

# FINAL REPORT

CERTIFICATE No.: 25989



Boral Cement Limited

ABN 62 008 528 523

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**TEST CERTIFICATE OF:** Geelong Daily Despatch Environment  
**PRODUCED AT:** Boral Cement Limited Geelong  
**TESTED AT:** Berrima Works Laboratory  
**SAMPLE IDENTIFICATION:** GDDNM2401912  
**DATE DESPATCHED:** 4/23/2024

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)		2.7 %
MgO (AS 2350.2)	≤ 15.0 %	5.1 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)	≤ 18.0 %	13.9 %
Fe <sub>2</sub> O <sub>3</sub> (AS 2350.2)		0.5 %
expressed as FeO *		0.4 %
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 %	0.02 %
Fineness passing 45µm sieve (AS 3583.1)		99 %
Fineness Index (AS/NZ 2350.8)		465 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

A handwritten signature in blue ink, appearing to read "J. Nairn".

Jason Nairn  
National Technical Manager



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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:** 112286

**LAB SAMPLE NO:** 303090

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

**DATE RECEIVED:** 14/05/2024

**SAMPLE IDENTIFICATION:** Enviroment ID # GDDNM2401912 - Date sampled: 23/04/2024

**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	2.86	15/05/2024
Relative water requirement	AS 3583.6	104%	16/05/2024
Relative strength 7 days (accelerated)	AS 3583.6	92%	23/05/2024
Relative strength 28 days (standard)	AS 3583.6	91%	13/06/2024

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

24/06/2024

Serial no.

CEM112286.SE.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.: 112286

**TEST PROCEDURE:**

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 303090  
Date Sampled: 23/04/2024  
Date Received: 14/05/2024  
Date Tested: 20/06/2024  
Sample Description: Environment ID #  
GDDNM2401912  
Field No.: 1

**TEST RESULTS:**

Sodium as Na<sub>2</sub>O (%) 0.05  
Potassium as K<sub>2</sub>O (%) 0.08  
Available Alkali (%) 0.1

Available Alkali (%) = 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 21-06-24

Serial no. CHEM112286.NS.1



NATA Accredited Laboratory  
Number: 9968



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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.: 112286

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

Laboratory Sample No.: 303090  
Date Sampled: 23/04/2024  
Date Received: 14/05/2024  
Date Tested: 24/05/2024  
Sample Description: Environment ID #  
GDDNM2401912  
Field No.: 1

### TEST RESULTS:

Sulfide Sulfur as S (%) 0.67

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  
24<sup>th</sup> May 2024

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