

## FINAL REPORT

CERTIFICATE No.: 24802



Boral Cement Limited  
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TEST CERTIFICATE OF: Geelong Daily Despatch Environment  
PRODUCED AT: Boral Cement Limited Geelong  
TESTED AT: Berrima Works Laboratory  
SAMPLE IDENTIFICATION: GDDNM2301460  
DATE DESPATCHED: 19/04/2023

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.4 %
LOI (AS 3583.3)		0.5 %
SO <sub>3</sub> (AS 2350.2; TM 10.01.07)		0.0 %
MgO (AS 2350.2)	≤ 15.0 %	5.2 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)	≤ 18.0 %	14.6 %
Fe <sub>2</sub> O <sub>3</sub> (AS 2350.2)		0.8 %
expressed as FeO *		0.7 %
Mn <sub>2</sub> O <sub>3</sub> (AS 2350.2)		0.2 %
expressed as MnO *		0.1 %
Total Alkali (AS 2350.2)		0.4 %
Cl (AS 2350.2)	≤ 0.1 %	< 0.01 %
45µm Residue (AS 3583.1)		1.9 %
Fineness Index (AS 2350.8)		440 m <sup>2</sup> /kg

### REMARKS

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

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



Accredited for compliance with ISO/IEC 17025 - Testing



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Marc Smith  
Technical Services Manager

**TEST REPORT – MILLED SLAG****CLIENT:** BORAL CEMENT – (TECHNICAL)**FILE NO:** 50/23**ADDRESS:** 39 Delhi Road, North Ryde, NSW 2113**REQUEST NO:** 105524**LAB SAMPLE NO:** 283101**SOURCE OF SAMPLE:** Boral Cement - Geelong**DATE RECEIVED:** 03/05/2023**SAMPLE IDENTIFICATION:** Enviroment ID # GDDNM2301460 - Date sampled: 19/04/2023**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	2.87	03/05/2023
Relative water requirement	AS 3583.6	104%	04/05/2023
Relative strength 7 days (accelerated)	AS 3583.6	95%	11/05/2023
Relative strength 28 days (standard)	AS 3583.6	86%	01/06/2023

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

**Note:**

- Sample supplied by the client and tested as received.

Approved Signatory Julius C. Alvaro Julius Alvaro  
Date 05/06/2023 Serial No. CEM105524.JA.1

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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.:50/23

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

REQUEST No.: 105524

**TEST PROCEDURE:**

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 283101  
Date Sampled: 19/04/2023  
Date Received: 03/05/2023  
Date Tested: 09/06/2023  
Sample Description: Enviroment ID #  
GDDNM2301460  
Field No.: 1

**TEST RESULTS:**

Sodium as Na<sub>2</sub>O (%) 0.05  
Potassium as K<sub>2</sub>O (%) 0.10  
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, Marc Smith, Stephanie Koehler, Mat.File, File.



Approved Signatory

Nanthini Selvadurai

Date 09-06-23 Serial No. CHEM105524.NS.1

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Number: 9968



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**TEST REPORT**

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

FILE No.:50 / 23

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

REQUEST No.: 105524

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

Laboratory Sample No.: 283101  
Date Sampled: 19/04/2023  
Date Received: 03/05/2023  
Date Tested: 26/05/2023  
Sample Description: Enviroment ID.#  
GDDNM2301460  
Field No.: 1

**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.
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Nanthini S

31<sup>st</sup> May 2023.

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