

# Environmental Data Sheet

Self-declaration based on Environdec Sub-PCR-H Cement and building limes (EN 16908)

Manufacturer:	Finnsementti Oy, Skräbbölenie 18, FI-21600, Parainen (FI)
Declared unit:	1 ton of cement
Production site(s):	Lappeenranta
Scope:	A1-A3
Methodology:	CSI EPD Tool v1.5 / CML v4.7
Date of issue:	19.11.2018
Comment:	All information about goal and scope necessary for results interpretation by the EPD verifier are present in the latest version of the "LCA core model and database report".

	LV Plus	LV Rapid	LV Pika	LV SR	
<b>Environmental impacts</b>					
Global warming potential, GWP (100 years)	616.05	701.73	740.58	744.93	kg CO2-eq.
Depletion potential of the stratospheric ozone layer, ODP	0.00	0.00	0.00	0.00	kg CFC 11-eq.
Acidification potential of soil and water, AP	1.07	1.21	1.27	1.23	kg SO2-eq.
Eutrophication potential, EP	0.31	0.35	0.37	0.36	kg PO43- -eq.
Formation potential of tropospheric ozone, POCP	0.08	0.09	0.09	0.09	kg ethylene -eq.
Abiotic depletion potential for non-fossil resources, ADP-elements	0.00	0.00	0.00	0.00	kg Sb-eq.
Abiotic depletion potential for fossil resources, ADP-fossil fuels	1151.05	1273.44	1348.58	1252.83	MJ
Human toxicity potential, HTP	430.23	490.86	518.75	523.38	kg p-DCB-eq.
Freshwater aquatic ecotoxicity potential, FAETP	39.14	43.99	47.64	42.28	kg p-DCB-eq.
Marine aquatic ecotoxicity potential, MAETP	119569.01	133039.52	141954.26	133578.35	kg p-DCB-eq.
Terrestrial ecotoxicity potential, TETP	3.60	4.22	4.43	4.27	kg p-DCB-eq.
<b>Resource use</b>					
Renewable primary energy used as energy resource	526.88	598.00	650.75	564.12	MJ
Renewable primary energy used as raw materials	0.00	0.00	0.00	0.00	MJ
Total renewable primary energy	526.88	598.00	650.75	564.12	MJ
Non-renewable primary energy used as energy resource	1663.67	1854.65	1992.67	1794.22	MJ
Non-renewable primary energy used as raw materials	0.00	0.00	0.00	0.00	MJ
Total non-renewable primary energy	1663.67	1854.65	1992.67	1794.22	MJ
Secondary material	223.83	157.15	165.91	168.91	kg
Renewable secondary fuels	522.10	597.75	631.03	641.68	MJ
Non-renewable secondary fuels	543.85	622.66	657.33	668.42	MJ
Net fresh water	6.43	7.02	7.46	6.59	m <sup>3</sup>
<b>Waste*</b>					
Hazardous waste disposed	0.11	0.13	0.13	0.14	kg
Non-hazardous waste disposed	26.36	30.18	31.86	32.40	kg
Radioactive waste disposed	0.00	0.00	0.00	0.00	kg
<b>Output flows*</b>					
Components for re-use	3.96	4.53	4.79	4.87	kg
Materials for recycling	0.24	0.28	0.29	0.30	kg
Materials for energy recovery	0.16	0.19	0.20	0.20	kg
Exported energy	11.02	12.62	13.32	13.55	MJ
<b>Extra indicators*</b>					
Electricity use	98.43	112.24	124.90	104.45	kWh
Total dust	0.03	0.03	0.03	0.03	kg

\* The contribution of activities situated upstream of the clinker manufacturing are not included in the results.