.76E-8	1.80E-10	5.23E-9	3.21E-11	-1.04E-8	2.27E-8
SQP	Pt	4.97E+0	1.72E-1	3.54E-2	5.18E+0	1.59E-1	1.18E+0	2.68E-2	-9.68E+0	-3.14E+0

Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.58E+0	2.49E-3	2.30E+0	3.88E+0	2.67E-3	1.41E-1	3.91E-4	-2.06E+0	1.97E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.58E+0	2.49E-3	2.30E+0	3.88E+0	2.67E-3	1.41E-1	3.91E-4	-2.06E+0	1.97E+0
PENRE	MJ	2.55E+1	2.11E-1	5.12E-1	2.62E+1	1.97E-1	2.06E+0	1.11E-2	-1.39E+1	1.46E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.55E+1	2.11E-1	5.12E-1	2.62E+1	1.97E-1	2.06E+0	1.11E-2	-1.39E+1	1.46E+1
PET	MJ	2.71E+1	2.14E-1	2.82E+0	3.01E+1	2.00E-1	2.21E+0	1.15E-2	-1.59E+1	1.66E+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	1.77E-2	2.42E-5	8.67E-3	2.64E-2	2.10E-5	2.11E-3	1.28E-5	-9.53E-3	1.90E-2
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.37E-4	5.04E-7	5.03E-7	1.38E-4	4.75E-7	3.17E-6	1.28E-8	-1.09E-5	1.31E-4
NHWD	kg	9.97E-2	1.26E-2	7.77E-4	1.13E-1	1.15E-2	6.99E-2	4.61E-2	-4.34E-2	1.97E-1
RWD	kg	4.73E-5	1.31E-6	9.33E-7	4.96E-5	1.26E-6	7.36E-6	6.81E-8	-2.39E-5	3.43E-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