FINAL REPORT

CERTIFICATE No.: 25194



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: TDDFA2303357

DATE DESPATCHED: 3/08/2023

PROPERTY	REQUIRE	MENTS OF AS 3582.1 - Grade 1	RESULT
Fineness (AS 3583.1)	2	75 %	87 %
LOI (AS 3583.3)	≤	4.0 %	1.8 %
Moisture (AS 3583.2)	≤	0.5 %	< 0.1 %
SO ₃ (AS 2350.2)	≤	3.0 %	< 0.1 %
SiO ₂ (AS 2350.2)			73.1 %
Al ₂ O ₃ (AS 2350.2)			22.3 %
Fe ₂ O ₃ (AS 2350.2)			0.6 %
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: 8/09/2023



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:

107643

SAMPLE IDENTIFICATION:

TDDFA2303357

LAB SAMPLE NO:

289446

SOURCE OF SAMPLE:

Boral Cement - Berrima

DATE SAMPLED:

03/08/2023

DATE RECEIVED:

29/08/2023

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)	05/09/2023	2.09	AS 3583.5
	07/09/2023	102%	AS 3583.6
	14/09/2023	90%	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

Date

____ Serial No.

CEM107643.SE.1

Sam El-Hamawi

IBC MR



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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.: 107643

TEST PROCEDURE:

AS 3583.12 - 1991 - Determination of Available Alkali

Laboratory Sample No.:

289446

Date Sampled:

03/08/2023

Date Received:

29/08/2023

Date Tested:

03/10/2023

Sample Description:

TDDFA2303357

Field No.:

1

TEST RESULTS:

Sodium as Na ₂ O (%)	0.01
Potassium as K ₂ O (%)	0.10
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.

ACCREDITED FOR TECHNICAL COMPETENCE

Approved Signatory__

Nanthini Selvadurai

Date 04 - 10 - 23 Serial No.

CHEM107643.NS.1