

Environmental Profile

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

Ecochain v3.5.80



Product: 4005884 - PVC Branch 87°3 GY 110 S/S/S BC
Unit: 1 piece
Manufacturer: Wavin - PL -Buk - Extra products

With the PVC range to be glued Wavin, you benefit from a complete choice of pipes and fittings 100% compatible, in all standard sizes on the market, from 32 to 315mm. This system includes a wide range of special accessories: branch saddles, flexible connectors, etc. Certified quality: Wavin glue-on PVC products benefit from the necessary certifications in France (NF-E).

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	1.03E+0	9.72E-2	1.45E-4	1.13E+0	1.38E-2	6.95E-1	4.29E-3	-6.13E-1	1.23E+0
GWP-f	kg CO2 eq	1.25E+0	9.71E-2	1.46E-4	1.35E+0	1.38E-2	4.29E-1	4.29E-3	-6.83E-1	1.11E+0
GWP-b	kg CO2 eq	-2.22E-1	5.89E-5	-1.54E-6	-2.22E-1	8.38E-6	2.66E-1	5.58E-6	7.15E-2	1.16E-1
GWP-luluc	kg CO2 eq	1.42E-3	3.44E-5	1.49E-7	1.46E-3	4.88E-6	1.80E-4	1.08E-7	-1.02E-3	6.21E-4
ODP	kg CFC11 eq	6.32E-7	2.24E-8	8.26E-12	6.55E-7	3.18E-9	5.08E-8	1.63E-10	-3.09E-7	4.00E-7
AP	mol H+ eq	5.73E-3	5.53E-4	1.47E-6	6.29E-3	7.86E-5	8.64E-4	3.94E-6	-2.81E-3	4.42E-3
EP-fw	kg P eq	5.56E-5	7.99E-7	8.24E-9	5.64E-5	1.14E-7	6.06E-6	4.99E-9	-2.98E-5	3.28E-5
EP-m	kg N eq	1.05E-3	1.98E-4	1.55E-7	1.24E-3	2.81E-5	2.14E-4	2.51E-6	-5.30E-4	9.60E-4
EP-T	mol N eq	1.11E-2	2.18E-3	1.85E-6	1.33E-2	3.10E-4	2.36E-3	1.58E-5	-5.77E-3	1.02E-2
POCP	kg NMVOC eq	3.75E-3	6.23E-4	6.28E-7	4.38E-3	8.86E-5	7.03E-4	5.41E-6	-1.92E-3	3.25E-3
ADP-mm	kg Sb eq	3.38E-5	2.51E-6	1.97E-8	3.64E-5	3.57E-7	3.39E-6	3.89E-9	-1.31E-5	2.70E-5
ADP-f	MJ	3.06E+1	1.49E+0	1.36E-3	3.21E+1	2.12E-1	2.30E+0	1.19E-2	-1.59E+1	1.87E+1
WDP	m3 depriv.	1.89E+0	4.57E-3	5.22E-5	1.89E+0	6.50E-4	9.11E-2	5.43E-5	-9.69E-1	1.02E+0
PM	disease inc.	4.45E-8	8.76E-9	9.08E-12	5.33E-8	1.25E-9	1.06E-8	8.18E-11	-2.55E-8	3.97E-8
IR	kBq U-235 eq	6.51E-2	6.51E-3	1.02E-6	7.16E-2	9.25E-4	8.21E-3	5.50E-5	-3.37E-2	4.71E-2
ETP-fw	CTUe	3.00E+1	1.21E+0	1.21E-2	3.13E+1	1.72E-1	1.81E+1	1.99E-1	-1.48E+1	3.49E+1
HTP-c	CTUh	9.12E-10	4.31E-11	6.17E-13	9.56E-10	6.12E-12	2.47E-10	3.13E-13	-4.41E-10	7.68E-10
HTP-nc	CTUh	2.75E-8	1.44E-9	1.57E-11	2.89E-8	2.05E-10	6.21E-9	3.78E-11	-1.30E-8	2.24E-8
SQP	Pt	2.64E+1	1.27E+0	2.24E-3	2.77E+1	1.81E-1	1.39E+0	3.05E-2	-3.14E+1	-2.17E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	7.89E+0	2.14E-2	2.40E-2	7.93E+0	3.04E-3	1.66E-1	4.56E-4	-5.53E+0	2.58E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	7.89E+0	2.14E-2	2.40E-2	7.93E+0	3.04E-3	1.66E-1	4.56E-4	-5.53E+0	2.58E+0
PENRE	MJ	3.28E+1	1.58E+0	1.44E-3	3.44E+1	2.25E-1	2.44E+0	1.26E-2	-1.72E+1	1.99E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.28E+1	1.58E+0	1.44E-3	3.44E+1	2.25E-1	2.44E+0	1.26E-2	-1.72E+1	1.99E+1
PET	MJ	4.07E+1	1.60E+0	2.55E-2	4.24E+1	2.28E-1	2.61E+0	1.31E-2	-2.27E+1	2.25E+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	2.11E-2	1.69E-4	1.46E-6	2.13E-2	2.40E-5	2.51E-3	1.47E-5	-1.20E-2	1.18E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.56E-5	3.81E-6	2.73E-13	2.94E-5	5.41E-7	3.79E-6	1.43E-8	-1.46E-5	1.92E-5
NHWD	kg	1.31E-1	9.24E-2	1.05E-6	2.23E-1	1.31E-2	8.42E-2	5.25E-2	-6.05E-2	3.13E-1
RWD	kg	5.84E-5	1.01E-5	1.10E-13	6.86E-5	1.44E-6	8.82E-6	7.76E-8	-3.06E-5	4.84E-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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