

FINAL REPORT

CERTIFICATE No.: 25653



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: TDDFA2400211
DATE DESPATCHED: 11/01/2024

PROPERTY	REQUIREMENTS OF AS 3582.1 - Grade 1	RESULT
Fineness (AS 3583.1)	≥ 75 %	91 %
LOI (AS 3583.3)	≤ 4.0 %	2.0 %
Moisture (AS 3583.2)	≤ 0.5 %	0.2 %
SO ₃ (AS 2350.2)	≤ 3.0 %	< 0.1 %
SiO ₂ (AS 2350.2)		67.6 %
Al ₂ O ₃ (AS 2350.2)		25.7 %
Fe ₂ O ₃ (AS 2350.2)		2.3 %
Chemical Composition (AS 2350.2)	≥ 70 %	96 %
Total Alkali (AS 2350.2)		0.5 %
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: 110276

SAMPLE IDENTIFICATION: TDDFA2400211

LAB SAMPLE NO: 297709

SOURCE OF SAMPLE: Boral Cement - Berrima

DATE SAMPLED: 11/01/2024

DATE RECEIVED: 30/01/2024

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	31/01/2024	2.11	AS 3583.5
Relative water requirement	01/02/2024	100%	AS 3583.6
Relative strength 7 days (accelerated)	08/02/2024	95%	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

19/02/2024

Serial no.

CEM110276.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.: 110276

TEST PROCEDURE:

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 297709
Date Sampled: 11/01/2024
Date Received: 30/01/2024
Date Tested: 15/03/2024
Sample Description: TDDFA2400211

Field No.: 1

TEST RESULTS:

Sodium as Na₂O (%) 0.01
Potassium as K₂O (%) 0.11
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, Mat.File, File.

Approved signatory

Nanthini Selvadurai

Date 15 - 03 - 24

Serial no.

CHEM110276.NS 1



NATA Accredited Laboratory
Number: 9968