

# FINAL REPORT

CERTIFICATE No.: 25843



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:** GDDNM2401107  
**DATE DESPATCHED:** 8/03/2024

| PROPERTY                                   | REQUIREMENTS OF AS 3582.2 | RESULT                 |
|--|---------------------------|------------------------|
| Insoluble Residue (AS 3583.14)             |                           | 0.0 %                  |
| LOI (AS 3583.3)                            |                           | -0.2 %                 |
| 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 %                   | 0.01 %                 |
| Fineness passing 45µm sieve (AS 3583.1)    |                           | 98 %                   |
| Fineness Index (AS/NZ 2350.8)              |                           | 435 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 "Marc Smith".

Marc Smith  
Technical Services 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:** 111411

**LAB SAMPLE NO:** 300726

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

**DATE RECEIVED:** 26/03/2024

**SAMPLE IDENTIFICATION:** Enviroment ID # GDDNM2401107 - Date sampled: 08/03/2024

**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   | 27/03/2024  |
| Relative water requirement             | AS 3583.6   | 103%   | 28/03/2024  |
| Relative strength 7 days (accelerated) | AS 3583.6   | 92%    | 04/04/2024  |
| Relative strength 28 days (standard)   | AS 3583.6   | 89%    | 25/04/2024  |

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

**Note:**

- Sample supplied by the client and tested as received.

Approved signatory \_\_\_\_\_

Sam El-Hamawi

CEM111411.SE.1

Date

26/04/2024

Serial no. \_\_\_\_\_





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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.: 111411

**TEST PROCEDURE:**

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 300726  
Date Sampled: 08/03/2024  
Date Received: 26/03/2024  
Date Tested: 29/04/2024  
Sample Description: Enviroment ID #  
GDDNM2401107  
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, Melody Mancenido, Jason Nairn, Mat.File, File.

Approved signatory

Nanthini Selvadurai

Date 30-04-24

Serial no. CHEM111411.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.: 111411

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

Laboratory Sample No.: 300726  
Date Sampled: 08/03/2024  
Date Received: 26/03/2024  
Date Tested: 29/04/2024  
Sample Description: Enviroment ID #  
GDDNM2401107  
Field No.: 1

### TEST RESULTS:

Sulfide Sulfur as S (%) 0.76

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  
29<sup>th</sup> April 2024

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