

FINAL REPORT

CERTIFICATE No.: 24950



Boral Cement Limited
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TEST CERTIFICATE OF: Geelong Daily Despatch Environment
PRODUCED AT: Boral Cement Limited Geelong
TESTED AT: Berrima Works Laboratory
SAMPLE IDENTIFICATION: GDDNM2302129
DATE DESPATCHED: 6/06/2023

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.2 %
LOI (AS 3583.3)		-0.5 %
SO ₃ (AS 2350.2; TM 10.01.07)		0.0 %
MgO (AS 2350.2)	≤ 15.0 %	7.0 %
Al ₂ O ₃ (AS 2350.2)	≤ 18.0 %	13.9 %
Fe ₂ O ₃ (AS 2350.2)		1.2 %
expressed as FeO *		1.1 %
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 %	< 0.01 %
45µm Residue (AS 3583.1)		1.5 %
Fineness Index (AS 2350.8)		460 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

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Materials Technical Services**Unit 4, 3-5 Gibbon Road
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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:** 106355**LAB SAMPLE NO:** 285713**SOURCE OF SAMPLE:** Boral Cement - Geelong**DATE RECEIVED:** 20/06/2023**SAMPLE IDENTIFICATION:** Enviroment ID # GDDNM2302129 - Date sampled: 06/06/2023**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	20/06/2023
Relative water requirement	AS 3583.6	101%	22/06/2023
Relative strength 7 days (accelerated)	AS 3583.6	106%	29/06/2023
Relative strength 28 days (standard)	AS 3583.6	97%	20/07/2023

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

Note:

- Sample supplied by the client and tested as received.

Approved Signatory



Sam El-Hamawi

Date

22/7/23

Serial No.

CEM106355.SE.1

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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.: 106355

TEST PROCEDURE:

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 285713
Date Sampled: 06/06/2023
Date Received: 20/06/2023
Date Tested: 24/07/2023
Sample Description: Enviroment ID #
GDDNM2302129
Field No.: 1

TEST RESULTS:

Sodium as Na₂O (%) 0.08
Potassium as K₂O (%) 0.12
Available Alkali (%) 0.2

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 24-07-23 Serial No. CHEM106355.NS.1

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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.: 106355

TEST PROCEDURE: AS 3583.7 – Determination of Sulfide Sulfur content

Laboratory Sample No.: 285713
Date Sampled: 06/06/2023
Date Received: 20/06/2023
Date Tested: 27/06/2023
Sample Description: Enviroment ID #
GDDNM2302129
Field No.: 1

TEST RESULTS:

Sulfide Sulfur as S (%) 0.64

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
24th July 2023.

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