

Environmental Profile

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

Ecochain v3.5.80



Product: 3003166 - Wadal PVC Tee 88° GY 75 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	0.05	0	0	0.05	0	0.02	0	-0.03	0.05
ADPE	kg Sb-eq	4.60E-4	1.64E-7	7.13E-7	4.61E-4	1.51E-7	1.38E-6	1.69E-9	-5.30E-6	4.57E-4
ADPF	kg Sb-eq	5.42E-3	4.72E-5	1.23E-4	5.59E-3	4.26E-5	4.76E-4	2.34E-6	-2.98E-3	3.14E-3
GWP	kg CO2-eq	4.57E-1	6.41E-3	2.33E-2	4.86E-1	5.80E-3	1.62E-1	1.59E-3	-2.57E-1	3.99E-1
ODP	kg CFC-11-eq	2.55E-7	1.14E-9	1.84E-9	2.58E-7	1.08E-9	2.00E-8	5.57E-11	-1.29E-7	1.51E-7
POCP	kg ethene-eq	2.61E-4	3.87E-6	1.01E-5	2.75E-4	3.48E-6	3.79E-5	4.13E-7	-1.34E-4	1.82E-4
AP	kg SO2-eq	1.83E-3	2.82E-5	1.00E-4	1.96E-3	2.49E-5	2.78E-4	1.26E-6	-8.87E-4	1.38E-3
EP	kg PO4 3--eq	2.39E-4	5.54E-6	1.29E-5	2.57E-4	4.98E-6	4.23E-5	4.96E-7	-1.23E-4	1.82E-4
HTP	kg 1,4-DB-eq	1.78E-1	2.70E-3	1.08E-2	1.92E-1	2.48E-3	7.24E-2	1.32E-4	-8.43E-2	1.82E-1
FAETP	kg 1,4-DB-eq	5.54E-3	7.88E-5	3.69E-4	5.99E-3	7.26E-5	1.10E-3	4.07E-5	-2.48E-3	4.73E-3
MAETP	kg 1,4-DB-eq	1.26E+1	2.84E-1	1.45E+0	1.44E+1	2.59E-1	3.83E+0	4.98E-2	-5.46E+0	1.30E+1
TETP	kg 1,4-DB-eq	1.33E-3	9.55E-6	8.04E-4	2.14E-3	8.79E-6	2.57E-4	4.45E-7	-8.28E-4	1.58E-3
Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	4.72E-1	6.47E-3	2.66E-2	5.05E-1	5.85E-3	1.75E-1	1.86E-3	-2.36E-1	4.52E-1
GWP-f	kg CO2 eq	4.67E-1	6.47E-3	2.05E-2	4.94E-1	5.84E-3	1.63E-1	1.85E-3	-2.62E-1	4.02E-1
GWP-b	kg CO2 eq	4.69E-3	2.99E-6	4.22E-3	8.92E-3	3.55E-6	1.21E-2	2.34E-6	2.63E-2	4.74E-2
GWP-luluc	kg CO2 eq	5.51E-4	2.37E-6	1.94E-3	2.50E-3	2.07E-6	7.40E-5	4.87E-8	-3.57E-4	2.21E-3
ODP	kg CFC11 eq	2.52E-7	1.43E-9	2.16E-9	2.56E-7	1.35E-9	2.06E-8	6.92E-11	-1.28E-7	1.50E-7
AP	mol H+ eq	2.23E-3	3.75E-5	1.25E-4	2.39E-3	3.33E-5	3.50E-4	1.68E-6	-1.08E-3	1.70E-3
EP-fw	kg P eq	2.27E-5	6.53E-8	3.58E-7	2.31E-5	4.81E-8	2.48E-6	2.20E-9	-1.16E-5	1.40E-5
EP-m	kg N eq	4.04E-4	1.32E-5	2.95E-5	4.47E-4	1.19E-5	8.57E-5	1.04E-6	-1.93E-4	3.52E-4
EP-T	mol N eq	4.34E-3	1.46E-4	3.25E-4	4.81E-3	1.31E-4	9.44E-4	6.71E-6	-2.08E-3	3.81E-3
POCP	kg NMVOC eq	1.38E-3	4.16E-5	9.25E-5	1.51E-3	3.75E-5	2.83E-4	2.31E-6	-6.88E-4	1.15E-3
ADP-mm	kg Sb eq	4.60E-4	1.64E-7	7.13E-7	4.61E-4	1.51E-7	1.38E-6	1.69E-9	-5.30E-6	4.57E-4
ADP-f	MJ	1.16E+1	9.76E-2	2.29E-1	1.19E+1	8.97E-2	9.42E-1	5.06E-3	-6.28E+0	6.64E+0
WDP	m3 depriv.	7.64E-1	3.49E-4	1.77E-1	9.41E-1	2.75E-4	3.72E-2	3.28E-5	-4.01E-1	5.78E-1
PM	disease inc.	1.53E-8	5.81E-10	1.54E-9	1.74E-8	5.28E-10	4.33E-9	3.48E-11	-8.61E-9	1.37E-8
IR	kBq U-235 eq	2.65E-2	4.09E-4	3.64E-4	2.73E-2	3.92E-4	3.34E-3	2.32E-5	-1.33E-2	1.77E-2
ETP-fw	CTUe	1.48E+1	8.70E-2	5.31E-1	1.54E+1	7.28E-2	7.32E+0	8.07E-2	-5.59E+0	1.73E+1
HTP-c	CTUh	3.86E-10	2.82E-12	1.84E-11	4.07E-10	2.59E-12	1.05E-10	1.40E-13	-1.48E-10	3.66E-10
HTP-nc	CTUh	1.27E-8	9.52E-11	5.74E-10	1.34E-8	8.68E-11	2.53E-9	1.55E-11	-5.13E-9	1.09E-8
SQP	Pt	2.62E+0	8.46E-2	1.71E-2	2.72E+0	7.67E-2	5.74E-1	1.30E-2	-5.67E+0	-2.29E+0

Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.07E-1	1.22E-3	1.11E+0	1.92E+0	1.29E-3	6.80E-2	1.89E-4	-1.17E+0	8.15E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.07E-1	1.22E-3	1.11E+0	1.92E+0	1.29E-3	6.80E-2	1.89E-4	-1.17E+0	8.15E-1
PENRE	MJ	1.24E+1	1.04E-1	2.47E-1	1.27E+1	9.52E-2	1.00E+0	5.36E-3	-6.76E+0	7.09E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.24E+1	1.04E-1	2.47E-1	1.27E+1	9.52E-2	1.00E+0	5.36E-3	-6.76E+0	7.09E+0
PET	MJ	1.32E+1	1.05E-1	1.36E+0	1.47E+1	9.65E-2	1.07E+0	5.55E-3	-7.93E+0	7.90E+0
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	8.61E-3	1.19E-5	4.18E-3	1.28E-2	1.02E-5	1.02E-3	6.19E-6	-4.81E-3	9.03E-3
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.63E-5	2.47E-7	2.43E-7	6.67E-5	2.29E-7	1.54E-6	6.16E-9	-5.34E-6	6.32E-5
NHWD	kg	4.90E-2	6.19E-3	3.75E-4	5.56E-2	5.56E-3	3.40E-2	2.22E-2	-2.14E-2	9.60E-2
RWD	kg	2.31E-5	6.41E-7	4.50E-7	2.42E-5	6.10E-7	3.59E-6	3.29E-8	-1.19E-5	1.65E-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