## KIRTON CONCRETE SERVICES LTD

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An independent testing laboratory specialising in the testing of cementitious materials

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PREPARED FOR TITAN CEMENT Ltd. HULL					
REPORT REFERENCE	Titan	96			
CLIENT REFERENCE	CHEMISTRY	2021			
SHIP REFERENCE	"14-21				
SAMPLE	ORDINARY PORTLAND CEMENT				
DATE OF RECEIPT OF SAMPLE	14-Dec-21				
DATE OF TESTS	14-Dec-21	to	11-Jan-22		
DATE OF REPORT	11-Jan-22				

ALL RESULTS RELATE ONLY TO SAMPLE TESTED					
CHEMICAL COMPOSITION: - by mass, as received					
Density	3120 kg/m <sup>3</sup>	(BSEN 196-6:2010 )			
Fineness	4310 cm <sup>2</sup> /g	(BSEN 196-3:2016)			
Standard Consistance	29.5 %	(BSEN 196-3:2016)			
Initial Setting Time	139 mins	(BSEN 196-3:2016)			
Soundness	1.0 mm	(BSEN 196-3:2016)			

COMPRESSIVE STRENGTH: MORTAR PRISMS		(BSEN 196-1:2016)	
AT 2 DAYS	33.2	MPa	(Mean of 6 results, none discarded)
AT 7 DAYS	48.1	MPa	(Mean of 6 results, none discarded)
AT 28 DAYS	63.6	MPa	(Mean of 6 results, none discarded)

CHEMICAL COMPOSITION: by mass, as received				
K2O	0.57 %	(BSEN 196-2:2013)		
Na2O	0.18 %	(BSEN 196-2:2013)		
Na2O (eq)	0.56 %	(BSEN 196-2:2013)		
Chloride	0.01 %	(BSEN 196-2:2013)		

## **END OF REPORT**

SIGNED:

Certificate signed by: 

S.Burton A.M.I.C.T

J.M. Burton

Technical Manager

**Quality Manager**