

## FINAL REPORT

CERTIFICATE No.: 25469



Boral Cement Limited

N 62 008 528 523

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**TEST CERTIFICATE OF:** Geelong Daily Despatch Enviroment  
**PRODUCED AT:** Boral Cement Limited Geelong  
**TESTED AT:** Berrima Works Laboratory  
**SAMPLE IDENTIFICATION:** GDDNM2304830  
**DATE DESPATCHED:** 8/11/2023

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.1 %
LOI (AS 3583.3)		0.2 %
SO <sub>3</sub> (AS 2350.2; TM 10.01.07)		2.8 %
MgO (AS 2350.2)	≤ 15.0 %	5.7 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)	≤ 18.0 %	14.0 %
Fe <sub>2</sub> O <sub>3</sub> (AS 2350.2)		0.9 %
expressed as FeO *		0.8 %
Mn <sub>2</sub> O <sub>3</sub> (AS 2350.2)		0.1 %
expressed as MnO *		0.1 %
Total Alkali (AS 2350.2)		0.3 %
Cl (AS 2350.2)	≤ 0.1 %	< 0.01 %
Fineness passing 45µm sieve (AS 3583.1)		99 %
Fineness Index (AS 2350.8)		455 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

Marc Smith  
Technical Services Manager

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Materials Technical Services**Unit 4, 3-5 Gibbon Road  
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[boral.com.au](http://boral.com.au)**TEST REPORT – MILLED SLAG****CLIENT:** BORAL CEMENT – (TECHNICAL)**FILE NO:** 50/23**ADDRESS:** 39 Delhi Road, North Ryde, NSW 2113**REQUEST NO:** 109184**LAB SAMPLE NO:** 294291**SOURCE OF SAMPLE:** Boral Cement - Geelong**DATE RECEIVED:** 21/11/2023**SAMPLE IDENTIFICATION:** Enviroment ID # GDDNM2304830 - Date sampled: 08/11/2023**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	29/11/2023
Relative water requirement	AS 3583.6	104%	30/11/2023
Relative strength 7 days (accelerated)	AS 3583.6	93%	07/12/2023
Relative strength 28 days (standard)	AS 3583.6	93%	28/12/2023

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

12/01/24

Serial No.

CEM109184.SE.2

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This report shall not be reproduced in full without the approval of the Boral MTS Laboratory.

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.: 109184

**TEST PROCEDURE:**

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 294291  
Date Sampled: 08/11/2023  
Date Received: 21/11/2023  
Date Tested: 20/12/2023  
Sample Description: Enviroment ID #  
GDDNM2304830  
Field No.: 2

**TEST RESULTS:**

Sodium as Na<sub>2</sub>O (%) 0.06  
Potassium as K<sub>2</sub>O (%) 0.09  
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, Mat.File, File.



Approved Signatory 

Nanthini Selvadurai

Date 21 - 12 - 23 Serial No. CHEM109184.NS.2

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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.: 109184

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

Laboratory Sample No.: 294291  
Date Sampled: 08/11/2023  
Date Received: 21/11/2023  
Date Tested: 20/12/2023  
Sample Description: Enviroment ID #  
GDDNM2304830  
Field No.: 2

### TEST RESULTS:

Sulfide Sulfur as S (%) 0.39

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

20<sup>th</sup> December 2023.

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