

# 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:	GCCA EPD Tool v2.0 / CML v4.7
Date of issue:	15.5.2020
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)	627.34	712.47	761.77	757.99	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	1.19	1.26	1.18	kg SO2-eq.
Eutrophication potential, EP	0.35	0.39	0.41	0.39	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	1445.24	1602.65	1709.53	1597.22	MJ
Human toxicity potential, HTP	179.10	203.12	217.52	214.92	kg p-DCB-eq.
Freshwater aquatic ecotoxicity potential, FAETP	47.77	52.64	57.28	51.26	kg p-DCB-eq.
Marine aquatic ecotoxicity potential, MAETP	101849.11	113670.28	122331.37	112395.11	kg p-DCB-eq.
Terrestrial ecotoxicity potential, TETP	4.39	4.35	4.61	4.35	kg p-DCB-eq.
<b>Resource use</b>					
Renewable primary energy used as energy resource	637.43	703.47	774.05	664.65	MJ
Renewable primary energy used as raw materials	0.00	0.00	0.00	0.00	MJ
Total renewable primary energy	637.43	703.47	774.05	664.65	MJ
Non-renewable primary energy used as energy resource	1957.07	2191.26	2368.17	2146.95	MJ
Non-renewable primary energy used as raw materials	0.00	0.00	0.00	0.00	MJ
Total non-renewable primary energy	1957.07	2191.26	2368.17	2146.95	MJ
Secondary material	207.52	146.14	156.49	157.40	kg
Renewable secondary fuels	419.12	478.55	512.43	515.40	MJ
Non-renewable secondary fuels	433.41	494.86	529.90	532.97	MJ
Net fresh water	6.67	7.24	7.72	6.85	m <sup>3</sup>
<b>Waste*</b>					
Hazardous waste disposed	0.04	0.05	0.05	0.05	kg
Non-hazardous waste disposed	8.09	9.24	9.89	9.95	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	0.78	0.89	0.95	0.96	kg
Materials for energy recovery	0.34	0.39	0.42	0.42	kg
Exported energy	20.99	23.96	25.66	25.81	MJ
<b>Extra indicators*</b>					
Electricity use	102.93	119.67	134.68	111.71	kWh
Total dust	0.03	0.03	0.04	0.04	kg

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