

Environmental Profile

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

Ecochain v3.5.80



Product: 3003211 - Wadal PVC Adaptor PVC/Metal GY 40x40
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	1.44E-1	2.02E-3	1.45E-4	1.46E-1	1.63E-3	1.21E-1	6.13E-4	-8.43E-2	1.84E-1
GWP-f	kg CO2 eq	1.76E-1	2.01E-3	1.46E-4	1.78E-1	1.63E-3	8.45E-2	6.12E-4	-9.00E-2	1.75E-1
GWP-b	kg CO2 eq	-3.27E-2	1.22E-6	-1.54E-6	-3.27E-2	9.91E-7	3.60E-2	7.23E-7	5.82E-3	9.16E-3
GWP-luluc	kg CO2 eq	1.96E-4	7.13E-7	1.49E-7	1.96E-4	5.78E-7	1.86E-5	1.56E-8	-1.01E-4	1.14E-4
ODP	kg CFC11 eq	7.10E-8	4.64E-10	8.26E-12	7.14E-8	3.76E-10	5.14E-9	2.12E-11	-3.48E-8	4.22E-8
AP	mol H+ eq	8.91E-4	1.15E-5	1.47E-6	9.04E-4	9.30E-6	9.44E-5	5.20E-7	-3.17E-4	6.91E-4
EP-fw	kg P eq	7.69E-6	1.66E-8	8.24E-9	7.71E-6	1.34E-8	6.23E-7	6.97E-10	-3.14E-6	5.21E-6
EP-m	kg N eq	1.57E-4	4.11E-6	1.55E-7	1.62E-4	3.33E-6	2.44E-5	4.34E-7	-6.13E-5	1.28E-4
EP-T	mol N eq	1.74E-3	4.52E-5	1.85E-6	1.79E-3	3.67E-5	2.69E-4	2.07E-6	-6.70E-4	1.43E-3
POCP	kg NMVOC eq	6.14E-4	1.29E-5	6.28E-7	6.27E-4	1.05E-5	7.91E-5	7.20E-7	-2.28E-4	4.90E-4
ADP-mm	kg Sb eq	1.61E-4	5.21E-8	1.97E-8	1.61E-4	4.22E-8	3.55E-7	5.24E-10	-1.83E-6	1.59E-4
ADP-f	MJ	4.31E+0	3.09E-2	1.36E-3	4.34E+0	2.51E-2	2.44E-1	1.55E-3	-2.00E+0	2.61E+0
WDP	m3 depriv.	2.21E-1	9.49E-5	5.22E-5	2.21E-1	7.69E-5	9.54E-3	1.18E-5	-1.02E-1	1.29E-1
PM	disease inc.	7.69E-9	1.82E-10	9.08E-12	7.88E-9	1.47E-10	1.14E-9	1.07E-11	-2.82E-9	6.36E-9
IR	kBq U-235 eq	1.03E-2	1.35E-4	1.02E-6	1.04E-2	1.09E-4	8.61E-4	7.16E-6	-3.72E-3	7.70E-3
ETP-fw	CTUe	5.17E+0	2.51E-2	1.21E-2	5.21E+0	2.03E-2	1.83E+0	2.01E-2	-1.53E+0	5.56E+0
HTP-c	CTUh	1.54E-10	8.93E-13	6.17E-13	1.55E-10	7.24E-13	2.98E-11	4.41E-14	-5.07E-11	1.35E-10
HTP-nc	CTUh	4.30E-9	2.99E-11	1.57E-11	4.34E-9	2.43E-11	6.65E-10	4.00E-12	-1.36E-9	3.68E-9
SQP	Pt	3.71E+0	2.65E-2	2.24E-3	3.74E+0	2.14E-2	1.50E-1	3.96E-3	-3.63E+0	2.85E-1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	9.42E-1	4.44E-4	2.40E-2	9.66E-1	3.59E-4	1.72E-2	5.92E-5	-6.21E-1	3.63E-1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	9.42E-1	4.44E-4	2.40E-2	9.66E-1	3.59E-4	1.72E-2	5.92E-5	-6.21E-1	3.63E-1
PENRE	MJ	4.61E+0	3.28E-2	1.44E-3	4.65E+0	2.66E-2	2.60E-1	1.65E-3	-2.16E+0	2.77E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.61E+0	3.28E-2	1.44E-3	4.65E+0	2.66E-2	2.60E-1	1.65E-3	-2.16E+0	2.77E+0
PET	MJ	5.56E+0	3.33E-2	2.55E-2	5.62E+0	2.70E-2	2.77E-1	1.71E-3	-2.78E+0	3.14E+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	3.03E-3	3.50E-6	1.46E-6	3.04E-3	2.83E-6	2.95E-4	1.90E-6	-1.26E-3	2.08E-3

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.16E-5	7.91E-8	2.73E-13	2.17E-5	6.41E-8	4.25E-7	1.90E-9	-1.94E-6	2.03E-5
NHWD	kg	1.90E-2	1.92E-3	1.05E-6	2.10E-2	1.55E-3	1.01E-2	6.79E-3	-6.84E-3	3.25E-2
RWD	kg	1.05E-5	2.10E-7	1.10E-13	1.07E-5	1.70E-7	9.37E-7	1.01E-8	-3.46E-6	8.33E-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



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