

Environmental Profile

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

Ecochain v3.5.80



Product: 3003243 - Wadal PVC Reducer bush GY 160x125
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	7.60E-1	1.14E-2	1.45E-4	7.72E-1	9.88E-3	4.07E-1	3.14E-3	-4.31E-1	7.61E-1
GWP-f	kg CO2 eq	8.50E-1	1.14E-2	1.46E-4	8.62E-1	9.87E-3	2.93E-1	3.13E-3	-4.59E-1	7.09E-1
GWP-b	kg CO2 eq	-9.11E-2	6.92E-6	-1.54E-6	-9.11E-2	5.99E-6	1.13E-1	3.96E-6	2.86E-2	5.10E-2
GWP-luluc	kg CO2 eq	9.27E-4	4.03E-6	1.49E-7	9.31E-4	3.49E-6	1.25E-4	8.25E-8	-5.41E-4	5.19E-4
ODP	kg CFC11 eq	4.30E-7	2.63E-9	8.26E-12	4.33E-7	2.27E-9	3.46E-8	1.17E-10	-2.17E-7	2.52E-7
AP	mol H+ eq	4.07E-3	6.49E-5	1.47E-6	4.14E-3	5.62E-5	5.89E-4	2.84E-6	-1.84E-3	2.95E-3
EP-fw	kg P eq	3.96E-5	9.38E-8	8.24E-9	3.97E-5	8.12E-8	4.18E-6	3.73E-9	-1.89E-5	2.50E-5
EP-m	kg N eq	7.25E-4	2.32E-5	1.55E-7	7.49E-4	2.01E-5	1.45E-4	1.76E-6	-3.36E-4	5.79E-4
EP-T	mol N eq	7.88E-3	2.56E-4	1.85E-6	8.14E-3	2.22E-4	1.59E-3	1.13E-5	-3.63E-3	6.33E-3
POCP	kg NMVOC eq	2.57E-3	7.32E-5	6.28E-7	2.65E-3	6.34E-5	4.76E-4	3.90E-6	-1.23E-3	1.97E-3
ADP-mm	kg Sb eq	7.45E-4	2.95E-7	1.97E-8	7.45E-4	2.55E-7	2.32E-6	2.85E-9	-9.07E-6	7.38E-4
ADP-f	MJ	2.06E+1	1.75E-1	1.36E-3	2.08E+1	1.51E-1	1.59E+0	8.54E-3	-1.09E+1	1.16E+1
WDP	m3 depriv.	1.31E+0	5.37E-4	5.22E-5	1.31E+0	4.65E-4	6.27E-2	5.61E-5	-6.58E-1	7.14E-1
PM	disease inc.	2.90E-8	1.03E-9	9.08E-12	3.00E-8	8.91E-10	7.27E-9	5.88E-11	-1.49E-8	2.33E-8
IR	kBq U-235 eq	4.60E-2	7.65E-4	1.02E-6	4.68E-2	6.62E-4	5.62E-3	3.92E-5	-2.23E-2	3.09E-2
ETP-fw	CTUe	2.47E+1	1.42E-1	1.21E-2	2.49E+1	1.23E-1	1.23E+1	1.36E-1	-8.64E+0	2.88E+1
HTP-c	CTUh	7.54E-10	5.06E-12	6.17E-13	7.60E-10	4.38E-12	1.79E-10	2.36E-13	-2.78E-10	6.66E-10
HTP-nc	CTUh	2.32E-8	1.69E-10	1.57E-11	2.34E-8	1.47E-10	4.28E-9	2.61E-11	-8.66E-9	1.92E-8
SQP	Pt	1.25E+1	1.50E-1	2.24E-3	1.27E+1	1.30E-1	9.69E-1	2.19E-2	-1.38E+1	2.31E-2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.68E+0	2.51E-3	2.40E-2	4.71E+0	2.17E-3	1.15E-1	3.18E-4	-2.52E+0	2.31E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.68E+0	2.51E-3	2.40E-2	4.71E+0	2.17E-3	1.15E-1	3.18E-4	-2.52E+0	2.31E+0
PENRE	MJ	2.21E+1	1.86E-1	1.44E-3	2.23E+1	1.61E-1	1.69E+0	9.06E-3	-1.17E+1	1.24E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.21E+1	1.86E-1	1.44E-3	2.23E+1	1.61E-1	1.69E+0	9.06E-3	-1.17E+1	1.24E+1
PET	MJ	2.68E+1	1.88E-1	2.55E-2	2.70E+1	1.63E-1	1.80E+0	9.38E-3	-1.42E+1	1.47E+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	1.50E-2	1.98E-5	1.46E-6	1.50E-2	1.71E-5	1.72E-3	1.05E-5	-7.65E-3	9.12E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.08E-4	4.47E-7	2.73E-13	1.09E-4	3.87E-7	2.60E-6	1.04E-8	-9.59E-6	1.02E-4
NHWD	kg	8.92E-2	1.08E-2	1.05E-6	1.00E-1	9.39E-3	5.81E-2	3.75E-2	-3.88E-2	1.66E-1
RWD	kg	4.05E-5	1.19E-6	1.10E-13	4.17E-5	1.03E-6	6.03E-6	5.55E-8	-2.00E-5	2.89E-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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