FINAL REPORT

CERTIFICATE No.: 25429



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:	TDDFA2304653	
DATE DESPATCHED:	6/10/2023	

			550117
PROPERTY	REQUIREN	IENTS OF AS 3582.1 - Grade 1	RESULT
Fineness (AS 3583.1)	≥	75 %	87 %
LOI (AS 3583.3)	≤	4.0 %	1.6 %
Moisture (AS 3583.2)	5	0.5 %	0.2 %
SO ₃ (AS 2350.2)	≤	3.0 %	< 0.1 %
SiO ₂ (AS 2350.2)			72.8 %
Al ₂ O ₃ (AS 2350.2)			21.8 %
Fe ₂ O ₃ (AS 2350.2)			1.7 %
Chemical Composition (AS 2350.2)	≥	70 %	96 %
Total Alkali (AS 2350.2)			0.3 %
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:	108911		
SAMPLE ID	ENTIFICATION:	TDDFA2304653		LAB SAMPLE NO:	293507
SOURCE OF	SAMPLE:	Boral Cement - Berrima		DATE SAMPLED:	06/10/2023
				DATE RECEIVED:	07/11/2023

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	14/11/2023	2.11	AS 3583.5
Relative water requirement	16/11/2023	102%	AS 3583.6
Relative strength 7 days (accelerated)	23/11/2023	98%	AS 3583.6

Note:

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Sample supplied by the client and tested as received.

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

	1.1	
Approved Signatory	φ	Sam El-Hamawi
Date 4/12/23	/ Serial No	CEM108911.SE.1



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FILE No.:50/23

REQUEST No.: 108911

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.:	283507
Date Sampled:	06/10/2023
Date Received:	07/11/2023
Date Tested:	12/12/2023
Sample Description:	TDDFA2304653
Field No.:	1

TEST RESULTS:

Sodium as Na ₂ O (%)	0.01
Potassium as K ₂ O (%)	0.07
Available Alkali (%)	0.1

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

AD

Note:

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

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

ACCREDITED FOR TECHNICAL COMPETENCE

	Nanthini Selvadurai
Date 12 - 12 - 23 Serial No	CHEM108911.NS.1

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