

Environmental Profile

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

Ecochain v3.5.80



Product: 3003085 - Wadal PVC Solv.Cement Coupler GY 50
Unit: 1 piece
Manufacturer: Wavin - PL -Buk - Extra products

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: EN15804+A2 (2019)
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 - PL -Buk - Extra products (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 A5 Assembly / Construction installation process												D Reuse- Recovery- Recycling- potential				

Environmental impacts and parameters

GWP-total = EF EN15804+A2 Climate Change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF EN15804+A2 Climate Change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF EN15804+A2 Climate Change - Land use and LU change [kg CO2 eq]; **ODP** = EF Ozone depletion [kg CFC11 eq]; **AP** = EF Acidification [mol H+ eq]; **EP-fw** = EF Eutrophication, freshwater [kg P eq]; **EP-m** = EF Eutrophication, marine [kg N eq]; **EP-T** = EF Eutrophication, terrestrial [mol N eq]; **POCP** = EF Photochemical ozone formation [kg NMVOC eq]; **ADP-mm** = EF Resource use, minerals and metals [kg Sb eq]; **ADP-f** = EF Resource use, fossils [MJ]; **WDP** = EF Water use [m3 depriv.]; **PM** = EF Particulate matter [disease inc.]; **IR** = EF Ionising radiation [kBq U-235 eq]; **ETP-fw** = EF Ecotoxicity, freshwater [CTUe]; **HTP-c** = EF Human toxicity, cancer [CTUh]; **HTP-nc** = EF Human toxicity, non-cancer [CTUh]; **SQP** = EF Land use [Pt]; **PERE** = Use of renewable primary energy excluding renewable primary energy resources used as raw materials [MJ]; **PERM** = Use of renewable primary energy resources used as raw materials [MJ]; **PERT** = Total use of renewable primary energy resources [MJ]; **PENRE** = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials [MJ]; **PENRM** = Use of non-renewable primary energy resources used as raw materials [MJ]; **PENRT** = Total use of non-renewable primary energy resources [MJ]; **PET** = Total energy [MJ]; **SM** = Use of secondary material [kg]; **RSF** = Use of renewable secondary fuels [MJ]; **NRSF** = Use of non-renewable secondary fuels [MJ]; **FW** = Use of net fresh water [m3]; **HWD** = Hazardous waste disposed [kg]; **NHWD** = Non-hazardous waste disposed [kg]; **RWD** = Radioactive waste disposed [kg]; **CRU** = Components for re-use [kg]; **MFR** = Materials for recycling [kg]; **MER** = Materials for energy recovery [kg]; **EE** = Exported energy [MJ]; **EET** = Exported energy thermic [MJ]; **EEE** = Exported energy electric [MJ]

Statement of Confidentiality

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.19E-1	1.80E-3	1.45E-4	1.21E-1	1.55E-3	9.26E-2	5.00E-4	-7.59E-2	1.39E-1
GWP-f	kg CO2 eq	1.51E-1	1.79E-3	1.46E-4	1.53E-1	1.55E-3	5.66E-2	5.00E-4	-8.16E-2	1.30E-1
GWP-b	kg CO2 eq	-3.21E-2	1.09E-6	-1.54E-6	-3.21E-2	9.41E-7	3.60E-2	6.17E-7	5.78E-3	9.65E-3
GWP-luluc	kg CO2 eq	1.76E-4	6.35E-7	1.49E-7	1.76E-4	5.48E-7	1.94E-5	1.35E-8	-1.02E-4	9.39E-5
ODP	kg CFC11 eq	6.65E-8	4.13E-10	8.26E-12	6.69E-8	3.57E-10	5.35E-9	1.84E-11	-3.51E-8	3.75E-8
AP	mol H+ eq	7.35E-4	1.02E-5	1.47E-6	7.47E-4	8.82E-6	9.41E-5	4.50E-7	-3.17E-4	5.33E-4
EP-fw	kg P eq	6.90E-6	1.48E-8	8.24E-9	6.92E-6	1.27E-8	6.48E-7	6.03E-10	-3.22E-6	4.36E-6
EP-m	kg N eq	1.34E-4	3.66E-6	1.55E-7	1.37E-4	3.16E-6	2.37E-5	2.73E-7	-6.02E-5	1.04E-4
EP-T	mol N eq	1.46E-3	4.03E-5	1.85E-6	1.51E-3	3.48E-5	2.61E-4	1.79E-6	-6.56E-4	1.15E-3
POCP	kg NMVOC eq	4.86E-4	1.15E-5	6.28E-7	4.98E-4	9.95E-6	7.78E-5	6.17E-7	-2.22E-4	3.64E-4
ADP-mm	kg Sb eq	1.48E-4	4.64E-8	1.97E-8	1.48E-4	4.01E-8	3.66E-7	4.56E-10	-1.48E-6	1.47E-4
ADP-f	MJ	3.59E+0	2.75E-2	1.36E-3	3.61E+0	2.38E-2	2.51E-1	1.34E-3	-1.87E+0	2.02E+0
WDP	m3 depriv.	2.13E-1	8.45E-5	5.22E-5	2.13E-1	7.30E-5	9.65E-3	1.08E-5	-1.06E-1	1.16E-1
PM	disease inc.	5.61E-9	1.62E-10	9.08E-12	5.78E-9	1.40E-10	1.17E-9	9.26E-12	-2.81E-9	4.29E-9
IR	kBq U-235 eq	7.78E-3	1.20E-4	1.02E-6	7.90E-3	1.04E-4	8.89E-4	6.14E-6	-3.72E-3	5.18E-3
ETP-fw	CTUe	4.57E+0	2.24E-2	1.21E-2	4.61E+0	1.93E-2	1.88E+0	2.06E-2	-1.54E+0	4.98E+0
HTP-c	CTUh	1.40E-10	7.96E-13	6.17E-13	1.41E-10	6.87E-13	3.08E-11	3.86E-14	-5.12E-11	1.22E-10
HTP-nc	CTUh	4.01E-9	2.67E-11	1.57E-11	4.05E-9	2.30E-11	6.76E-10	3.98E-12	-1.40E-9	3.36E-9
SQP	Pt	3.54E+0	2.36E-2	2.24E-3	3.57E+0	2.03E-2	1.55E-1	3.44E-3	-3.63E+0	1.17E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.98E-1	3.95E-4	2.40E-2	9.23E-1	3.41E-4	1.78E-2	4.91E-5	-6.23E-1	3.18E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.98E-1	3.95E-4	2.40E-2	9.23E-1	3.41E-4	1.78E-2	4.91E-5	-6.23E-1	3.18E-1
PENRE	MJ	3.85E+0	2.92E-2	1.44E-3	3.88E+0	2.52E-2	2.67E-1	1.43E-3	-2.02E+0	2.15E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.85E+0	2.92E-2	1.44E-3	3.88E+0	2.52E-2	2.67E-1	1.43E-3	-2.02E+0	2.15E+0
PET	MJ	4.74E+0	2.96E-2	2.55E-2	4.80E+0	2.56E-2	2.84E-1	1.48E-3	-2.64E+0	2.47E+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	2.64E-3	3.12E-6	1.46E-6	2.64E-3	2.69E-6	2.67E-4	1.64E-6	-1.28E-3	1.63E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.12E-5	7.04E-8	2.73E-13	2.13E-5	6.08E-8	4.17E-7	1.66E-9	-1.77E-6	2.00E-5
NHWD	kg	1.65E-2	1.71E-3	1.05E-6	1.82E-2	1.47E-3	9.77E-3	5.89E-3	-6.96E-3	2.84E-2
RWD	kg	6.88E-6	1.87E-7	1.10E-13	7.07E-6	1.62E-7	9.63E-7	8.72E-9	-3.39E-6	4.81E-6
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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