

## FINAL REPORT

CERTIFICATE No.: 26478



Boral Cement Limited

ABN 62 008 528 523

Taylor Avenue New Berrima NSW 2577

Locked Bag 4 New Berrima NSW 2577

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**TEST CERTIFICATE OF:** Geelong Daily Despatch Enviroment  
**PRODUCED AT:** Boral Cement Limited Geelong  
**TESTED AT:** Berrima Works Laboratory  
**SAMPLE IDENTIFICATION:** GDDNM2404644  
**DATE DESPATCHED:** 30/09/2024

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.1 %
LOI (AS 3583.3)		-0.4 %
SO <sub>3</sub> (AS 2350.2; TM 10.01.07)		2.4 %
MgO (AS 2350.2)	≤ 15.0 %	4.9 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)	≤ 18.0 %	13.0 %
Fe <sub>2</sub> O <sub>3</sub> (AS 2350.2)		1.0 %
expressed as FeO *		0.9 %
Mn <sub>2</sub> O <sub>3</sub> (AS 2350.2)		0.2 %
expressed as MnO *		0.2 %
Total Alkali (AS 2350.2)		0.4 %
Cl (AS 2350.2)	≤ 0.1 %	0.01 %
Fineness passing 45µm sieve (AS 3583.1)		99 %
Fineness Index (AS/NZ 2350.8)		405 m <sup>2</sup> /kg

### REMARKS

Sampling not carried out by laboratory. Samples tested as received and results only relate to the item tested.

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



Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accreditation Number: 530 / 531

Page 1 of 1

Jason Nairn  
National Technical Manager

Date of Issue: 7/11/2024



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Page 1 of 1

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**Boral Construction Materials**  
Materials Technical Services

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Winston Hills NSW 2153

T +61 (02) 9624 9900  
**boral.com.au**

### TEST REPORT – MILLED SLAG

**CLIENT:** BORAL CEMENT – (TECHNICAL)

**FILE NO:** 50/24

**ADDRESS:** 39 Delhi Road, North Ryde, NSW 2113

**REQUEST NO:** 115065

**LAB SAMPLE NO:** 311156

**SOURCE OF SAMPLE:** Boral Cement - Geelong

**DATE RECEIVED:** 08/10/2024

**SAMPLE IDENTIFICATION:** Enviroment ID # GDDNM2404644 - Date sampled: 30/09/2024

**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	TEST METHOD	RESULT	DATE TESTED
Relative density	AS 3583.5	2.89	16/10/2024
Relative water requirement	AS 3583.6	99%	17/10/2024
Relative strength 7 days (accelerated)	AS 3583.6	106%	24/10/2024
Relative strength 28 days (standard)	AS 3583.6	100%	14/11/2024

Melody mancenido, Violeta Paicu, Jason Nairn, Mat File, File

**Note:**

- Sample supplied by the client and tested as received.

Approved signatory

Sam El-Hamawi

CEM115065.SE.1

Date

16/11/2024

Serial no.



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

NATA Accredited Laboratory  
Number: 547



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## TEST REPORT

CLIENT: BORAL CEMENT – TECHNICAL  
39 Delhi Road, North Ryde, NSW 2113.

FILE No.:50/24

PROJECT: Testing of Enviroment Sample from Boral Cement – Geelong.

REQUEST No.: 115065

### **TEST PROCEDURE:**

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 311156  
Date Sampled: 30/09/2024  
Date Received: 08/10/2024  
Date Tested: 23/11/2024  
Sample Description: Enviroment ID #  
GDDNM2404644  
Field No.: 1

### **TEST RESULTS:**

Sodium as Na<sub>2</sub>O (m/m %) 0.05  
Potassium as K<sub>2</sub>O (m/m %) 0.09  
Available Alkali (m/m %) 0.1

Available Alkali (m/m %) = Na<sub>2</sub>O (%) + (0.658 x K<sub>2</sub>O %)

### **Note:**

- Sample was provided by the Client and tested as received.

Violeta Paicu, Melody Mancenido, Jason Nairn, Mat.File, File.

Approved signatory

Nanthini Selvadurai

Date 25-11-24

Serial no. CHEM115065.NS.1





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## TEST REPORT

CLIENT: BORAL CEMENT – TECHNICAL  
39 Delhi Road, North Ryde, NSW 2113.

FILE No.:50 / 24

PROJECT: Testing of Enviroment Sample from Boral Cement – Geelong.

REQUEST No.: 115065

**TEST PROCEDURE:** AS 3583.7 – Determination of Sulfide Sulfur content

Laboratory Sample No.: 311156  
Date Sampled: 30/09/2024  
Date Received: 08/10/2024  
Date Tested: 17/10/2024  
Sample Description: Enviroment ID #  
GDDNM2404644  
Field No.: 1

## TEST RESULTS:

Sulfide Sulfur as S (%) 0.69

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.

Nanthini S  
08<sup>th</sup> November 2024.

Violeta Paicu, Melody Mancenido, Jason Nairn, Mat.File, File.