

FINAL REPORT

CERTIFICATE No.: 24681



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: GDDNM2300956
DATE DESPATCHED: 15/03/2023

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.4 %
LOI (AS 3583.3)		0.7 %
SO ₃ (AS 2350.2; TM 10.01.07)		0.0 %
MgO (AS 2350.2)	≤ 15.0 %	5.2 %
Al ₂ O ₃ (AS 2350.2)	≤ 18.0 %	14.5 %
Fe ₂ O ₃ (AS 2350.2)		0.7 %
expressed as FeO *		0.6 %
Mn ₂ O ₃ (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)		2.2 %
Fineness Index (AS 2350.8)		465 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:** 104910**LAB SAMPLE NO:** 281189**SOURCE OF SAMPLE:** Boral Cement - Geelong**DATE RECEIVED:** 23/03/2023**SAMPLE IDENTIFICATION:** Enviroment ID # GDDNM2300956 - Date sampled: 15/03/2023**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	2.84	23/03/2023
Relative water requirement	AS 3583.6	102%	23/03/2023
Relative strength 7 days (accelerated)	AS 3583.6	98%	30/03/2023
Relative strength 28 days (standard)	AS 3583.6	90%	20/04/2023

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

Note:

- Sample supplied by the client and tested as received.

Approved Signatory Julius C. Alvaro Julius Alvaro
Date 26/04/2023 Serial No. CEM104910.JA.3

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



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**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.: 104910

TEST PROCEDURE:

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 281189
Date Sampled: 15/03/2023
Date Received: 23/03/2023
Date Tested: 28/04/2023
Sample Description: Enviroment ID #
GDDNM2300956
Field No.: 3

TEST RESULTS:

Sodium as Na₂O (%) 0.03
Potassium as K₂O (%) 0.06
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, Stephanie Koehler, Mat.File, File.



Approved Signatory

Nanthini Selvadurai

Date 28-04-23

Serial No. CHEM104910.NS.3

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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.: 104910

TEST PROCEDURE: AS 3583.7 – Determination of Sulfide Sulfur content

Laboratory Sample No.: 281189
Date Sampled: 15/03/2023
Date Received: 23/03/2023
Date Tested: 12/04/2023
Sample Description: Enviroment ID #
GDDNM2300956
Field No.: 3

TEST RESULTS:

Sulfide Sulfur as S (%) 0.38

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 April 2023.

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