

FINAL REPORT

CERTIFICATE No.: 24733



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: GDDNM2301171
DATE DESPATCHED: 28/03/2023

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.3 %
LOI (AS 3583.3)		0.4 %
SO ₃ (AS 2350.2; TM 10.01.07)		0.0 %
MgO (AS 2350.2)	≤ 15.0 %	5.4 %
Al ₂ O ₃ (AS 2350.2)	≤ 18.0 %	14.6 %
Fe ₂ O ₃ (AS 2350.2)		0.8 %
expressed as FeO *		0.7 %
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)		2.8 %
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

TEST REPORT – MILLED SLAG**CLIENT:** BORAL CEMENT – (TECHNICAL)**FILE NO:** 50/23**ADDRESS:** 39 Delhi Road, North Ryde, NSW 2113**REQUEST NO:** 105215**LAB SAMPLE NO:** 282230**SOURCE OF SAMPLE:** Boral Cement - Geelong**DATE RECEIVED:** 12/04/2023**SAMPLE IDENTIFICATION:** Enviroment ID # GDDNM2301171 - Date sampled: 28/03/2023**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

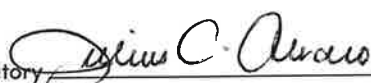
PROPERTY	TEST METHOD	RESULT	DATE TESTED
Relative density	AS 3583.5	2.88	13/04/2023
Relative water requirement	AS 3583.6	103%	27/04/2023
Relative strength 7 days (accelerated)	AS 3583.6	91%	04/05/2023
Relative strength 28 days (standard)	AS 3583.6	89%	25/05/2023

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

27/05/2023

Serial No.

CEM105215.JA.1

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.: 105215

TEST PROCEDURE:

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 282230
Date Sampled: 28/03/2023
Date Received: 12/04/2023
Date Tested: 18/05/2023
Sample Description: Enviroment ID #
GDDNM2301171
Field No.: 1

TEST RESULTS:

Sodium as Na₂O (%) 0.04
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 18-05-23 Serial No. CHEM105215.NS.1

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

NATA Accredited Laboratory

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.: 105215

TEST PROCEDURE: AS 3583.7 – Determination of Sulfide Sulfur content

Laboratory Sample No.: 282230
Date Sampled: 28/03/2023
Date Received: 12/04/2023
Date Tested: 12/04/2023
Sample Description: Enviroment ID #
GDDNM2301171
Field No.: 1

TEST RESULTS:

Sulfide Sulfur as S (%) 0.30

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
18th May 2023.

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