

# KIRTON CONCRETE SERVICES LTD

## INDEPENDENT TESTING LABORATORY

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### TEST RESULTS

Client :- TITAN CEMENT LTD. HULL  
Report reference :- TITAN  
Weekly reference :- Week 19 2019  
Sample :- ORDINARY PORTLAND CEMENT  
Sand :- FRENCH  
Date received :- 14-May-19  
Date of tests :- 14-May-19 to 11-Jun-19

All results are based on sample received from the client

FINENESS 4090 cm<sup>2</sup>/g (BSEN 196-6:2010)  
STANDARD CONSISTANCE 28.0 % (BSEN 196-3:2016)  
INITIAL SETTING TIME 136 mins (BSEN 196-3:2016)

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

AT 2 DAYS 28.7 Mpa ( Mean of 6 results, none discarded)  
AT 7 DAYS 50.2 Mpa ( Mean of 6 results, none discarded)  
AT 28 DAYS 68.6 Mpa ( Mean of 6 results, none discarded)

CHEMICAL COMPOSITION:- by mass, as received

Chloride 0.01 % (BSEN 196-2:2013)  
Average Chloride 0.00 Last 25 results  
Na<sub>2</sub>O 0.17 % (BSEN 196-2:2013)  
K<sub>2</sub>O 0.55 % (BSEN 196-2:2013)  
Na<sub>2</sub>O (equiv ) 0.53 % (BSEN 196-2:2013)  
Na<sub>2</sub>O Average Alkali's 0.56 Last 25 results

End of Report

THE ABOVE RESULTS COMPLY WITH THE REQUIREMENTS OF

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

Signed.....

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J.M. Burton Quality Manager

S. Burton ✓ Technical Manager