

# FINAL REPORT

CERTIFICATE No.: 23510



Boral Cement Limited

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TEST CERTIFICATE OF: Maldon Daily Despatch Environment

PRODUCED AT: Boral Cement Limited Maldon

TESTED AT: Berrima Works Laboratory

SAMPLE IDENTIFICATION: MDDNM2200921

DATE DESPATCHED: 4/04/2022

PROPERTY	REQUIREMENTS OF AS 3582.2	RESULT
Insoluble Residue (AS 3583.14)		0.4 %
LOI (AS 3583.3)		-0.7 %
SO <sub>3</sub> (AS 2350.2; TM 10.01.07)		0.3 %
MgO (AS 2350.2)	≤ 15.0 %	5.8 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)	≤ 18.0 %	13.2 %
Fe <sub>2</sub> O <sub>3</sub> (AS 2350.2)		1.0 %
expressed as FeO *		0.9 %
Mn <sub>2</sub> O <sub>3</sub> (AS 2350.2)		0.4 %
expressed as MnO *		0.4 %
Total Alkali (AS 2350.2)		0.4 %
Cl (AS 2350.2)	≤ 0.1 %	< 0.01 %
45µm Residue (AS 3583.1)		1.4 %
Fineness Index (AS 2350.8)		410 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.



Accredited for compliance with ISO/IEC 17025 - Testing

Marc Smith  
Technical Services Manager

**TEST REPORT – MILLED SLAG****CLIENT:** BORAL CEMENT – MALDON CEMENT**FILE NO:** 50/22**ADDRESS:** Maldon Bridge Road, Maldon, NSW 2571**REQUEST NO:** 98969**LAB SAMPLE NO:** 265791**SOURCE OF SAMPLE:** Maldon**DATE RECEIVED:** 07/04/2022**SAMPLE IDENTIFICATION:** Enviroment ID # MDDNM2200921 - w/e 09/04/2022 - Date sampled: 04/04/2022**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
Fineness by the 45µm sieve	AS 3583.1	99%	13/05/2022
Relative density	AS 3583.5	2.93	13/04/2022
Relative water requirement	AS 3583.6	100%	14/04/2022
Relative strength 7 days (accelerated)	AS 3583.6	109%	21/04/2022
Relative strength 28 days (standard)	AS 3583.6	104%	12/05/2022

Parisa Sowti, Violeta Paicu, Brad Vanderburg, Mat File, File

**Note:**

- Sample was provided by the client and tested as received.

Approved Signatory Julius Alvaro Julius Alvaro  
Date 24/05/2022 Serial No. CEM98969.JA.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 – Maldon Cement  
Maldon Bridge Road, Maldon, NSW 2571.

FILE No.:50/22

PROJECT: Testing of Maldon Enviroment Weekly Sample.

REQUEST No.: 98969

**TEST PROCEDURE:**

AS 3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 265791  
Date Sampled: 04/04/2022  
Date Received: 07/04/2022  
Date Tested: 27/05/2022  
Sample Description: Enviroment ID #  
MDDNM2200921  
Field No.: 1

**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<sub>2</sub>O (%) + (0.658 x K<sub>2</sub>O %)

**Note:**

- Sample was provided by the Client and tested as received.

V.Paicu, B.Vanderburg, P.Sowti, Mat.File, File.



Approved Signatory

Nanthini Selvadurai

CHEM98969.NS.1

Date 30-05-22 Serial No.

NATA Accredited Laboratory

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**TEST REPORT**

CLIENT: BORAL CEMENT – MALDON CEMENT  
Maldon Bridge Road, Maldon, NSW 2571.

FILE No.:50 / 22

PROJECT: Testing of Maldon Enviroment weekly sample.

REQUEST No.: 98969

**TEST PROCEDURE:** AS 3583.7 – Determination of Sulfide Sulfur content

Laboratory Sample No.: 265791  
Date Sampled: 04/04/2022  
Date Received: 07/04/2022  
Date Tested: 26/04/2022  
Sample Description: Enviroment  
ID # MDDNM2200921  
Field No.: 1

**TEST RESULTS:**

Sulfide Sulfur as S (%) 0.54

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

11<sup>th</sup> May 2022

Violeta Paicu, Brad Vanderburg, Parisa Sowti, Mat.File, File.