

## FINAL REPORT

CERTIFICATE No.: 24645



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: Tarong Daily Despatch Grade 1 Fly Ash  
PRODUCED AT: Boral Cement Limited Tarong  
TESTED AT: Berrima Works Laboratory  
SAMPLE IDENTIFICATION: TDDFA2300832  
DATE DESPATCHED: 15/02/2023

PROPERTY	REQUIREMENTS OF AS 3582.1 - Grade 1	RESULT
Fineness (AS 3583.3)	≥ 75 %	81 %
LOI (AS 3583.3)	≤ 4.0 %	2.3 %
Moisture (AS 3583.2)	≤ 0.5 %	< 0.1 %
SO <sub>3</sub> (AS 2350.2)	≤ 3.0 %	< 0.1 %
SiO <sub>2</sub> (AS 2350.2)		71.6 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)		23.0 %
Fe <sub>2</sub> O <sub>3</sub> (AS 2350.2)		0.7 %
Chemical Composition (AS 2350.2)	≥ 70 %	95 %
Total Alkali (AS 2350.2)		0.5 %
Cl (AS 2350.2)	≤ 0.1 %	< 0.01 %

### REMARKS

Sampling not carried out by laboratory. Samples tested as received.



Accredited for compliance with ISO/IEC 17025 - Testing

Marc Smith  
Technical Services Manager

**TEST REPORT – FLYASH****CLIENT:** BORAL CEMENT – (TECHNICAL)**FILE NO:** 50/23**ADDRESS:** 39 Delhi Road, North Ryde, NSW 2113**REQUEST NO:** 104776**SAMPLE IDENTIFICATION:** TDDFA2300832**LAB SAMPLE NO:** 280888**SOURCE OF SAMPLE:** Boral Cement - Berrima**DATE SAMPLED:** 15/02/2023**DATE RECEIVED:** 16/03/2023**IDENTIFICATION OF CEMENT USED:** Boral Cement SL Berrima Ref. 2022**TEST METHOD:** AS 3583: Methods of test for supplementary cementitious materials for use with Portland cement

PROPERTY	DATE TESTED	RESULT	TEST METHOD
Relative density	27/03/2023	2.09	AS 3583.5
Relative water requirement	30/03/2023	102%	AS 3583.6
Relative strength 7 days (accelerated)	06/04/2023	97%	AS 3583.6

**Note:**

- Sample supplied by the client and tested as received.

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

Approved Signatory Julius C. Alvaro Julius Alvaro  
Date 11/04/2023 Serial No. CEM104776.JA.1

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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.



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