

FINAL REPORT

CERTIFICATE No.: 25084



Boral Cement Limited
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TEST CERTIFICATE OF: Geelong Daily Despatch Enviroment
PRODUCED AT: Boral Cement Limited Geelong
TESTED AT: Berrima Works Laboratory
SAMPLE IDENTIFICATION: GDDNM2302714
DATE DESPATCHED: 17/07/2023

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.3 %
LOI (AS 3583.3)		-0.2 %
SO ₃ (AS 2350.2; TM 10.01.07)		0.0 %
MgO (AS 2350.2)	≤ 15.0 %	6.7 %
Al ₂ O ₃ (AS 2350.2)	≤ 18.0 %	13.8 %
Fe ₂ O ₃ (AS 2350.2)		1.4 %
expressed as FeO *		1.3 %
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)		1.7 %
Fineness Index (AS 2350.8)		455 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:** 107061**LAB SAMPLE NO:** 287613**SOURCE OF SAMPLE:** Boral Cement - Geelong**DATE RECEIVED:** 25/07/2023**SAMPLE IDENTIFICATION:** Enviroment ID # GDDNM2302714 - Date sampled: 17/07/2023**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	2.89	01/08/2023
Relative water requirement	AS 3583.6	103%	03/08/2023
Relative strength 7 days (accelerated)	AS 3583.6	99%	10/08/2023
Relative strength 28 days (standard)	AS 3583.6	100%	31/08/2023

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

Note:

- Sample supplied by the client and tested as received.

Approved Signatory


Date 2/9/23

Sam El-Hamawi

Serial No. CEM107061.SE.1

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

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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.: 107061

TEST PROCEDURE:

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 287613
Date Sampled: 17/07/2023
Date Received: 25/07/2023
Date Tested: 28/08/2023
Sample Description: Enviroment ID #
GDDNM2302714
Field No.: 1

TEST RESULTS:

Sodium as Na₂O (%) 0.06
Potassium as K₂O (%) 0.09
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 29-08-22 Serial No. CHEM107061.NS.1

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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.: 107061

TEST PROCEDURE: AS 3583.7 – Determination of Sulfide Sulfur content

Laboratory Sample No.: 287613
Date Sampled: 17/07/2023
Date Received: 25/07/2023
Date Tested: 07/08/2023
Sample Description: Enviroment ID #
GDDNM2302714
Field No.: 1

TEST RESULTS:

Sulfide Sulfur as S (%) 0.19

Sample submitted by the Client.

- Sample was provided by the Client.
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Nanthini S

10th August 2023.

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