KIRTON CONCRETE SERVICES LTD

- INDEPENDENT TESTING LABORATORY



Manor House, Station Road, Hibaldstow, Brigg, North Lincolnshire, DN20 9EB, England Telephone: (01652) 656931 : Fax: (01652) 651082 : E-mail Kirtonlab@aol.com

1175

CEMENT TEST RESULTS

Client :- TITAN CEMENT LTD., HULL
Report Reference :- TITAN 2/16

Your Reference :-

Sample :- PORTLAND CEMENT

Sand :- FRENCH

Date of receipt of sample :- 26/01/2016

Date of tests :- 26/01/2016 to 23/02/2016

Date of Report :- 23/02/2016

RESULTS

3110	kg/m3	(BS EN196 PART 6:2010 N.AC. 5.3)
3930	cm2/g	(BS EN196 PART 6:2010)
28.5	%	(BS EN196- 3:2005)
180	mins	(BS EN196- 3:2005)
1.0	mm	(BS EN196- 3:2005)
	3930 28.5 180	

COMPRESSIVE STRENGTH: - MORTAR PRISMS

AT 2 DAYS

31.0 MPa (Mean of 6 results, none discarded)

AT 7 DAYS

47.1 MPa (Mean of 6 results, none discarded)

AT 28 DAYS

60.2 MPa (Mean of 6 results, none discarded)

(BS EN196 - 1:2005)

CHEMICAL COMPOSITION: - by mass

Chloride	0.04	%	(BS EN 196 -2:2013)
Na2O	0.14	%	(BS EN 196 -2:2013)
K2O	0.55	%	(BS EN 196 -2:2013)
Na2O (equiv)	0.50	%	(BS EN 196 -2:2013)

End Of Report

THE ABOVE RESULTS COMPLY WITH THE REQUIREMENTS OF

BS EN 197-1:2011 FOR CEM 1 52.5 N

Signed

Certificate signed by :-

/

S Burton A .M.I.C.T Technical Manager J M Burton

Quality Manager
Page 1 of 3

Registerd Office: Manor House, Station Road, Hibaldstow, N.Lincs. Reg No 4408294, Cardiff

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CEMENT TEST REPORT

ests accordance	vith BS1881:Part 13	31: 1998: Annex C
ests accordance	vith BS1881:Part 13	31: 1998: Annex (

Client

:- TITAN CEMENT LTD , HULL

Report Reference

CUBES

2/16

Your Reference

:-

Date of receipt

26/01/2016

Date of tests

26/01/2016

to

23/02/2016

RESULTS

AT 3 DAYS	28.0	28.5	27.5	average =	28.0 N/mm2
AT 7 DAYS	36.0	37.5	37.5	average =	37.5 N/mm2
AT 28 DAYS	49.5	47.5	50.5	average =	49.0 N/mm2
SLUMP					65 mm.

26/01/2016 at

14:07

as per BSEN 12350-2:2009 by

End of Report

B. Beck The sampling was carried out in accordance with BSEN 12350-1:2009. The mixing, sampling and slump test were carried out at Kirton Concrete Services laboratory. The time lapse from sampling to commencement of test was zero. The slump was a true slump.

Signed

23/02/2016

Certificate signed by :-

S Burton A .M.I.C.T J M Burton Technical Manager Quality Manager

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CEMENT TEST REPORT

Client :- TITAN CEMENT LTD , HULL

Report Reference :- CHEMISTRY 2/16

Your Reference :

Date of receipt of sample :- 26/01/2016

Date of tests :- 26/01/2016 to 23/02/2016

Date of report :- 23/02/2016

CHEMICAL COMPOSITION :- % by mass, as received

1 R	0.42	(BS EN 196 -2:2013)
SO3	2.76	(BS EN 196 -2:2013)
LOI	3.22	(BS EN 196 -2:2013)
K2O	0.55	(BS EN 196 -2:2013)
Na2O	0.14	(BS EN 196 -2:2013)
Na2O (eq)	0.50	(BS EN 196 -2:2013)
Chloride	0.04	(BS EN 196 -2:2013)
Chrome VI mg/kg	N/A	(BS EN 196 -2:2013)
3,8	14/14	(D2 EM T20 -5:50T3

The results determined by XRF analysis are not covered by the laboratories accreditation.

SiO2	19.99	by XRF
Al2O3	4.21	by XRF
Fe2O3	3.20	by XRF
CaO	64.55	by XRF
MgO	2.58	by XRF

The following results are not UKAS Accredited :-

L.S.F.	0.99
СЗА	5.75
C3S	67.74
C2S	6.22
C4AF	9.73
Free Lime	0.58

End Of Report

Certificate signed by :-

Technical Manager

Signed ...

S Burton A .M.I.C.T

J M Burton Quality Manager

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