FINAL REPORT

CERTIFICATE No.: 24665



Boral Cement Limited N 62 008 528 523 Taylor Avenue New Berrima NSW 2577 Locked Bag 4 New Berrima NSW 2577 T +61 2 4860 2222

TEST CERTIFICATE OF:	Tarong Daily Despatch Grade 1 Fly Ash
PRODUCED AT:	Boral Cement Limited Tarong
TESTED AT:	Berrima Works Laboratory
SAMPLE IDENTIFICATION:	TDDFA2300893
DATE DESPATCHED:	2/03/2023

PROPERTY	REQUIRE	IENTS OF AS 3582.1 - Grade 1	RESULT	
Fineness (AS 3583.3)	≥	75 %	88 %	
LOI (AS 3583.3)	≤	4.0 %	2.0 %	
Moisture (AS 3583.2)	≤	0.5 %	< 0.1 %	
SO ₃ (AS 2350.2)	≤	3.0 %	< 0.1 %	
SiO ₂ (AS 2350.2)			73.8 %	
Al ₂ O ₃ (AS 2350.2)			20.5 %	
Fe ₂ O ₃ (AS 2350.2)			1.9 %	
Chemical Composition (AS 2350.2)	≥	70 %	96 %	
Total Alkali (AS 2350.2)			0.4 %	
CI (AS 2350.2)	≤	0.1 %	< 0.01 %	

REMARKS

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

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Marc Smith Technical Services Manager

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Boral Construction Materials Materials Technical Services

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TEST REPORT – FLYASH

CLIENT:	BORAL CEMEN	IT – (TECHNICAL)	FILE NO:	50/23
ADDRESS: 39 Delhi Road, North Ryde, NSW 2113		REQUEST NO:	104909	
SAMPLE ID	ENTIFICATION:	TDDFA2300893	LAB SAMPLE NO:	281185
SOURCE OF	SAMPLE:	Boral Cement - Berrima	DATE SAMPLED:	02/03/2023
			DATE RECEIVED:	23/03/2023

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	05/04/2023	2.10	AS 3583.5
Relative water requirement	06/04/2023	102%	AS 3583.6
Relative strength 7 days (accelerated)	13/04/2023	96%	AS 3583.6

Note:

• Sample supplied by the client and tested as received.

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

Approved Signatory Alius C Date 1910412023	- Awaw	Julius Alvaro
Approved signatory	· · · · · · · · · · · · · · · · · · ·	
Date <u>1910412023</u>	Serial No	_CEM104909.JA.1



NATA Accredited Laboratory Number: 547

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FILE No.:50/23

REQUEST No.: 104909

TEST REPORT

- CLIENT: BORAL CEMENT TECHNICAL 39 Delhi Road, North Ryde, NSW 2113.
- PROJECT: Testing of Fly ash samples for R.W, R.S, Density and Available Alkali.

TEST PROCEDURE:

AS 3583.12 - 1991 - Determination of Available Alkali

Laboratory Sample No.:	281185
Date Sampled:	02/03/2023
Date Received:	23/03/2023
Date Tested:	28/04/2023
Sample Description:	TDDFA2300893
Field No.:	1

TEST RESULTS:

Sodium as Na₂O (%)	0.01
Potassium as K ₂ O (%)	0.08
Available Alkali (%)	0.1

Available Alkali (%) = Na₂O (%) + (0.658 x K₂O %)

Note:

Sample was provided by the Client and tested as received.

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



Approved Signatory	118	Nanthini Selvadurai
Date 28-64-23	_Serial No	CHEM104909.NS.1

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