

KIRTON CONCRETE SERVICES LTD

INDEPENDENT TESTING LABORATORY

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TEST RESULTS

Client :- TITAN CEMENT LTD. HULL
Report reference :- TITAN 59
Ship reference :- "2-19
Sample :- ORDINARY PORTLAND CEMENT
Sand :- FRENCH
Date received :- 19-Mar-19
Date of tests :- 19-Mar-19 to 16-Apr-19

All results are based on sample received from the client

DENSITY	3180 kg/m ³	(BSEN 196-6:2010 N.A.C. 5.3)
FINENESS	4290 cm ² /g	(BSEN 196-6:2010)
STANDARD CONSISTANCE	28.0 %	(BSEN 196-3:2016)
INITIAL SETTING TIME	181 mins	(BSEN 196-3:2016)
SOUNDNESS	0.5 mm	(BSEN 196-3:2016)

COMPRESSIVE STRENGTH:- mortar prisms (BSEN 196-1:2016)

AT 2 DAYS	32.9 Mpa	(Mean of 6 results, none discarded)
AT 7 DAYS	53.7 Mpa	(Mean of 6 results, none discarded)
AT 28 DAYS	71.1 Mpa	(Mean of 6 results, none discarded)

CHEMICAL COMPOSITION:- % by mass, as received

K ₂ O	0.59 %	(BSEN 196-2:2013)
Na ₂ O	0.18 %	(BSEN 196-2:2013)
Na ₂ O(eq)	0.57 %	(BSEN 196-2:2013)
Chloride	0.02 %	(BSEN 196-2:2013)

End of Report

Signed.....

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Date 24/04/2019

J.M. Burton Quality Manager

S. Burton Technical Manager