

KIRTON CONCRETE SERVICES LTD

INDEPENDENT TESTING LABORATORY

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TEST RESULTS

Client :- TITAN CEMENT LTD. HULL
Report reference :- TITAN 84
Ship reference :- "2-21
Sample :- ORDINARY PORTLAND CEMENT
Sand :- FRENCH
Date received :- 17-Feb-21
Date of tests :- 17-Feb-21 to 17-Mar-21

All results are based on sample received from the client

| | | |
|----------------------|-------------------------|-----------------------------|
| DENSITY | 3120 kg/m ³ | (BSEN 196-6:2018 N.AC. 5.3) |
| FINENESS | 3670 cm ² /g | (BSEN 196-6:2018) |
| STANDARD CONSISTANCE | 29.5 % | (BSEN 196-3:2016) |
| INITIAL SETTING TIME | 171 mins | (BSEN 196-3:2016) |
| SOUNDNESS | 1.0 mm | (BSEN 196-3:2016) |

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

| | | |
|------------|----------|--------------------------------------|
| AT 2 DAYS | 30.0 Mpa | (Mean of 6 results, none discarded) |
| AT 7 DAYS | 50.7 Mpa | (Mean of 6 results, none discarded) |
| AT 28 DAYS | 68.4 Mpa | (Mean of 6 results, none discarded) |

CHEMICAL COMPOSITION:- % by mass, as received

| | | |
|-----------------------|--------|-------------------|
| K ₂ O | 0.56 % | (BSEN 196-2:2013) |
| Na ₂ O | 0.16 % | (BSEN 196-2:2013) |
| Na ₂ O(eq) | 0.53 % | (BSEN 196-2:2013) |
| Chloride | 0.03 % | (BSEN 196-2:2013) |

End of Report

Signed.....

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Date 24/03/2021

J.M. Burton Quality Manager

S. Burton Technical Manager