MANUFACTURERS TEST REPORT FOR BS EN197-1:2000 & BS EN197-1:2011 PORTLAND CEMENT **CEMENT IS TESTED IN ACCORDANCE WITH EN196**

Report No.:		A2/2238			
La	b. No.:	96897	BS EN197-1:2000 and BS EN197-1:2011 CEM I Strength Class 52.5N Requirements	EMERALD BRAND Typical result of cement dispatched on 18 September 2022	
A.	A. Compressive Strength				
	Strength at 2 days Strength at 7 days Strength at 28 days		Not less than 20.0 MPa - Not less than 52.5 MPa and not more than 72.5 MPa (E	26.0 45.0 59.2 (S12)	MPa MPa MPa
B.	Fineness		-	384	m²/kg
C.	Setting times,	Initial Final	Not less than 45 minutes Not required	100 130	mins. mins.
D.	Soundness		Not more than 10 mm	0	mm
E.	Additives		Not more than 1.0 %	None	
F.	Minor constituents		Not more than 5 %	4.2	%
G.	Loss on ignition		Not more than 5.0 % (BS12) and not more than 5.0 % (BS E	3.44	%
H.	Residue insoluble		Not more than 5.0 %	0.57	%
I.	Sulfate of cement as SO ₃		Not more than 3.5 % (BS12) and not more than 4.0 % (BS E	2.66	%
J.	Chloride content		Not more than 0.10 %	<0.01	%
K.	Chemical comp Silicon dioxide Iron (III) oxide Aluminium oxi Calcium oxide Magnesium ox Calcium silicat Ratio, CaO/Sil	ide ide	ker used - - Not more than 5.0% Not less than 67% Not less than 2.0	20.8 3.3 6.2 66.2 1.2 75 3.2	% % % % %
L.	Alkali content on last 25 com		e equivalent Mea S.E		% %

The cement delivered is processed by Green Island Cement Co. Ltd., Tap Shek Kok Cement Plant and meets all requirements of BS12:1996 and BS EN197-1:2000 CEM I for Portland Cement of strength class 52.5N.

Form 2A(03/19)

ORIOK Certified by: Approved Signatory: Ng Lap Man Franco

Laboratory Superintendent

26 October 2022

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