TEST REPORT

Report No.: P3h/2210 Page: 1 of 1

Date of issued: 18 November 2022

Green Island Cement Company Limited - Sales Department Client:

Date sample received: 09 October 2022 Date test commenced: 10 October 2022 17 November 2022 Date test completed:

Sample Description:

Brand Name: Pulverized Fuel Ash from Green Island Cement Company Limited (Country of Origin: Hong Kong)

Client's sample identification: PFA dispatch during week ending 8 October 2022

Our Lab. No.: 97006

Test Result:

<u>Test</u>	Test Methods	Re	esult	ţ	Requirement of BS 3892 : Part 1 : 1997
Fineness	BS 3892 : Part 1 : 1997 Annex D		8.2	%	not more than 12.0%
Density	BS EN 196-6: 1992 Annex NC	Trial 2: 2	450	kg/m ³ kg/m ³ kg/m ³	not less than 2000 kg/m $^{\rm 3}$
Initial Setting Time Initial Setting Time *	BS EN 196-3: 2016 Cl. 6			mins mins	not less than Portland cement
Soundness *	BS EN 196-3: 2016 Cl. 7			mm mm	not more than 10 mm
Strength Factor Compressive strength at 28 days *	BS 3892 : Part 1 : 1997 Annex F).92 52.0	N/mm ²	not less than 0.8 #
Water Requirement	BS 3892 : Part 1 : 1997 Annex E		98	%	not greater than 95% #
Sulphuric Anhydride as SO ₃	BS 3892: Part 1: 1997 Cl. 12.1 & BS EN 196 : Part 2 : 1995 Clause 8	0).82	%	not more than 2.0% (m/m)
Loss on Ignition	BS 3892: Part 1: 1997 Cl. 12.2 & BS EN 196 : Part 2 : 1995 Clause 7 (u:		2.11 e)	%	not more than 7% (m/m)
Moisture Content	BS 3892: Part 1: 1997 Cl. 5 & BS 3892 : Part 1 : 1997 Annex C		0.2	%	not more than 0.5%
Chloride	BS 3892: Part 1: 1997 Cl. 12.3 & BS EN 196 : Part 21 : 1992 Clause 4	0	0.01	%	not more than 0.10% (m/m)
Calcium Oxide	BS 3892: Part 1: 1997 Cl. 12.4 & BS EN 196 : Part 2 : 1995 Clause 13.1		7.25 od)	%	not more than 10.0% (m/m)
Na ₂ O	In-house method LAB-T-065	1	1.57	%	not required
K ₂ O	In-house method LAB-T-065	1	1.27	%	not required

Remark:

- 1. Results relate only to the item tested.
- 2. Sampling is performed by laboratory technician and sampling procedure is not accredited by HKAS.
- 3. * means the results are for Portland cement alone with Lab. no. 95425. The Portland cement which was used for the testing BS EN 196-1 and BS EN 196-3 is manufactured by Green Island Cement Co. Ltd. located at Tap Shek Kok, Tuen Mun, N.T.
- 4. Loss on ignition showing in this report is the observed loss on ignition.

Interpretation: 1. # means the requirement for strength factor and water requirement are not required by the CEDD "General Specification for Civil Engineering Works" 2006 Edition Volume 2 clause 16.07 and Hong Kong Housing Authority Specification Library (SL) 2014 Edition clause CON1.M150.7.

Form P3h (06/13)

Certified by: Approved Signatory:

Ng Lap Man Franco Laboratory Superintendent