

## FINAL REPORT

CERTIFICATE No.: 26343



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 Environment  
PRODUCED AT: Boral Cement Limited Geelong  
TESTED AT: Berrima Works Laboratory  
SAMPLE IDENTIFICATION: GDDNM2403810  
DATE DESPATCHED: 8/19/2024

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.1 %
LOI (AS 3583.3)		1.0 %
SO <sub>3</sub> (AS 2350.2; TM 10.01.07)		2.8 %
MgO (AS 2350.2)	≤ 15.0 %	5.3 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)	≤ 18.0 %	14.1 %
Fe <sub>2</sub> O <sub>3</sub> (AS 2350.2)		0.6 %
expressed as FeO *		0.5 %
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)		485 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

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Jason Nairn  
National Technical Manager

Date of Issue: 9/13/2024



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**Boral Construction Materials**  
Materials Technical Services

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### TEST REPORT – MILLED SLAG

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

**FILE NO:** 50/24

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

**REQUEST NO:** 114248

**LAB SAMPLE NO:** 308366

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

**DATE RECEIVED:** 22/08/2024

**SAMPLE IDENTIFICATION:** Enviroment ID # GDDNM2403810 - Date sampled: 19/08/2024

**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	2.85	04/09/2024
Relative water requirement	AS 3583.6	101%	05/09/2024
Relative strength 7 days (accelerated)	AS 3583.6	100%	12/09/2024
Relative strength 28 days (standard)	AS 3583.6	100%	03/10/2024

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

**Note:**

- Sample supplied by the client and tested as received.

Approved signatory

Sam El-Hamawi

Date

04/10/2024

Serial no.

CEM114248.SE.1

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



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## TEST REPORT

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

FILE No.:50/24

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

REQUEST No.: 114248

### TEST PROCEDURE:

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 308366  
Date Sampled: 19/08/2024  
Date Received: 22/08/2024  
Date Tested: 19/09/2024  
Sample Description: Environment ID #  
GDDNM2403810  
Field No.: 1

### TEST RESULTS:

Sodium as Na<sub>2</sub>O (m/m %) 0.07  
Potassium as K<sub>2</sub>O (m/m %) 0.08  
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.

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

Approved signatory

Nanthini Selvadurai

Date 20-09-24

Serial no. CHEM114248.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 Environment Sample from Boral Cement – Geelong.

REQUEST No.: 114248

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

Laboratory Sample No.: 308366  
Date Sampled: 19/08/2024  
Date Received: 22/08/2024  
Date Tested: 13/09/2024  
Sample Description: Environment ID #  
GDDNM2403810  
Field No.: 1

### TEST RESULTS:

Sulfide Sulfur as S (%) 0.78

Sample submitted by the Client.

- Sample was provided by the Client.
- Test results in this test report relate only to the sample tested.
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Nanthini S  
18<sup>th</sup> September 2024.

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