

# Plussementti

CEMENT

CEM II/B-M (S-LL) 42,5 N

FEBRUARY 2018 

The cement has the CE mark and complies with the standard SFS-EN 197-1: 2011.

EC-certificate of conformity. Certificate no.

Paraisten Plussementti 0416-CPD-5483

Lappeenrannan Plussementti 0416-CPD-5482

Typical properties of cement and clinker:

Property of cement	Typical values	Requirement EN 197-1:2011
1d strength	10...14 MPa	none
2d strength	23...27 MPa	≥ 10 MPa
7d strength	34...39 MPa	none
28d strength	46...52 MPa	≥ 42,5 MPa ja ≤ 62,5 MPa
Initial setting time	150...210	≥ 60 min
Soundness	0...1,5 mm	none
Fineness (Blaine)	400...480 m <sup>2</sup> /kg	none
Loss of ignition	-	none
Insoluble residue	-	none
Sulfate content SO <sub>3</sub>	3,0...3,3 %	≤ 3,5 %
Chloride Cl <sup>-</sup>	≤ 0,08%	≤ 0,10 %
Cr <sup>6+</sup>	0...2 mg/kg	≤ 2 mg/kg

Chemical properties of clinker	%	Requirement EN 197-1:2011
CaO	63...65 %	
SiO <sub>2</sub>	20...22%	
Al <sub>2</sub> O <sub>3</sub>	4,0...5,4 %	
Fe <sub>2</sub> O <sub>3</sub>	2,8...3,3 %	
MgO	2,5...3,2 %	
C <sub>3</sub> A	-	none

Other main constituents	%	Requirement EN 197-1
Sum of other main constituents	21...35 %	≥ 21 % ja ≤ 35 %
Limestone	6...15 %	
Blast furnace slag	10...25%	



FINNSEMENTTI

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