## **FINAL REPORT**

**CERTIFICATE No.:** 25479



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: TDDFA2304953

DATE DESPATCHED: 9/11/2023

PROPERTY	REQUIRE	MENTS OF AS 3582.1 - Grade 1	RESULT
Fineness (AS 3583.1)	2	75 %	90 %
LOI (AS 3583.3)	≤	4.0 %	2.4 %
Moisture (AS 3583.2)	≤	0.5 %	0.2 %
SO <sub>3</sub> (AS 2350.2)	≤	3.0 %	0.1 %
SiO <sub>2</sub> (AS 2350.2)			74.6 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)			19.9 %
Fe <sub>2</sub> O <sub>3</sub> (AS 2350.2)			1.3 %
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.

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: 12/01/2024



# **Boral Construction Materials Materials Technical Services**

Unit 4, 3–5 Gibbon Road Baulkham Hills NSW 2153 Australia

PO Box 400, Winston Hills NSW 2153

T +61 (02) 9624 9900

boral.com.au

## TEST REPORT - FLYASH

CLIENT:

BORAL CEMENT -- (TECHNICAL)

FILE NO:

50/23

ADDRESS:

39 Delhi Road, North Ryde, NSW 2113

**REQUEST NO:** 

109329

**SAMPLE IDENTIFICATION:** 

TDDFA2304953

LAB SAMPLE NO:

295015

SOURCE OF SAMPLE:

Boral Cement - Berrima

**DATE SAMPLED:** 

09/11/2023

DATE RECEIVED:

28/11/2023

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

DATE TESTED	RESULT	TEST METHOD
06/12/2023	2.10	AS 3583.5
07/12/2023	101%	AS 3583.6
14/12/2023	98%	AS 3583.6
	06/12/2023 07/12/2023	06/12/2023 2.10 07/12/2023 101%

### Note:

Sample supplied by the client and tested as received.

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

Sam El-Hamawi

Serial No.

CEM109329.SE.1





Page 1 of 1

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



#### **Boral Construction Materials Materials Technical Services**

Unit 4, 3-5 Gibbon Road Baulkham Hills NSW 2153 Australia PO Box 400, Winston Hills NSW 2153

T: +61 (02) 9624 9900 F: +61 (02) 9624 9999

www.boral.com.au

# 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.: 109329

## **TEST PROCEDURE:**

AS 3583.12 - 1991 - Determination of Available Alkali

Laboratory Sample No.:

295015

Date Sampled:

09/11/2023

Date Received:

28/11/2023

Date Tested:

02/01/2024

Sample Description:

TDDFA2304953

Field No.:

## **TEST RESULTS:**

Sodium as Na <sub>2</sub> O (%)	0.01
Potassium as K <sub>2</sub> O (%)	0.09
Available Alkali (%)	0.1

Available Alkali (%) =  $Na_2O$  (%) + (0.658 x  $K_2O$  %)

## Note:

Sample was provided by the Client and tested as received.

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

Approved Signatory

Date 03 - 01-24

CHEM109329.NS.1

Nanthini Selvadurai

Number: 9968