FINAL REPORT

CERTIFICATE No.: 24973



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: TDDFA2302228

DATE DESPATCHED: 6/06/2023

PROPERTY	REQUIRE	MENTS OF AS 3582.1 - Grade 1	RESULT
Fineness (AS 3583.3)	2	75 %	82 %
LOI (AS 3583.3)	≤	4.0 %	1.9 %
Moisture (AS 3583.2)	≤	0.5 %	< 0.1 %
SO ₃ (AS 2350.2)	≤	3.0 %	< 0.1 %
SiO ₂ (AS 2350.2)			70.0 %
Al ₂ O ₃ (AS 2350.2)			23.8 %
Fe ₂ O ₃ (AS 2350.2)			1.9 %
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: 28/07/2023



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:

106513

SAMPLE IDENTIFICATION:

TDDFA2302228

LAB SAMPLE NO:

286116

SOURCE OF SAMPLE:

Boral Cement - Berrima

DATE SAMPLED:

06/06/2023

DATE RECEIVED:

26/06/2023

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)	30/06/2023	2.07	AS 3583.5	
	06/07/2023	100%	AS 3583.6	
	13/07/2023	91%	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.

CEM106513.SE.1





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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.: 106513

TEST PROCEDURE:

AS 3583.12 - 1991 - Determination of Available Alkali

Laboratory Sample No .:

286116

Date Sampled:

06/06/2023

Date Received:

26/06/2023

Date Tested:

28/07/2023

Sample Description:

TDDFA2302228

Field No.:

1

TEST RESULTS:

Sodium as Na₂O (%)

0.03

Potassium as K₂O (%)

0.14

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 Koehier, Mat. File, File.

NATA

ACCREDITED FOR
TECHNICAL
COMPETENCE

Approved Signatory 1

Test results in this Test Report relate only to the samples tested

_Serial No.

CHEM106513.NS.1

Nanthini Selvadurai