

Environmental Profile

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

Ecochain v3.5.80



Product: 3085208 - PVC Vent.Duct BL 160x2.5 L=5.5 Round
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					D Reuse- Recovery- Recycling- potential											
A5 Assembly / Construction installation process																

Results

Environmental impact SBK set 1	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
ECI	euro	2.15	0.05	0.09	2.29	0.03	0.75	0	-1.07	2.01
ADPE	kg Sb-eq	1.20E-2	9.82E-6	1.71E-5	1.20E-2	7.07E-6	6.01E-5	7.64E-8	-2.23E-4	1.19E-2
ADPF	kg Sb-eq	2.34E-1	2.83E-3	4.58E-3	2.42E-1	1.99E-3	2.11E-2	1.07E-4	-1.27E-1	1.38E-1
GWP	kg CO2-eq	1.92E+1	3.84E-1	8.15E-1	2.04E+1	2.71E-1	7.39E+0	6.98E-2	-1.07E+1	1.75E+1
ODP	kg CFC-11-eq	1.10E-5	6.82E-8	7.66E-8	1.11E-5	5.03E-8	8.63E-7	2.55E-9	-5.53E-6	6.48E-6
POCP	kg ethene-eq	1.16E-2	2.32E-4	3.59E-4	1.22E-2	1.63E-4	1.66E-3	1.83E-5	-5.43E-3	8.58E-3
AP	kg SO2-eq	7.68E-2	1.69E-3	3.20E-3	8.17E-2	1.17E-3	1.22E-2	5.71E-5	-3.46E-2	6.05E-2
EP	kg PO4 3--eq	9.29E-3	3.32E-4	5.05E-4	1.01E-2	2.33E-4	1.85E-3	2.20E-5	-4.20E-3	8.03E-3
HTP	kg 1,4-DB-eq	7.52E+0	1.62E-1	3.08E-1	7.99E+0	1.16E-1	3.26E+0	5.90E-3	-3.36E+0	8.01E+0
FAETP	kg 1,4-DB-eq	1.90E-1	4.72E-3	1.25E-2	2.07E-1	3.40E-3	4.96E-2	1.79E-3	-7.36E-2	1.88E-1
MAETP	kg 1,4-DB-eq	5.14E+2	1.70E+1	5.11E+1	5.82E+2	1.21E+1	1.63E+2	2.19E+0	-2.16E+2	5.42E+2
TETP	kg 1,4-DB-eq	5.30E-2	5.72E-4	1.91E-2	7.26E-2	4.11E-4	1.16E-2	1.97E-5	-2.45E-2	6.02E-2
Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.87E+1	3.88E-1	9.60E-1	2.00E+1	2.74E-1	8.68E+0	8.13E-2	-1.10E+1	1.80E+1
GWP-f	kg CO2 eq	1.97E+1	3.88E-1	7.52E-1	2.09E+1	2.73E-1	7.45E+0	8.13E-2	-1.09E+1	1.77E+1
GWP-b	kg CO2 eq	-1.08E+0	1.79E-4	1.63E-1	-9.13E-1	1.66E-4	1.23E+0	1.03E-4	-7.61E-2	2.45E-1
GWP-luluc	kg CO2 eq	1.72E-2	1.42E-4	4.58E-2	6.32E-2	9.68E-5	3.29E-3	2.19E-6	-7.23E-3	5.93E-2
ODP	kg CFC11 eq	1.08E-5	8.55E-8	9.08E-8	1.10E-5	6.30E-8	8.89E-7	3.16E-9	-5.48E-6	6.46E-6
AP	mol H+ eq	9.28E-2	2.25E-3	4.10E-3	9.91E-2	1.56E-3	1.53E-2	7.64E-5	-4.18E-2	7.42E-2
EP-fw	kg P eq	9.04E-4	3.91E-6	1.07E-5	9.19E-4	2.25E-6	1.09E-4	9.86E-8	-4.03E-4	6.27E-4
EP-m	kg N eq	1.58E-2	7.92E-4	1.21E-3	1.78E-2	5.57E-4	3.73E-3	4.65E-5	-7.30E-3	1.48E-2
EP-T	mol N eq	1.73E-1	8.73E-3	1.30E-2	1.95E-1	6.14E-3	4.11E-2	3.05E-4	-7.85E-2	1.64E-1
POCP	kg NMVOC eq	5.78E-2	2.49E-3	3.66E-3	6.39E-2	1.76E-3	1.23E-2	1.04E-4	-2.69E-2	5.13E-2
ADP-mm	kg Sb eq	1.20E-2	9.82E-6	1.71E-5	1.20E-2	7.07E-6	6.01E-5	7.64E-8	-2.23E-4	1.19E-2
ADP-f	MJ	4.99E+2	5.85E+0	8.70E+0	5.13E+2	4.20E+0	4.18E+1	2.30E-1	-2.65E+2	2.94E+2
WDP	m3 depriv.	3.29E+1	2.09E-2	5.88E+0	3.88E+1	1.29E-2	1.64E+0	1.51E-3	-1.57E+1	2.48E+1
PM	disease inc.	6.55E-7	3.48E-8	6.36E-8	7.53E-7	2.47E-8	1.91E-7	1.58E-9	-2.71E-7	6.99E-7
IR	kBq U-235 eq	1.10E+0	2.45E-2	1.57E-2	1.14E+0	1.83E-2	1.46E-1	1.05E-3	-5.08E-1	7.93E-1
ETP-fw	CTUe	4.36E+2	5.21E+0	1.45E+1	4.56E+2	3.41E+0	3.16E+2	3.49E+0	-1.57E+2	6.22E+2
HTP-c	CTUh	1.54E-8	1.69E-10	4.95E-10	1.61E-8	1.21E-10	4.74E-9	6.23E-12	-5.83E-9	1.51E-8
HTP-nc	CTUh	4.96E-7	5.70E-9	1.51E-8	5.17E-7	4.06E-9	1.11E-7	6.72E-10	-2.01E-7	4.32E-7
SQP	Pt	1.78E+2	5.07E+0	6.51E-1	1.84E+2	3.59E+0	2.60E+1	5.86E-1	-5.21E+1	1.62E+2

Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.17E+1	7.32E-2	2.62E+1	6.80E+1	6.02E-2	3.01E+0	8.34E-3	-1.62E+1	5.48E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.17E+1	7.32E-2	2.62E+1	6.80E+1	6.02E-2	3.01E+0	8.34E-3	-1.62E+1	5.48E+1
PENRE	MJ	5.35E+2	6.21E+0	9.43E+0	5.51E+2	4.46E+0	4.45E+1	2.44E-1	-2.86E+2	3.14E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.35E+2	6.21E+0	9.43E+0	5.51E+2	4.46E+0	4.45E+1	2.44E-1	-2.86E+2	3.14E+2
PET	MJ	5.77E+2	6.28E+0	3.57E+1	6.19E+2	4.52E+0	4.75E+1	2.53E-1	-3.02E+2	3.69E+2
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	3.63E-1	7.12E-4	1.39E-1	5.02E-1	4.75E-4	4.49E-2	2.81E-4	-1.64E-1	3.84E-1
Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.85E-3	1.48E-5	1.22E-5	1.88E-3	1.07E-5	6.75E-5	2.80E-7	-2.21E-4	1.74E-3
NHWD	kg	2.00E+0	3.71E-1	1.76E-2	2.38E+0	2.60E-1	1.56E+0	1.04E+0	-8.45E-1	4.40E+0
RWD	kg	9.53E-4	3.84E-5	2.19E-5	1.01E-3	2.85E-5	1.57E-4	1.50E-6	-4.48E-4	7.52E-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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