

## ANALYSIS CERTIFICATE

Cement Type: CEMII/B-L 42.5 N White

### Chemical & Physical Properties

Cement Characteristics		Standard	Result	Specifications	Units
SiO <sub>2</sub>		EN 196-2	17.09	-	%
Al <sub>2</sub> O <sub>3</sub>			2.45	-	%
Fe <sub>2</sub> O <sub>3</sub>			0.180	-	%
CaO			64.22	-	%
K <sub>2</sub> O			0.03	-	%
Na <sub>2</sub> O			0.08	-	%
Alkalis content "Na <sub>2</sub> O Equ."				0.10	-
Loss in ignition		EN 196-2	13.40	-	%
F.CaO		EN 196-2	2.80	-	%
Magnesia (MgO)		EN 196-2	0.30	-	%
Sulphur Trioxide (SO <sub>3</sub> )		EN 196-2	2.00	≤ 3.5	%
Chloride		EN 196-2	0.036	≤ 0.10	%
Insoluble Residue		EN 196-2	0.45		
Whiteness	(CIE 1931) Y		88.00		%
	L*		95.14		%
	(Hunter scale) L		92.20		%
Fineness Blaine (cm <sup>2</sup> /g)		EN 196-6	5579		cm <sup>2</sup> /g
Initial Setting time (min)		EN 196-3	150	≥ 60	min
Final Set (min)		EN 196-3	190		min
Expansion "Le Chatelier" (mm)		EN 196-3	2.0	≤ 10	mm
C3S		Bogue	97.67		%
C3A			6.19		%

### Compressive Strength

	Standard	Result	Limits	Units
2 days	EN 196-1	23.50	≥ 10.0	N/mm <sup>2</sup>
28 days		49.65	42.5 --- 62.5	

The above results complying with requirements EN 197-1

Approval by:

Lab. & Q.C.