

Environmental Profile

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

Ecochain v3.5.80



Product: 3003084 - Wadal PVC Solv.Cement Coupler GY 40
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	8.72E-2	1.30E-3	1.45E-4	8.86E-2	1.18E-3	8.14E-2	3.82E-4	-6.12E-2	1.10E-1
GWP-f	kg CO2 eq	1.20E-1	1.30E-3	1.46E-4	1.21E-1	1.18E-3	4.62E-2	3.82E-4	-6.50E-2	1.04E-1
GWP-b	kg CO2 eq	-3.25E-2	7.91E-7	-1.54E-6	-3.25E-2	7.17E-7	3.51E-2	4.70E-7	3.89E-3	6.51E-3
GWP-luluc	kg CO2 eq	1.37E-4	4.61E-7	1.49E-7	1.37E-4	4.18E-7	1.48E-5	1.03E-8	-7.83E-5	7.41E-5
ODP	kg CFC11 eq	5.08E-8	3.00E-10	8.26E-12	5.11E-8	2.72E-10	4.07E-9	1.40E-11	-2.70E-8	2.84E-8
AP	mol H+ eq	5.81E-4	7.42E-6	1.47E-6	5.90E-4	6.72E-6	7.22E-5	3.43E-7	-2.48E-4	4.21E-4
EP-fw	kg P eq	5.35E-6	1.07E-8	8.24E-9	5.37E-6	9.71E-9	4.94E-7	4.61E-10	-2.46E-6	3.41E-6
EP-m	kg N eq	1.06E-4	2.66E-6	1.55E-7	1.08E-4	2.41E-6	1.83E-5	2.08E-7	-4.78E-5	8.15E-5
EP-T	mol N eq	1.16E-3	2.93E-5	1.85E-6	1.19E-3	2.65E-5	2.02E-4	1.36E-6	-5.22E-4	8.98E-4
POCP	kg NMVOC eq	3.91E-4	8.37E-6	6.28E-7	4.00E-4	7.58E-6	6.00E-5	4.70E-7	-1.78E-4	2.90E-4
ADP-mm	kg Sb eq	9.93E-5	3.37E-8	1.97E-8	9.94E-5	3.05E-8	2.80E-7	3.48E-10	-1.14E-6	9.85E-5
ADP-f	MJ	2.84E+0	2.00E-2	1.36E-3	2.86E+0	1.81E-2	1.92E-1	1.03E-3	-1.48E+0	1.60E+0
WDP	m3 depriv.	1.64E-1	6.14E-5	5.22E-5	1.65E-1	5.56E-5	7.34E-3	8.38E-6	-8.08E-2	9.12E-2
PM	disease inc.	4.56E-9	1.18E-10	9.08E-12	4.69E-9	1.07E-10	8.96E-10	7.06E-12	-2.25E-9	3.45E-9
IR	kBq U-235 eq	6.03E-3	8.75E-5	1.02E-6	6.11E-3	7.92E-5	6.80E-4	4.68E-6	-2.86E-3	4.01E-3
ETP-fw	CTUe	3.38E+0	1.62E-2	1.21E-2	3.41E+0	1.47E-2	1.43E+0	1.57E-2	-1.17E+0	3.70E+0
HTP-c	CTUh	1.09E-10	5.78E-13	6.17E-13	1.10E-10	5.24E-13	2.40E-11	2.95E-14	-4.17E-11	9.31E-11
HTP-nc	CTUh	3.02E-9	1.94E-11	1.57E-11	3.06E-9	1.75E-11	5.18E-10	3.03E-12	-1.07E-9	2.53E-9
SQP	Pt	3.35E+0	1.71E-2	2.24E-3	3.37E+0	1.55E-2	1.19E-1	2.62E-3	-3.23E+0	2.77E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.58E-1	2.87E-4	2.40E-2	7.82E-1	2.60E-4	1.36E-2	3.73E-5	-5.42E-1	2.55E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.58E-1	2.87E-4	2.40E-2	7.82E-1	2.60E-4	1.36E-2	3.73E-5	-5.42E-1	2.55E-1
PENRE	MJ	3.05E+0	2.12E-2	1.44E-3	3.07E+0	1.92E-2	2.04E-1	1.09E-3	-1.59E+0	1.70E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.05E+0	2.12E-2	1.44E-3	3.07E+0	1.92E-2	2.04E-1	1.09E-3	-1.59E+0	1.70E+0
PET	MJ	3.81E+0	2.15E-2	2.55E-2	3.85E+0	1.95E-2	2.17E-1	1.13E-3	-2.13E+0	1.96E+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	2.07E-3	2.26E-6	1.46E-6	2.07E-3	2.05E-6	2.04E-4	1.25E-6	-9.69E-4	1.31E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.45E-5	5.12E-8	2.73E-13	1.45E-5	4.63E-8	3.20E-7	1.26E-9	-1.43E-6	1.35E-5
NHWD	kg	1.32E-2	1.24E-3	1.05E-6	1.44E-2	1.12E-3	7.62E-3	4.49E-3	-5.59E-3	2.21E-2
RWD	kg	5.35E-6	1.36E-7	1.10E-13	5.49E-6	1.23E-7	7.38E-7	6.64E-9	-2.63E-6	3.73E-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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