

Environmental Profile

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

Ecochain v3.5.80



Product: 3003202 - Wadal PVC Cleaning Rod GY 110 S/SP
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	1.27E+0	1.98E-2	1.45E-4	1.29E+0	1.64E-2	8.05E-1	5.34E-3	-7.22E-1	1.39E+0
GWP-f	kg CO2 eq	1.48E+0	1.98E-2	1.46E-4	1.50E+0	1.63E-2	5.38E-1	5.34E-3	-7.95E-1	1.27E+0
GWP-b	kg CO2 eq	-2.19E-1	1.20E-5	-1.54E-6	-2.19E-1	9.93E-6	2.67E-1	6.67E-6	7.42E-2	1.22E-1
GWP-luluc	kg CO2 eq	1.76E-3	7.00E-6	1.49E-7	1.76E-3	5.78E-6	2.04E-4	1.39E-7	-1.11E-3	8.66E-4
ODP	kg CFC11 eq	7.17E-7	4.56E-9	8.26E-12	7.22E-7	3.77E-9	5.69E-8	1.97E-10	-3.60E-7	4.23E-7
AP	mol H+ eq	7.20E-3	1.13E-4	1.47E-6	7.31E-3	9.31E-5	9.84E-4	4.79E-6	-3.21E-3	5.18E-3
EP-fw	kg P eq	6.90E-5	1.63E-7	8.24E-9	6.92E-5	1.34E-7	6.85E-6	6.29E-9	-3.38E-5	4.24E-5
EP-m	kg N eq	1.31E-3	4.03E-5	1.55E-7	1.35E-3	3.33E-5	2.45E-4	3.16E-6	-6.01E-4	1.03E-3
EP-T	mol N eq	1.41E-2	4.44E-4	1.85E-6	1.46E-2	3.67E-4	2.70E-3	1.91E-5	-6.54E-3	1.11E-2
POCP	kg NMVOC eq	4.66E-3	1.27E-4	6.28E-7	4.79E-3	1.05E-4	8.04E-4	6.59E-6	-2.18E-3	3.52E-3
ADP-mm	kg Sb eq	1.31E-3	5.12E-7	1.97E-8	1.31E-3	4.23E-7	3.85E-6	4.81E-9	-1.58E-5	1.30E-3
ADP-f	MJ	3.58E+1	3.04E-1	1.36E-3	3.61E+1	2.51E-1	2.62E+0	1.44E-2	-1.86E+1	2.04E+1
WDP	m3 depriv.	2.18E+0	9.32E-4	5.22E-5	2.18E+0	7.70E-4	1.03E-1	9.52E-5	-1.12E+0	1.17E+0
PM	disease inc.	5.48E-8	1.79E-9	9.08E-12	5.66E-8	1.48E-9	1.21E-8	9.89E-11	-2.83E-8	4.20E-8
IR	kBq U-235 eq	8.19E-2	1.33E-3	1.02E-6	8.33E-2	1.10E-3	9.32E-3	6.61E-5	-3.87E-2	5.51E-2
ETP-fw	CTUe	4.59E+1	2.47E-1	1.21E-2	4.62E+1	2.04E-1	2.02E+1	2.22E-1	-1.65E+1	5.03E+1
HTP-c	CTUh	1.32E-9	8.78E-12	6.17E-13	1.33E-9	7.25E-12	2.99E-10	3.99E-13	-4.96E-10	1.14E-9
HTP-nc	CTUh	3.96E-8	2.94E-10	1.57E-11	3.99E-8	2.43E-10	7.06E-9	4.28E-11	-1.49E-8	3.23E-8
SQP	Pt	2.77E+1	2.60E-1	2.24E-3	2.80E+1	2.15E-1	1.60E+0	3.68E-2	-3.23E+1	-2.50E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.86E+0	4.36E-3	2.40E-2	8.89E+0	3.60E-3	1.88E-1	5.39E-4	-5.74E+0	3.34E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.86E+0	4.36E-3	2.40E-2	8.89E+0	3.60E-3	1.88E-1	5.39E-4	-5.74E+0	3.34E+0
PENRE	MJ	3.84E+1	3.22E-1	1.44E-3	3.87E+1	2.66E-1	2.79E+0	1.53E-2	-2.00E+1	2.18E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.84E+1	3.22E-1	1.44E-3	3.87E+1	2.66E-1	2.79E+0	1.53E-2	-2.00E+1	2.18E+1
PET	MJ	4.73E+1	3.27E-1	2.55E-2	4.76E+1	2.70E-1	2.98E+0	1.58E-2	-2.57E+1	2.51E+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	2.59E-2	3.44E-5	1.46E-6	2.59E-2	2.84E-5	2.88E-3	1.76E-5	-1.36E-2	1.52E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.88E-4	7.77E-7	2.73E-13	1.89E-4	6.42E-7	4.36E-6	1.75E-8	-1.68E-5	1.77E-4
NHWD	kg	1.58E-1	1.88E-2	1.05E-6	1.77E-1	1.56E-2	9.77E-2	6.31E-2	-6.84E-2	2.85E-1
RWD	kg	7.47E-5	2.07E-6	1.10E-13	7.68E-5	1.71E-6	1.01E-5	9.35E-8	-3.50E-5	5.36E-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



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