

# KIRTON CONCRETE SERVICES LTD

## INDEPENDENT TESTING LABORATORY

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### TEST RESULTS

Client :- TITAN CEMENT LTD. HULL  
Report reference :- TITAN 77  
Ship reference :- "7-20  
Sample :- ORDINARY PORTLAND CEMENT  
Sand :- FRENCH  
Date received :- 08-Sep-20  
Date of tests :- 08-Sep-20 to 06-Oct-20

All results are based on sample received from the client

DENSITY	3080 kg/m <sup>3</sup>	(BSEN 196-6:2018 N.AC. 5.3)
FINENESS	4420 cm <sup>2</sup> /g	(BSEN 196-6:2018)
STANDARD CONSISTANCE	29.0 %	(BSEN 196-3:2016)
INITIAL SETTING TIME	175 mins	(BSEN 196-3:2016)
SOUNDNESS	1.0 mm	(BSEN 196-3:2016)

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

AT 2 DAYS	37.1 Mpa	( Mean of 6 results, none discarded)
AT 7 DAYS	51.2 Mpa	( Mean of 6 results, none discarded)
AT 28 DAYS	67.7 Mpa	( Mean of 6 results, none discarded)

CHEMICAL COMPOSITION:- % by mass, as received

K <sub>2</sub> O	0.59 %	(BSEN 196-2:2013)
Na <sub>2</sub> O	0.18 %	(BSEN 196-2:2013)
Na <sub>2</sub> O(eq)	0.57 %	(BSEN 196-2:2013)
Chloride	0.09 %	(BSEN 196-2:2013)

End of Report

Signed.....

J.M. Burton

Quality Manager

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Date 21/10/2020

S. Burton

Technical Manager