

Environmental Profile

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

Ecochain v3.5.80



Product: 3003181 – Wadal PVC Tee 45° GY 125 S/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	0.18	0	0.01	0.19	0	0.06	0	-0.09	0.16
ADPE	kg Sb-eq	1.65E-3	5.76E-7	2.55E-6	1.65E-3	5.41E-7	4.91E-6	6.04E-9	-1.88E-5	1.64E-3
ADPF	kg Sb-eq	1.93E-2	1.66E-4	4.38E-4	1.99E-2	1.52E-4	1.69E-3	8.36E-6	-1.06E-2	1.11E-2
GWP	kg CO2-eq	1.61E+0	2.26E-2	8.32E-2	1.72E+0	2.07E-2	5.78E-1	5.69E-3	-9.07E-1	1.42E+0
ODP	kg CFC-11-eq	9.11E-7	4.00E-9	6.58E-9	9.22E-7	3.84E-9	7.12E-8	1.99E-10	-4.60E-7	5.37E-7
POCP	kg ethene-eq	9.24E-4	1.36E-5	3.62E-5	9.73E-4	1.24E-5	1.34E-4	1.48E-6	-4.71E-4	6.50E-4
AP	kg SO2-eq	6.47E-3	9.92E-5	3.58E-4	6.93E-3	8.92E-5	9.89E-4	4.50E-6	-3.10E-3	4.91E-3
EP	kg PO4 3--eq	8.32E-4	1.95E-5	4.60E-5	8.98E-4	1.78E-5	1.50E-4	1.77E-6	-4.19E-4	6.48E-4
HTP	kg 1,4-DB-eq	6.31E-1	9.50E-3	3.87E-2	6.79E-1	8.87E-3	2.58E-1	4.73E-4	-2.96E-1	6.50E-1
FAETP	kg 1,4-DB-eq	1.91E-2	2.77E-4	1.32E-3	2.07E-2	2.60E-4	3.91E-3	1.46E-4	-8.29E-3	1.67E-2
MAETP	kg 1,4-DB-eq	4.46E+1	9.97E-1	5.20E+0	5.08E+1	9.28E-1	1.35E+1	1.78E-1	-1.91E+1	4.63E+1
TETP	kg 1,4-DB-eq	4.68E-3	3.36E-5	2.87E-3	7.59E-3	3.14E-5	9.17E-4	1.59E-6	-2.77E-3	5.77E-3
Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.67E+0	2.28E-2	9.52E-2	1.79E+0	2.09E-2	6.17E-1	6.63E-3	-8.54E-1	1.58E+0
GWP-f	kg CO2 eq	1.65E+0	2.27E-2	7.32E-2	1.75E+0	2.09E-2	5.82E-1	6.63E-3	-9.27E-1	1.43E+0
GWP-b	kg CO2 eq	1.65E-2	1.05E-5	1.51E-2	3.16E-2	1.27E-5	3.46E-2	8.39E-6	7.43E-2	1.41E-1
GWP-luluc	kg CO2 eq	1.86E-3	8.34E-6	6.95E-3	8.81E-3	7.40E-6	2.64E-4	1.74E-7	-1.14E-3	7.95E-3
ODP	kg CFC11 eq	8.99E-7	5.02E-9	7.73E-9	9.12E-7	4.82E-9	7.33E-8	2.47E-10	-4.55E-7	5.35E-7
AP	mol H+ eq	7.88E-3	1.32E-4	4.46E-4	8.46E-3	1.19E-4	1.24E-3	6.02E-6	-3.75E-3	6.07E-3
EP-fw	kg P eq	8.00E-5	2.29E-7	1.28E-6	8.15E-5	1.72E-7	8.85E-6	7.88E-9	-3.99E-5	5.06E-5
EP-m	kg N eq	1.41E-3	4.65E-5	1.05E-4	1.56E-3	4.26E-5	3.03E-4	3.73E-6	-6.70E-4	1.24E-3
EP-T	mol N eq	1.52E-2	5.13E-4	1.16E-3	1.69E-2	4.69E-4	3.34E-3	2.40E-5	-7.20E-3	1.35E-2
POCP	kg NMVOC eq	4.87E-3	1.46E-4	3.31E-4	5.34E-3	1.34E-4	9.99E-4	8.26E-6	-2.40E-3	4.09E-3
ADP-mm	kg Sb eq	1.65E-3	5.76E-7	2.55E-6	1.65E-3	5.41E-7	4.91E-6	6.04E-9	-1.88E-5	1.64E-3
ADP-f	MJ	4.10E+1	3.43E-1	8.18E-1	4.22E+1	3.21E-1	3.35E+0	1.81E-2	-2.23E+1	2.36E+1
WDP	m3 depriv.	2.72E+0	1.23E-3	6.33E-1	3.36E+0	9.85E-4	1.33E-1	1.17E-4	-1.40E+0	2.09E+0
PM	disease inc.	5.31E-8	2.04E-9	5.51E-9	6.07E-8	1.89E-9	1.53E-8	1.24E-10	-2.89E-8	4.91E-8
IR	kBq U-235 eq	9.40E-2	1.44E-3	1.30E-3	9.68E-2	1.40E-3	1.19E-2	8.31E-5	-4.65E-2	6.37E-2
ETP-fw	CTUe	5.05E+1	3.06E-1	1.90E+0	5.27E+1	2.61E-1	2.61E+1	2.89E-1	-1.85E+1	6.09E+1
HTP-c	CTUh	1.37E-9	9.92E-12	6.58E-11	1.45E-9	9.27E-12	3.72E-10	5.00E-13	-5.19E-10	1.31E-9
HTP-nc	CTUh	4.53E-8	3.35E-10	2.05E-9	4.77E-8	3.11E-10	9.03E-9	5.53E-11	-1.79E-8	3.91E-8
SQP	Pt	8.58E+0	2.98E-1	6.11E-2	8.94E+0	2.74E-1	2.04E+0	4.63E-2	-1.67E+1	-5.42E+0

Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.72E+0	4.30E-3	3.98E+0	6.70E+0	4.60E-3	2.43E-1	6.75E-4	-3.55E+0	3.40E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.72E+0	4.30E-3	3.98E+0	6.70E+0	4.60E-3	2.43E-1	6.75E-4	-3.55E+0	3.40E+0
PENRE	MJ	4.40E+1	3.64E-1	8.84E-1	4.53E+1	3.41E-1	3.56E+0	1.92E-2	-2.40E+1	2.52E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.40E+1	3.64E-1	8.84E-1	4.53E+1	3.41E-1	3.56E+0	1.92E-2	-2.40E+1	2.52E+1
PET	MJ	4.67E+1	3.69E-1	4.86E+0	5.20E+1	3.45E-1	3.81E+0	1.99E-2	-2.75E+1	2.86E+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	3.05E-2	4.18E-5	1.50E-2	4.55E-2	3.63E-5	3.64E-3	2.22E-5	-1.64E-2	3.28E-2
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.37E-4	8.69E-7	8.69E-7	2.38E-4	8.20E-7	5.48E-6	2.20E-8	-1.89E-5	2.26E-4
NHWD	kg	1.72E-1	2.18E-2	1.34E-3	1.95E-1	1.99E-2	1.21E-1	7.95E-2	-7.49E-2	3.40E-1
RWD	kg	8.17E-5	2.25E-6	1.61E-6	8.55E-5	2.18E-6	1.27E-5	1.18E-7	-4.13E-5	5.93E-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



Ecochain Technologies BV
H.J.E. Wenckebachweg 123, 1096 AM Amsterdam, The Netherlands
<https://www.ecochain.com>
+31 20 3035 777