FINAL REPORT

CERTIFICATE No.: 24590



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: Geelong Daily Despatch Environment

PRODUCED AT: Boral Cement Limited Geelong

TESTED AT: Berrima Works Laboratory

SAMPLE IDENTIFICATION: GDDNM2300604

DATE DESPATCHED: 11/02/2023

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.4 %
LOI (AS 3583.3)		0.6 %
SO ₃ (AS 2350.2; TM 10.01.07)		0.1 %
MgO (AS 2350.2)	≤ 15.0 %	5.1 %
Al ₂ O ₃ (AS 2350.2)	≤ 18.0 %	14.3 %
Fe ₂ O ₃ (AS 2350.2) expressed as FeO *		0.9 % 0.8 %
Mn ₂ O ₃ (AS 2350.2) expressed as MnO *		0.2 % 0.1 %
Total Alkali (AS 2350.2)		0.4 %
CI (AS 2350.2)	≤ 0.1 %	< 0.01 %
45μm Residue (AS 3583.1)		1.7 %
Fineness Index (AS 2350.8)		500 m ² /kg

REMARKS

Sampling not carried out by laboratory. Samples tested as received.

* NATA accreditation does not cover the performance of this service.

NATA

Marc Smith
Technical Services Manager

Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accreditation Number: 530 / 531 Page 1 of 1 Date of Issue: 23/03/2023



Boral Construction Materials Materials Technical Services

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TEST REPORT - MILLED SLAG

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CLIENT: BORAL CEMENT – (TECHNICAL) FILE NO: 50/23

ADDRESS: 39 Delhi Road, North Ryde, NSW 2113 REQUEST NO: 104526

LAB SAMPLE NO: 280283

SOURCE OF SAMPLE: Boral Cement - Geelong

DATE RECEIVED: 28/02/2023

SAMPLE IDENTIFICATION: Environment ID # GDDNM2300604 - Date sampled: 11/02/2023

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	TEST METHOD	RESULT	DATE TESTED
Relative density Relative water requirement Relative strength 7 days (accelerated) Relative strength 28 days (standard)	AS 3583.5	2.85	08/03/2023
	AS 3583.6	102%	09/03/2023
	AS 3583.6	111%	16/03/2023
	AS 3583.6	101%	06/04/2023

Marc Smith, Parisa Sowti, Violeta Paicu, Brad Vanderburg, Stephanie Koehler, Mat File, File

Note:

Approved Signator

Date

Sample was provided by the client and tested as received.

C Cluace Julius Alvaro

Serial No. CEM104526.JA.1





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TEST REPORT

CLIENT:

BORAL CEMENT - TECHNICAL

39 Delhi Road, North Ryde, NSW 2113.

PROJECT:

Testing of Environment Sample from Boral Cement - Geelong.

FILE No.:50/23

REQUEST No.: 104526

TEST PROCEDURE:

AS 3583.12 - 1991 - Determination of Available Alkali

Laboratory Sample No.: 280283

Date Sampled: 11/02/2023

Date Received: 28/02/2023

Date Tested: 06/04/2023

Sample Description: Environment ID #

GDDNM2300604

Field No.:

TEST RESULTS:

Sodium as Na ₂ O (%)	0.07
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.

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

NATA

AGGREDITED FOR
TECHNICAL
COMPETENCE

Approved Signatory_

Nanthini Selvadurai

Serial No

CHEM104526.NS.1

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TEST REPORT

CLIENT:

BORAL CEMENT - TECHNICAL

39 Delhi Road, North Ryde, NSW 2113

PROJECT: Testing of Environment Sample from Boral Cement - Geelong.

FILE No.:50 / 23

REQUEST No.: 104526

TEST PROCEDURE: AS 3583.7 – Determination of Sulfide Sulfur content

Laboratory Sample No.:

280283

Date Sampled:

11/02/2023

Date Received:

28/02/2023

Date Tested:

08/03/2023

Sample Description:

Environment ID#

GDDNM2300604

Field No.:

TEST RESULTS:

Sulfide Sulfur as S (%)

0.20

Sample submitted by the Client.

- Sample was provided by the Client.
- Test results in this test report relate only to the sample tested.
- This report shall not be reproduced except in full without the approval of the Boral MTS Laboratory.

05th April 2023.

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