FINAL REPORT

CERTIFICATE No.: 25018



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: GDDNM2302453

DATE DESPATCHED: 28/06/2023

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.3 %
LOI (AS 3583.3)		0.4 %
SO ₃ (AS 2350.2; TM 10.01.07)		0.0 %
MgO (AS 2350.2)	≤ 15.0 %	7.0 %
Al ₂ O ₃ (AS 2350.2)	≤ 18.0 %	14.0 %
Fe ₂ O ₃ (AS 2350.2) expressed as FeO *		1.0 % 0.9 %
Mn ₂ O ₃ (AS 2350.2) expressed as MnO *		0.2 % 0.2 %
Total Alkali (AS 2350.2)		0.4 %
CI (AS 2350.2)	≤ 0.1 %	< 0.01 %
45μm Residue (AS 3583.1)		1.6 %
Fineness Index (AS 2350.8)		520 m²/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: 28/07/2023





Boral Construction Materials Materials Technical Services

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PO Box 400, Winston Hills NSW 2153

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TEST REPORT - MILLED SLAG

boral.com.au

CLIENT:

BORAL CEMENT - (TECHNICAL)

FILE NO: 50/23

ADDRESS:

39 Delhi Road, North Ryde, NSW 2113

REQUEST NO:

106769

LAB SAMPLE NO: 286794

SOURCE OF SAMPLE: Boral Cement - Geelong

DATE RECEIVED: 10/07/2023

SAMPLE IDENTIFICATION: Environment ID # GDDNM2302453 - Date sampled: 28/06/2023

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	AS 3583.5	2.88	11/07/2023
Relative water requirement	AS 3583.6	101%	13/07/2023
Relative strength 7 days (accelerated)	AS 3583.6	102%	20/07/2023
Relative strength 28 days (standard)	AS 3583.6	99%	10/08/2023

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

Note:

Sample supplied by the client and tested as received.

Approved Signatory

Sam El-Hamawi

Serial No.

CEM106769.SE.1





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Page 1 of 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.: 106769

TEST PROCEDURE:

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.:

286794

Date Sampled:

28/06/2023

Date Received:

10/07/2023

Date Tested:

15/08/2023

Sample Description:

Environment ID#

GDDNM2302453

Field No .:

TEST RESULTS:

Sodium as Na ₂ O (%)	0.06	
Potassium as K ₂ O (%)	0.08	
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.



Approved Signatory 15-08-23

Serial No.

CHEM106769.NS.1

Nanthini Selvadurai

Page 1 of 1

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TEST REPORT

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CLIENT:

BORAL CEMENT - TECHNICAL

39 Delhi Road, North Ryde, NSW 2113.

FILE No.:50 / 23

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

REQUEST No.: 106769

TEST PROCEDURE: AS 3583.7 – Determination of Sulfide Sulfur content

Laboratory Sample No.:

286794

Date Sampled:

28/06/2023

Date Received:

10/07/2023

Date Tested:

07/08/2023

Sample Description:

Environment ID#

GDDNM2302453

Field No.:

TEST RESULTS:

Sulfide Sulfur as S (%)

0.19

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.

10th August 2023.

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