

FINAL REPORT

CERTIFICATE No.: 25396



Boral Cement Limited

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TEST CERTIFICATE OF: Geelong Daily Despatch Enviroment
PRODUCED AT: Boral Cement Limited Geelong
TESTED AT: Berrima Works Laboratory
SAMPLE IDENTIFICATION: GDDNM2304392
DATE DESPATCHED: 15/10/2023

| PROPERTY | REQUIREMENTS OF AS 3582.2 | RESULT |
|--|---------------------------|------------------------|
| Insoluble Residue (AS 3583.14) | | 0.1 % |
| LOI (AS 3583.3) | | 0.0 % |
| SO ₃ (AS 2350.2; TM 10.01.07) | | 1.6 % |
| MgO (AS 2350.2) | ≤ 15.0 % | 6.0 % |
| Al ₂ O ₃ (AS 2350.2) | ≤ 18.0 % | 14.4 % |
| Fe ₂ O ₃ (AS 2350.2) | | 0.8 % |
| expressed as FeO * | | 0.7 % |
| Mn ₂ O ₃ (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 2350.8) | | 410 m ² /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

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:** 108906**LAB SAMPLE NO:** 293498**SOURCE OF SAMPLE:** Boral Cement - Geelong**DATE RECEIVED:** 03/11/2023**SAMPLE IDENTIFICATION:** Enviroment ID # GDDNM2304392 - Date sampled: 15/10/2023**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 | 2.88 | 08/11/2023 |
| Relative water requirement | AS 3583.6 | 103% | 09/11/2023 |
| Relative strength 7 days (accelerated) | AS 3583.6 | 105% | 16/11/2023 |
| Relative strength 28 days (standard) | AS 3583.6 | 101% | 07/12/2023 |

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

Note:

- Sample supplied by the client and tested as received.

Approved Signatory



Sam El-Hamawi

Date

11/12/23

Serial No.

CEM108906.SE.1

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

**NATA Accredited Laboratory**
Number: 547



**Boral Construction Materials
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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.: 108906

TEST PROCEDURE:

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 293498
Date Sampled: 15/10/2023
Date Received: 03/11/2023
Date Tested: 12/12/2023
Sample Description: Enviroment ID #
GDDNM2304392
Field No.: 1

TEST RESULTS:

Sodium as Na₂O (%) 0.06
Potassium as K₂O (%) 0.11
Available Alkali (%) 0.1

Available Alkali (%) = Na₂O (%) + (0.658 x K₂O %)

Note:

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

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



Approved Signatory

Nanthini Selvadurai

Date 12 - 12 - 23 Serial No. CHEM108906.NS.1

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NATA Accredited Laboratory

Number: 9968



**Building
something
great**

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.: 108906

TEST PROCEDURE: AS 3583.7 – Determination of Sulfide Sulfur content

Laboratory Sample No.: 293498
Date Sampled: 15/10/2023
Date Received: 03/11/2023
Date Tested: 23/11/2023
Sample Description: Enviroment ID #
GDDNM2304392
Field No.: 1

TEST RESULTS:

Sulfide Sulfur as S (%) 0.58

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

12th November 2023.

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