

Environmental Profile

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

Ecochain v3.5.80



Product: 3085266 - PP Vent. Endcap Fitting 235x80
Unit: 1 piece
Manufacturer: Wavin - NL - Hardenberg - Verified
Address: J.C. Kellerlaan 3
7772 SG Hardenberg
Netherlands

LCA standard: NMD Bepalingsmethode 1.1 (2022)
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



With the new Ventiza air distribution system, Wavin offers a solution from the ventilation to the valve. A good indoor climate is arranged in no time!

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 - NL - Hardenberg - 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

ECI = Environmental Costs Indicator [euro]; **ADPE** = Abiotic depletion potential for non-fossil resources [kg Sb-eq]; **ADPF** = Abiotic depletion potential for fossil resources [kg Sb-eq]; **GWP** = Global warming potential [kg CO2-eq]; **ODP** = Depletion potential of the stratospheric ozone layer [kg CFC-11-eq]; **POCP** = Formation potential of tropospheric ozone photochemical oxidants [kg ethene-eq]; **AP** = Acidification potential of land and water [kg SO2-eq]; **EP** = Eutrophication potential [kg PO4 3--eq]; **HTP** = Human toxicity potential [kg 1,4-DB-eq]; **FAETP** = Freshwater aquatic ecotoxicity potential [kg 1,4-DB-eq]; **MAETP** = Marine aquatic ecotoxicity potential [kg 1,4-DB-eq]; **TETP** = Terrestrial ecotoxicity potential [kg 1,4-DB-eq]; **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 SBK set 1	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
ECI	euro	0.01	0	0	0.01	0	0	0	-0	0.01
ADPE	kg Sb-eq	9.17E-7	3.50E-8	1.29E-7	1.08E-6	2.45E-8	1.32E-7	2.72E-10	-3.60E-7	8.78E-7
ADPF	kg Sb-eq	1.29E-3	1.01E-5	2.21E-5	1.32E-3	6.90E-6	4.83E-5	3.78E-7	-6.95E-4	6.79E-4
GWP	kg CO2-eq	7.59E-2	1.37E-3	4.19E-3	8.14E-2	9.40E-4	2.80E-2	3.81E-4	-4.65E-2	6.43E-2
ODP	kg CFC-11-eq	3.06E-9	2.43E-10	3.31E-10	3.63E-9	1.74E-10	6.76E-10	9.04E-12	-2.64E-9	1.85E-9
POCP	kg ethene-eq	6.05E-5	8.25E-7	1.82E-6	6.31E-5	5.64E-7	5.01E-6	8.68E-8	-3.14E-5	3.74E-5
AP	kg SO2-eq	2.41E-4	6.02E-6	1.80E-5	2.65E-4	4.05E-6	2.54E-5	2.00E-7	-1.33E-4	1.62E-4
EP	kg PO4 3--eq	2.73E-5	1.18E-6	2.32E-6	3.08E-5	8.08E-7	4.56E-6	8.66E-8	-1.79E-5	1.84E-5
HTP	kg 1,4-DB-eq	1.30E-2	5.76E-4	1.95E-3	1.55E-2	4.02E-4	9.67E-3	2.98E-5	-7.46E-3	1.82E-2
FAETP	kg 1,4-DB-eq	5.16E-4	1.68E-5	6.65E-5	5.99E-4	1.18E-5	2.08E-4	3.22E-5	-3.32E-4	5.19E-4
MAETP	kg 1,4-DB-eq	8.80E-1	6.05E-2	2.62E-1	1.20E+0	4.21E-2	5.16E-1	3.21E-2	-4.67E-1	1.33E+0
TETP	kg 1,4-DB-eq	7.13E-5	2.04E-6	1.45E-4	2.18E-4	1.42E-6	2.92E-5	4.89E-8	-9.87E-5	1.50E-4
Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	7.93E-2	1.38E-3	4.80E-3	8.55E-2	9.48E-4	3.16E-2	4.46E-4	-4.02E-2	7.82E-2
GWP-f	kg CO2 eq	7.88E-2	1.38E-3	3.69E-3	8.39E-2	9.48E-4	2.81E-2	4.47E-4	-4.81E-2	6.53E-2
GWP-b	kg CO2 eq	4.37E-4	6.37E-7	7.61E-4	1.20E-3	5.75E-7	3.47E-3	3.88E-7	7.88E-3	1.25E-2
GWP-luluc	kg CO2 eq	6.23E-5	5.06E-7	3.50E-4	4.13E-4	3.35E-7	5.53E-6	7.76E-9	-6.49E-5	3.54E-4
ODP	kg CFC11 eq	3.31E-9	3.05E-10	3.90E-10	4.00E-9	2.18E-10	8.01E-10	1.12E-11	-2.72E-9	2.32E-9
AP	mol H+ eq	2.95E-4	8.00E-6	2.25E-5	3.26E-4	5.40E-6	3.29E-5	2.68E-7	-1.62E-4	2.02E-4
EP-fw	kg P eq	1.50E-6	1.39E-8	6.46E-8	1.58E-6	7.80E-9	1.62E-7	3.54E-10	-1.21E-6	5.41E-7
EP-m	kg N eq	5.56E-5	2.82E-6	5.31E-6	6.38E-5	1.93E-6	9.87E-6	1.73E-7	-3.06E-5	4.51E-5
EP-T	mol N eq	5.99E-4	3.11E-5	5.85E-5	6.89E-4	2.13E-5	1.08E-4	1.09E-6	-3.43E-4	4.77E-4
POCP	kg NMVOC eq	2.48E-4	8.87E-6	1.67E-5	2.73E-4	6.08E-6	3.41E-5	4.08E-7	-1.36E-4	1.78E-4
ADP-mm	kg Sb eq	9.16E-7	3.50E-8	1.29E-7	1.08E-6	2.45E-8	1.32E-7	2.72E-10	-3.59E-7	8.76E-7
ADP-f	MJ	2.70E+0	2.08E-2	4.12E-2	2.76E+0	1.45E-2	9.96E-2	8.19E-4	-1.45E+0	1.43E+0
WDP	m3 depriv.	5.18E-2	7.44E-5	3.19E-2	8.38E-2	4.46E-5	1.87E-3	4.71E-6	-3.65E-2	4.93E-2
PM	disease inc.	3.02E-9	1.24E-10	2.77E-10	3.42E-9	8.55E-11	5.37E-10	5.63E-12	-1.79E-9	2.26E-9
IR	kBq U-235 eq	1.92E-3	8.72E-5	6.55E-5	2.07E-3	6.36E-5	3.10E-4	3.79E-6	-1.17E-3	1.28E-3
ETP-fw	CTUe	1.38E+0	1.86E-2	9.57E-2	1.49E+0	1.18E-2	1.18E-1	6.86E-4	-7.89E-1	8.33E-1
HTP-c	CTUh	1.92E-11	6.02E-13	3.31E-12	2.31E-11	4.20E-13	1.40E-11	2.04E-14	-1.24E-11	2.52E-11
HTP-nc	CTUh	5.51E-10	2.03E-11	1.03E-10	6.75E-10	1.41E-11	1.68E-10	4.44E-13	-3.81E-10	4.77E-10
SQP	Pt	4.10E-1	1.81E-2	3.08E-3	4.31E-1	1.24E-2	7.78E-2	2.10E-3	-1.48E+0	-9.55E-1

Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.02E-1	2.60E-4	2.00E-1	3.03E-1	2.09E-4	4.77E-3	3.14E-5	-2.79E-1	2.89E-2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.02E-1	2.60E-4	2.00E-1	3.03E-1	2.09E-4	4.77E-3	3.14E-5	-2.79E-1	2.89E-2
PENRE	MJ	2.90E+0	2.21E-2	4.45E-2	2.96E+0	1.54E-2	1.06E-1	8.69E-4	-1.56E+0	1.53E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.90E+0	2.21E-2	4.45E-2	2.96E+0	1.54E-2	1.06E-1	8.69E-4	-1.56E+0	1.53E+0
PET	MJ	3.00E+0	2.24E-2	2.45E-1	3.27E+0	1.57E-2	1.11E-1	9.01E-4	-1.84E+0	1.56E+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	8.28E-4	2.53E-6	7.54E-4	1.58E-3	1.65E-6	5.60E-5	1.01E-6	-6.67E-4	9.77E-4
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.39E-7	5.27E-8	4.38E-8	5.35E-7	3.72E-8	1.70E-7	9.92E-10	-4.31E-7	3.12E-7
NHWD	kg	3.86E-3	1.32E-3	6.76E-5	5.24E-3	9.02E-4	4.84E-3	3.60E-3	-1.75E-3	1.28E-2
RWD	kg	1.97E-6	1.37E-7	8.11E-8	2.19E-6	9.89E-8	3.99E-7	5.34E-9	-1.08E-6	1.61E-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



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