

# 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:	15.5.2019
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".

Environmental impacts	Lappeenranta				
	Plus	Rapid	Pika	SR	
Global warming potential, GWP (100 years)	602.78	693.75	722.29	739.17	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	1.09	1.21	1.26	1.22	kg SO2-eq.
Eutrophication potential, EP	0.33	0.36	0.38	0.37	kg PO43- -eq.
Formation potential of tropospheric ozone, POCP	0.06	0.07	0.07	0.07	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	1233.52	1369.58	1441.07	1356.28	MJ
Human toxicity potential, HTP	426.29	491.93	512.42	527.14	kg p-DCB-eq.
Freshwater aquatic ecotoxicity potential, FAETP	42.33	46.41	49.92	45.01	kg p-DCB-eq.
Marine aquatic ecotoxicity potential, MAETP	104238.42	116116.08	123257.88	116354.85	kg p-DCB-eq.
Terrestrial ecotoxicity potential, TETP	5.24	5.38	5.60	5.50	kg p-DCB-eq.
<b>Resource use</b>					
Renewable primary energy used as energy resource	594.79	657.82	715.46	617.96	MJ
Renewable primary energy used as raw materials	0.00	0.00	0.00	0.00	MJ
Total renewable primary energy	594.79	657.82	715.46	617.96	MJ
Non-renewable primary energy used as energy resource	1722.91	1934.93	2065.26	1882.82	MJ
Non-renewable primary energy used as raw materials	0.00	0.00	0.00	0.00	MJ
Total non-renewable primary energy	1722.91	1934.93	2065.26	1882.82	MJ
Secondary material	196.65	137.36	142.85	148.05	kg
Renewable secondary fuels	535.76	621.37	646.24	669.75	MJ
Non-renewable secondary fuels	387.65	449.59	467.59	484.60	MJ
Net freshwater	6.43	6.97	7.41	6.59	m³
<b>Waste*</b>					
Hazardous waste disposed	0.02	0.02	0.02	0.02	kg
Non-hazardous waste disposed	22.71	26.34	27.39	28.39	kg
Radioactive waste disposed	0.00	0.00	0.00	0.00	kg
<b>Output flows*</b>					
Components for re-use	0.00	0.00	0.00	0.00	kg
Materials for recycling	0.76	0.88	0.92	0.95	kg
Materials for energy recovery	0.09	0.10	0.11	0.11	kg
Exported energy	6.70	7.77	8.08	8.37	MJ
<b>Extra indicators*</b>					
Electricity use	98.33	115.14	127.67	106.93	kWh
Total dust	0.03	0.04	0.04	0.04	kg

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