FINAL REPORT

CERTIFICATE No.: 24613



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: TDDFA2300718
DATE DESPATCHED: 2/02/2023

PROPERTY	REQUIREM	MENTS OF AS 3582.1 - Grade 1	RESULT
Fineness (AS 3583.3)	2	75 %	91 %
LOI (AS 3583.3)	≤	4.0 %	2.1 %
Moisture (AS 3583.2)	≤	0.5 %	< 0.1 %
SO ₃ (AS 2350.2)	≤	3.0 %	0.1 %
SiO ₂ (AS 2350.2)			73.7 %
Al ₂ O ₃ (AS 2350.2)			20.7 %
Fe ₂ O ₃ (AS 2350.2)			1.2 %
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: 13/04/2023

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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:

104637

SAMPLE IDENTIFICATION:

TDDFA2300718

LAB SAMPLE NO:

280516

SOURCE OF SAMPLE:

Boral Cement - Berrima

DATE SAMPLED:

02/02/2023

DATE RECEIVED:

06/03/2023

IDENTIFICATION OF CEMENT USED: Boral Cement SL Berrima Ref. 2019

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)	27/03/2023	2.13	AS 3583.5
	30/03/2023	101%	AS 3583.6
	06/04/2023	93%	AS 3583.6

Note:

Date.

Sample supplied by the client and tested as received.

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

Julius Alvaro **Approved Signator** 104 CEM104637.JA.1

Serial No.



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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.: 104637

TEST PROCEDURE:

AS 3583.12 - 1991 - Determination of Available Alkali

Laboratory Sample No.:

280516

Date Sampled:

02/02/2023

Date Received:

06/03/2023

Date Tested:

18/04/2023

Sample Description:

TDDFA2300718

Field No.:

1

TEST RESULTS:

Sodium as Na ₂ O (%)	0.02	
Potassium as K ₂ O (%)	0.12	
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 18-04-23

Nanthini Selvadurai

___ Serial No. _

rial No. CHEM104637.NS.1

Number: 9968