FINAL REPORT

CERTIFICATE No.: 24767



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: TDDFA2301291
DATE DESPATCHED: 5/04/2023

PROPERTY	REQUIRE	MENTS OF AS 3582.1 - Grade 1	RESULT
Fineness (AS 3583.3)	2	75 %	85 %
LOI (AS 3583.3)	≤	4.0 %	2.2 %
Moisture (AS 3583.2)	≤	0.5 %	< 0.1 %
SO ₃ (AS 2350.2)	≤	3.0 %	< 0.1 %
SiO ₂ (AS 2350.2)			72.4 %
Al ₂ O ₃ (AS 2350.2)			21.7 %
Fe ₂ O ₃ (AS 2350.2)			1.6 %
Chemical Composition (AS 2350.2)	≥	70 %	96 %
Total Alkali (AS 2350.2)			0.5 %
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: 5/05/2023



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:

105278

SAMPLE IDENTIFICATION:

TDDFA2301291

LAB SAMPLE NO:

282375

SOURCE OF SAMPLE:

Boral Cement - Berrima

DATE SAMPLED:

05/04/2023

DATE RECEIVED:

17/04/2023

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	20/04/2023	2.06	AS 3583.5	
Relative water requirement	04/05/2023	101%	AS 3583.6	
Relative strength 7 days (accelerated)	11/05/2023	92%	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 Solius C. Alvaus Julius Alvaro

Date 12/05/2023 Serial No. CEM105278.JA.2





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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.: 105278

TEST PROCEDURE:

AS 3583.12 - 1991 - Determination of Available Alkali

Laboratory Sample No.:

282375

Date Sampled:

05/04/2023

Date Received:

17/04/2023

Date Tested:

18/05/2023

Sample Description:

TDDFA2301291

Field No .:

2

TEST RESULTS:

Sodium as Na₂O (%)

0.01

Potassium as K₂O (%)

0.10

Available Alkali (%)

0.1

Available Alkali (%) = Na₂O (%) + (0.658 x K₂O %)

Note:

Date_

Sample was provided by the Client and tested as received.

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



Approved Signatory 19-05 -23

Nanthini Selvadurai

Serial No.

CHEM105278.NS.1