### **FINAL REPORT**

CERTIFICATE No.: 25097



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: TDDFA2302793
DATE DESPATCHED: 13/07/2023

PROPERTY	REQUIRE	MENTS OF AS 3582.1 - Grade 1	RESULT
Fineness (AS 3583.3)	2	75 %	85 %
LOI (AS 3583.3)	≤	4.0 %	2.1 %
Moisture (AS 3583.2)	≤	0.5 %	< 0.1 %
SO <sub>3</sub> (AS 2350.2)	≤	3.0 %	< 0.1 %
SiO <sub>2</sub> (AS 2350.2)			71.3 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)			23.7 %
Fe <sub>2</sub> O <sub>3</sub> (AS 2350.2)			0.5 %
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.

NATA

Accredited for compliance with ISO/IEC 17025 - Testing

Marc Smith
Technical Services Manager

NATA Accreditation Number: 530 / 531 Page 1 of 1 Date of Issue: 16/08/2023



# **Boral Construction Materials Materials Technical Services**

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## **TEST REPORT - FLYASH**

**CLIENT:** 

BORAL CEMENT - (TECHNICAL)

FILE NO:

50/23

ADDRESS:

39 Delhi Road, North Ryde, NSW 2113

**REQUEST NO:** 

107151

SAMPLE IDENTIFICATION:

TDDFA2302793

LAB SAMPLE NO:

287989

**SOURCE OF SAMPLE:** 

Boral Cement - Berrima

**DATE SAMPLED:** 

13/07/2023

DATE RECEIVED:

01/08/2023

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 Relative water requirement Relative strength 7 days (accelerated)	02/08/2023	2.06	AS 3583.5
	20/07/2023	102%	AS 3583.6
	10/08/2023	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

Sam El-Hamawi

Serial No.

CEM107151 SE 2

ILAC-MRA



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Report Template - Rev. (3) July 2021 - Authorised by M.A.



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### 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.

FILE No.:50/23

REQUEST No.: 107151

### **TEST PROCEDURE:**

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.:

287988

Date Sampled:

06/07/2023

Date Received:

01/08/2023

Date Tested:

08/09/2023

Sample Description:

TDDFA2302794

Field No.:

1

### **TEST RESULTS:**

Sodium as Na<sub>2</sub>O (%)

0.02

Potassium as K<sub>2</sub>O (%)

0.05

Available Alkali (%)

0.1

Available Alkali (%) = Na<sub>2</sub>O (%) + (0.658 x K<sub>2</sub>O %)

#### 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

Approved Signatory\_

Nanthini Selvadurai

Date 08 -09 - 23

Serial No. \_\_\_\_\_

CHEM107151.NS.1