FINAL REPORT

CERTIFICATE No.: 25749

Boral Cement Limited
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Taylor Avenue New Berrima NSW 2577
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TEST CERTIFICATE OF: Tarong Daily Despatch Grade 1 Fly Ash
PRODUCED AT: Boral Cement Limited Tarong
TESTED AT: Berrima Works Laboratory
SAMPLE IDENTIFICATION: TDDFA2400545
DATE DESPATCHED: 8/02/2024

PROPERTY	REQUIREMENTS OF AS 3582.1 - Grade 1	RESULT
Fineness (AS 3583.1)	≥ 75 %	91 %
LOI (AS 3583.3)	≤ 4.0 %	1.4 %
Moisture (AS 3583.2)	≤ 0.5 %	0.2 %
SO_3 (AS 2350.2)	≤ 3.0 %	< 0.1 %
SiO_2 (AS 2350.2)		74.4 %
Al_2O_3 (AS 2350.2)		20.8 %
Fe_2O_3 (AS 2350.2)		1.7 %
Chemical Composition (AS 2350.2)	≥ 70 %	97 %
Total Alkali (AS 2350.2)		0.3 %
Cl (AS 2350.2)	≤ 0.1 %	< 0.01 %

REMARKS

Sampling not carried out by laboratory. Samples tested as received.

Accredited for compliance with ISO/IEC 17025 - Testing

Marc Smith
Technical Services Manager

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TEST REPORT – FLYASH

CLIENT: BORAL CEMENT – (TECHNICAL) **FILE NO:** 50/24

ADDRESS: 39 Delhi Road, North Ryde, NSW 2113 **REQUEST NO:** 110765

SAMPLE IDENTIFICATION: TDDFA2400545 **LAB SAMPLE NO:** 298880

SOURCE OF SAMPLE: Boral Cement - Berrima **DATE SAMPLED:** 08/02/2024

DATE RECEIVED: 20/02/2024

IDENTIFICATION OF CEMENT USED: Boral Cement SL Berrima Ref. 2022

TEST METHOD: AS 3583: Methods of test for supplementary cementitious materials for use with Portland cement

PROPERTY	DATE TESTED	RESULT	TEST METHOD
Relative density	27/02/2024	2.12	AS 3583.5
Relative water requirement	29/02/2024	101%	AS 3583.6
Relative strength 7 days (accelerated)	07/03/2024	96%	AS 3583.6

Note:

- Sample supplied by the client and tested as received.

Marc Smith, Parisa Sowti, Violeta Paicu, Mat. File, File

Approved signatory _____ Sam El-Hamawi

Date 18/03/2024 Serial no. CEM110765.SE.1

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TEST REPORT

CLIENT: BORAL CEMENT – TECHNICAL
39 Delhi Road, North Ryde, NSW 2113.

FILE No.:50/24

PROJECT: Testing of Fly ash samples for R.W, R.S, Density and Available Alkali.

REQUEST No.: 110765

TEST PROCEDURE:
AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.:	298880
Date Sampled:	08/02/2024
Date Received:	20/02/2024
Date Tested:	22/03/2024
Sample Description:	TDDFA2400545
Field No.:	1

TEST RESULTS:

Sodium as Na_2O (%)	0.01
Potassium as K_2O (%)	0.06
Available Alkali (%)	< 0.1

Available Alkali (%) = Na_2O (%) + (0.658 x K_2O %)

Note:

- Sample was provided by the Client and tested as received.

Marc Smith, Parisa Sowti, Violeta Paicu, Mat.File, File.

Approved signatory _____ Nanthini Selvadurai

Date 22-03-24 Serial no. CHEM110765.NS 1

NATA Accredited Laboratory
Number: 9968