#### **FINAL REPORT**

CERTIFICATE No.: 24883



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 Environment

PRODUCED AT: Boral Cement Limited Geelong

TESTED AT: Berrima Works Laboratory

SAMPLE IDENTIFICATION: GDDNM2301768
DATE DESPATCHED: 15/05/2023

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.4 %
LOI (AS 3583.3)		-0.8 %
SO <sub>3</sub> (AS 2350.2; TM 10.01.07)		0.0 %
MgO (AS 2350.2)	≤ 15.0 %	6.9 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)	≤ 18.0 %	14.1 %
Fe <sub>2</sub> O <sub>3</sub> (AS 2350.2) expressed as FeO *		1.4 % 1.3 %
Mn <sub>2</sub> O <sub>3</sub> (AS 2350.2) expressed as MnO *		0.2 % 0.2 %
Total Alkali (AS 2350.2)		0.4 %
CI (AS 2350.2)	≤ 0.1 %	< 0.01 %
45μm Residue (AS 3583.1)		1.4 %
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.

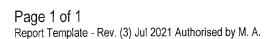
NATA

Marc Smith
Technical Services Manager

Date of Issue: 6/06/2023

Accredited for compliance with ISO/IEC 17025 - Testing

NATA Accreditation Number: 530 / 531 Page 1 of 1





# **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

## TEST REPORT - MILLED SLAG

boral.com.au

CLIENT:

BORAL CEMENT – (TECHNICAL)

**FILE NO**: 50/23

ADDRESS:

39 Delhi Road, North Ryde, NSW 2113

**REQUEST NO: 105876** 

LAB SAMPLE NO: 284177

SOURCE OF SAMPLE: Boral Cement - Geelong

**DATE RECEIVED:** 23/05/2023

SAMPLE IDENTIFICATION: Environment ID # GDDNM2301768 - Date sampled: 12/05/2023

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 Relative water requirement Relative strength 7 days (accelerated) Relative strength 28 days (standard)	AS 3583.5	2.88	29/05/2023
	AS 3583.6	101%	01/06/2023
	AS 3583.6	102%	08/06/2023
	AS 3583.6	97%	29/06/2023

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

Note:

Date

Sample supplied by the client and tested as received.

Approved Signatory allus Clivat

Julius Alvaro

Serial No.

CEM105876.JA.2





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## **Boral Construction Materials Materials Technical Services**

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#### TEST REPORT

CLIENT:

BORAL CEMENT - TECHNICAL

39 Delhi Road, North Ryde, NSW 2113

PROJECT:

Testing of Environment Sample from Boral Cement – Geelong.

FILE No.:50/23

REQUEST No.: 105876

#### **TEST PROCEDURE:**

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.:

284177

Date Sampled:

12/05/2023

Date Received:

23/05/2023

Date Tested:

27/06/2023

Sample Description:

Enviroment ID#

GDDNM2301768

Field No.:

2

#### **TEST RESULTS:**

Sodium as Na <sub>2</sub> O (%)	0.07
Potassium as K <sub>2</sub> O (%)	0.10
Available Alkali (%)	0.1

Available Alkali (%) =  $Na_2O$  (%) + (0.658 x  $K_2O$  %)

#### Note:

Sample was provided by the Client and tested as received.

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



Approved Signatory\_\_

Date 30-06-23

\_\_ Serial No.

CHEM105876.NS.2

Nanthini Selvadurai

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TEST REPORT

CLIENT:

BORAL CEMENT - TECHNICAL

39 Delhi Road, North Ryde, NSW 2113.

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

FILE No.:50 / 23

REQUEST No.: 105876

TEST PROCEDURE: AS 3583.7 – Determination of Sulfide Sulfur content

Laboratory Sample No.:

284177

Date Sampled:

12/05/2023

Date Received:

23/05/2023

Date Tested:

26/05/2023

Sample Description:

Environment ID#

GDDNM2301768

Field No.:

2

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

28th June 2023.

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