

## FINAL REPORT

CERTIFICATE No.: 24806



Boral Cement Limited  
N 62 008 528 523  
Taylor Avenue New Berrima NSW 2577  
Locked Bag 4 New Berrima NSW 2577  
T +61 2 4860 2222

TEST CERTIFICATE OF: Geelong Daily Despatch Enviroment  
PRODUCED AT: Boral Cement Limited Geelong  
TESTED AT: Berrima Works Laboratory  
SAMPLE IDENTIFICATION: GDDNM2301465  
DATE DESPATCHED: 25/04/2023

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.5 %
LOI (AS 3583.3)		0.5 %
SO <sub>3</sub> (AS 2350.2; TM 10.01.07)		0.1 %
MgO (AS 2350.2)	≤ 15.0 %	5.1 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)	≤ 18.0 %	14.2 %
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)		0.2 %
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)		1.8 %
Fineness Index (AS 2350.8)		450 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

**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:** 283103**SOURCE OF SAMPLE:** Boral Cement - Geelong**DATE RECEIVED:** 03/05/2023**SAMPLE IDENTIFICATION:** Enviroment ID # GDDNM2301465 - Date sampled: 25/04/2023**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	2.88	03/05/2023
Relative water requirement	AS 3583.6	104%	04/05/2023
Relative strength 7 days (accelerated)	AS 3583.6	92%	11/05/2023
Relative strength 28 days (standard)	AS 3583.6	88%	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 Alvaro

Date

05/06/2023

Serial No.

CEM105524.JA.3

Accredited for compliance with ISO/IEC 17025 – Testing  
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



**Boral Construction Materials  
Materials Technical Services**

Unit 4, 3-5 Gibbon Road  
Baulkham Hills NSW 2153 Australia  
PO Box 400, Winston Hills NSW 2153

T: +61 (02) 9624 9900

F: +61 (02) 9624 9999

www.boral.com.au

**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.: 283103  
Date Sampled: 25/04/2023  
Date Received: 03/05/2023  
Date Tested: 09/06/2023  
Sample Description: Enviroment ID #  
GDDNM2301465  
Field No.: 3

**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.3

NATA Accredited Laboratory

Accredited for compliance with ISO/IEC 17025 - Testing  
This report shall not be reproduced except in full without the approval of the Boral MTS Laboratory  
Test results in this Test Report relate only to the samples tested

Number: 9968



**Boral Construction Materials  
Materials Technical Services**

Unit 4, 3-5 Gibbon Road  
Baulkham Hills NSW 2153 Australia  
PO Box 400, Winston Hills NSW 2153

T: +61 (02) 9624 9900

F: +61 (02) 9624 9999

www.boral.com.au

**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.: 283103  
Date Sampled: 25/04/2023  
Date Received: 03/05/2023  
Date Tested: 26/05/2023  
Sample Description: Enviroment ID #  
GDDNM2301465  
Field No.: 3

**TEST RESULTS:**

Sulfide Sulfur as S (%) 0.26

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

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

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