

Environmental Profile

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

Ecochain v3.5.71



Product: 3038016 - TB PB SHC Barr Pipe 200m Coil BN 16mm
Unit: 1 piece
Manufacturer: Wavin - UK - Doncaster - Verified

LCA standard: EN15804+A2 (2019)
Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
Externally verified: Yes
Issue date: 09-02-2023
End of validity: 09-02-2028
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 - UK - Doncaster - Verified (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	6.39E+1	1.43E+0	8.13E+0	7.35E+1	4.38E-1	1.67E+1	1.91E-1	-3.83E+1	5.25E+1
GWP-f	kg CO2 eq	6.59E+1	1.43E+0	7.56E+0	7.49E+1	4.38E-1	1.27E+1	1.91E-1	-3.64E+1	5.18E+1
GWP-b	kg CO2 eq	-1.96E+0	8.13E-4	5.75E-1	-1.39E+0	2.66E-4	3.98E+0	1.91E-4	-1.92E+0	6.76E-1
GWP-luluc	kg CO2 eq	5.26E-3	5.25E-4	2.94E-3	8.72E-3	1.55E-4	1.63E-3	3.70E-6	-4.70E-4	1.00E-2
ODP	kg CFC11 eq	4.40E-7	3.28E-7	8.56E-7	1.62E-6	1.01E-7	3.36E-7	5.20E-9	-5.58E-7	1.51E-6
AP	mol H+ eq	3.73E-1	1.00E-2	1.86E-2	4.01E-1	2.50E-3	1.28E-2	1.29E-4	-1.80E-1	2.36E-1
EP-fw	kg P eq	2.19E-4	1.15E-5	5.40E-5	2.85E-4	3.60E-6	6.25E-5	1.70E-7	-3.34E-5	3.18E-4
EP-m	kg N eq	4.91E-2	3.34E-3	3.93E-3	5.64E-2	8.93E-4	3.85E-3	2.37E-4	-2.41E-2	3.73E-2
EP-T	mol N eq	5.52E-1	3.68E-2	3.81E-2	6.27E-1	9.84E-3	4.19E-2	5.12E-4	-2.63E-1	4.16E-1
POCP	kg NMVOC eq	2.90E-1	1.04E-2	1.23E-2	3.12E-1	2.81E-3	1.25E-2	1.87E-4	-1.44E-1	1.84E-1
ADP-mm	kg Sb eq	6.60E-4	3.57E-5	8.00E-5	7.75E-4	1.13E-5	5.05E-5	1.26E-7	-8.20E-6	8.29E-4
ADP-f	MJ	1.49E+3	2.18E+1	1.06E+2	1.62E+3	6.72E+0	3.92E+1	3.82E-1	-7.97E+2	8.67E+2
WDP	m3 depriv.	1.01E+1	6.54E-2	1.06E+0	1.12E+1	2.06E-2	8.37E-1	1.77E-3	-3.58E+0	8.48E+0
PM	disease inc.	3.23E-6	1.25E-7	1.37E-7	3.49E-6	3.95E-8	1.91E-7	2.61E-9	-1.53E-6	2.20E-6
IR	kBq U-235 eq	1.90E-1	9.52E-2	9.11E-2	3.76E-1	2.94E-2	1.21E-1	1.84E-3	-3.89E-2	4.89E-1
ETP-fw	CTUe	1.42E+2	1.75E+1	9.68E+1	2.57E+2	5.46E+0	6.00E+1	7.86E-1	-2.62E+1	2.97E+2
HTP-c	CTUh	9.69E-9	6.41E-10	4.01E-9	1.43E-8	1.94E-10	5.45E-9	1.01E-11	-2.51E-9	1.75E-8
HTP-nc	CTUh	2.05E-7	2.07E-8	8.47E-8	3.10E-7	6.51E-9	7.31E-8	3.20E-10	-5.91E-8	3.31E-7
SQP	Pt	2.25E+2	1.80E+1	1.35E+1	2.56E+2	5.75E+0	-1.14E+2	9.71E-1	-1.09E+1	1.39E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.77E+1	3.06E-1	1.90E+2	2.28E+2	9.65E-2	-1.93E+1	1.75E-2	-5.51E+0	2.04E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.77E+1	3.06E-1	1.90E+2	2.28E+2	9.65E-2	-1.93E+1	1.75E-2	-5.51E+0	2.04E+2
PENRE	MJ	1.60E+3	2.31E+1	1.16E+2	1.74E+3	7.14E+0	4.17E+1	4.05E-1	-8.59E+2	9.30E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.60E+3	2.31E+1	1.16E+2	1.74E+3	7.14E+0	4.17E+1	4.05E-1	-8.59E+2	9.30E+2
PET	MJ	1.64E+3	2.35E+1	3.07E+2	1.97E+3	7.24E+0	2.25E+1	4.23E-1	-8.65E+2	1.13E+3
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	2.33E-1	2.41E-3	3.18E-2	2.68E-1	7.61E-4	2.44E-2	4.76E-4	-7.99E-2	2.13E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.53E-4	5.43E-5	1.11E-4	3.18E-4	1.72E-5	6.16E-5	4.56E-7	-1.08E-4	2.89E-4
NHWD	kg	1.90E+0	1.30E+0	5.19E-1	3.72E+0	4.17E-1	2.09E+0	1.67E+0	-3.75E-1	7.51E+0
RWD	kg	1.86E-4	1.48E-4	8.40E-5	4.18E-4	4.57E-5	1.52E-4	2.52E-6	-4.68E-5	5.72E-4
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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