

FINAL REPORT

CERTIFICATE No.: 25267



Boral Cement Limited

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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: TDDFA2303688
DATE DESPATCHED: 6/09/2023

PROPERTY	REQUIREMENTS OF AS 3582.1 - Grade 1	RESULT
Fineness (AS 3583.1)	≥ 75 %	88 %
LOI (AS 3583.3)	≤ 4.0 %	2.2 %
Moisture (AS 3583.2)	≤ 0.5 %	< 0.1 %
SO ₃ (AS 2350.2)	≤ 3.0 %	< 0.1 %
SiO ₂ (AS 2350.2)		67.8 %
Al ₂ O ₃ (AS 2350.2)		26.4 %
Fe ₂ O ₃ (AS 2350.2)		0.7 %
Chemical Composition (AS 2350.2)	≥ 70 %	95 %
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

A handwritten signature in blue ink, appearing to read "Marc Smith".

Marc Smith
Technical Services Manager

**Boral Construction Materials
Materials Technical Services**Unit 4, 3-5 Gibbon Road
Baulkham Hills NSW 2153 Australia

PO Box 400, Winston Hills NSW 2153

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boral.com.au**TEST REPORT – FLYASH****CLIENT:** BORAL CEMENT – (TECHNICAL)**FILE NO:** 50/23**ADDRESS:** 39 Delhi Road, North Ryde, NSW 2113**REQUEST NO:** 108527**SAMPLE IDENTIFICATION:** TDDFA2303688**LAB SAMPLE NO:** 292519**SOURCE OF SAMPLE:** Boral Cement - Berrima**DATE SAMPLED:** 06/09/2023**DATE RECEIVED:** 18/09/2023**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	01/11/2023	2.08	AS 3583.5
Relative water requirement	02/11/2023	101%	AS 3583.6
Relative strength 7 days (accelerated)	09/11/2023	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

20/11/23

Serial No.

CEM108527.SE.1

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Test results in this Test Report relate only to the samples tested.**NATA Accredited Laboratory
Number: 547**



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TEST REPORT

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

FILE No.:50/23

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

REQUEST No.: 108527

TEST PROCEDURE:

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 282519
Date Sampled: 06/09/2023
Date Received: 18/09/2023
Date Tested: 17/11/2023
Sample Description: TDDFA2303688
Field No.: 1

TEST RESULTS:

Sodium as Na₂O (%) < 0.01
Potassium as K₂O (%) 0.07
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 Koehler, Mat.File, File.

Nanthini Selvadurai

Approved Signatory

Date 17-11-23

Serial No. CHEM108527.NS.1



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