

Environmental Profile

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

Ecochain v3.5.80



Product: 3085264 - PP Vent. Endcap Fitting 195x80
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	7.82E-7	2.98E-8	1.09E-7	9.21E-7	2.11E-8	1.12E-7	2.34E-10	-3.08E-7	7.46E-7
ADPF	kg Sb-eq	1.10E-3	8.58E-6	1.88E-5	1.13E-3	5.94E-6	4.14E-5	3.26E-7	-5.95E-4	5.84E-4
GWP	kg CO2-eq	6.49E-2	1.17E-3	3.56E-3	6.96E-2	8.09E-4	2.41E-2	3.28E-4	-3.98E-2	5.51E-2
ODP	kg CFC-11-eq	2.71E-9	2.07E-10	2.82E-10	3.20E-9	1.50E-10	5.77E-10	7.78E-12	-2.31E-9	1.62E-9
POCP	kg ethene-eq	5.18E-5	7.04E-7	1.55E-6	5.41E-5	4.86E-7	4.28E-6	7.48E-8	-2.68E-5	3.21E-5
AP	kg SO2-eq	2.07E-4	5.13E-6	1.53E-5	2.27E-4	3.48E-6	2.17E-5	1.72E-7	-1.13E-4	1.40E-4
EP	kg PO4 3--eq	2.31E-5	1.01E-6	1.97E-6	2.61E-5	6.96E-7	3.89E-6	7.45E-8	-1.49E-5	1.58E-5
HTP	kg 1,4-DB-eq	1.11E-2	4.91E-4	1.66E-3	1.33E-2	3.46E-4	8.29E-3	2.56E-5	-6.32E-3	1.56E-2
FAETP	kg 1,4-DB-eq	4.29E-4	1.43E-5	5.65E-5	5.00E-4	1.01E-5	1.79E-4	2.76E-5	-2.73E-4	4.43E-4
MAETP	kg 1,4-DB-eq	7.55E-1	5.16E-2	2.23E-1	1.03E+0	3.62E-2	4.40E-1	2.76E-2	-3.95E-1	1.14E+0
TETP	kg 1,4-DB-eq	5.96E-5	1.74E-6	1.23E-4	1.84E-4	1.23E-6	2.51E-5	4.22E-8	-8.05E-5	1.30E-4
Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	6.78E-2	1.18E-3	4.08E-3	7.31E-2	8.17E-4	2.69E-2	3.84E-4	-3.49E-2	6.64E-2
GWP-f	kg CO2 eq	6.74E-2	1.18E-3	3.13E-3	7.17E-2	8.16E-4	2.42E-2	3.84E-4	-4.11E-2	5.60E-2
GWP-b	kg CO2 eq	3.67E-4	5.43E-7	6.47E-4	1.01E-3	4.96E-7	2.77E-3	3.34E-7	6.29E-3	1.01E-2
GWP-luluc	kg CO2 eq	5.09E-5	4.31E-7	2.97E-4	3.49E-4	2.89E-7	4.75E-6	6.72E-9	-5.25E-5	3.01E-4
ODP	kg CFC11 eq	2.96E-9	2.60E-10	3.31E-10	3.55E-9	1.88E-10	6.83E-10	9.66E-12	-2.37E-9	2.05E-9
AP	mol H+ eq	2.53E-4	6.82E-6	1.91E-5	2.78E-4	4.65E-6	2.81E-5	2.31E-7	-1.37E-4	1.74E-4
EP-fw	kg P eq	1.26E-6	1.19E-8	5.49E-8	1.32E-6	6.71E-9	1.39E-7	3.06E-10	-1.00E-6	4.70E-7
EP-m	kg N eq	4.71E-5	2.40E-6	4.51E-6	5.40E-5	1.66E-6	8.41E-6	1.49E-7	-2.58E-5	3.84E-5
EP-T	mol N eq	5.09E-4	2.65E-5	4.98E-5	5.85E-4	1.83E-5	9.24E-5	9.37E-7	-2.89E-4	4.07E-4
POCP	kg NMVOC eq	2.12E-4	7.57E-6	1.42E-5	2.34E-4	5.24E-6	2.90E-5	3.51E-7	-1.15E-4	1.53E-4
ADP-mm	kg Sb eq	7.81E-7	2.98E-8	1.09E-7	9.20E-7	2.11E-8	1.12E-7	2.34E-10	-3.08E-7	7.45E-7
ADP-f	MJ	2.32E+0	1.77E-2	3.50E-2	2.37E+0	1.25E-2	8.53E-2	7.06E-4	-1.24E+0	1.23E+0
WDP	m3 depriv.	4.43E-2	6.35E-5	2.71E-2	7.15E-2	3.84E-5	1.60E-3	4.19E-6	-3.08E-2	4.23E-2
PM	disease inc.	2.60E-9	1.06E-10	2.36E-10	2.94E-9	7.37E-11	4.59E-10	4.85E-12	-1.49E-9	1.98E-9
IR	kBq U-235 eq	1.67E-3	7.43E-5	5.57E-5	1.80E-3	5.47E-5	2.65E-4	3.26E-6	-9.84E-4	1.14E-3
ETP-fw	CTUe	1.13E+0	1.58E-2	8.13E-2	1.23E+0	1.02E-2	1.01E-1	5.91E-4	-6.44E-1	6.94E-1
HTP-c	CTUh	1.63E-11	5.13E-13	2.82E-12	1.96E-11	3.62E-13	1.21E-11	1.77E-14	-1.04E-11	2.16E-11
HTP-nc	CTUh	4.68E-10	1.73E-11	8.79E-11	5.73E-10	1.21E-11	1.44E-10	3.83E-13	-3.20E-10	4.10E-10
SQP	Pt	3.34E-1	1.54E-2	2.62E-3	3.52E-1	1.07E-2	6.68E-2	1.81E-3	-1.19E+0	-7.54E-1

Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.39E-2	2.22E-4	1.70E-1	2.54E-1	1.80E-4	4.09E-3	2.70E-5	-2.24E-1	3.43E-2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.39E-2	2.22E-4	1.70E-1	2.54E-1	1.80E-4	4.09E-3	2.70E-5	-2.24E-1	3.43E-2
PENRE	MJ	2.49E+0	1.88E-2	3.79E-2	2.54E+0	1.33E-2	9.08E-2	7.49E-4	-1.33E+0	1.31E+0
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.49E+0	1.88E-2	3.79E-2	2.54E+0	1.33E-2	9.08E-2	7.49E-4	-1.33E+0	1.31E+0
PET	MJ	2.57E+0	1.91E-2	2.08E-1	2.80E+0	1.35E-2	9.49E-2	7.76E-4	-1.56E+0	1.35E+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	7.05E-4	2.16E-6	6.41E-4	1.35E-3	1.42E-6	4.81E-5	8.67E-7	-5.57E-4	8.41E-4
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.71E-7	4.50E-8	3.72E-8	4.53E-7	3.20E-8	1.45E-7	8.56E-10	-3.67E-7	2.64E-7
NHWD	kg	3.24E-3	1.13E-3	5.74E-5	4.42E-3	7.76E-4	4.15E-3	3.10E-3	-1.48E-3	1.10E-2
RWD	kg	1.75E-6	1.17E-7	6.89E-8	1.93E-6	8.52E-8	3.41E-7	4.60E-9	-9.05E-7	1.46E-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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