

# FINAL REPORT

CERTIFICATE No.: 24614



Boral Cement Limited  
N 62 008 528 523  
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**TEST CERTIFICATE OF:** Tarong Daily Despatch Grade 1 Fly Ash  
**PRODUCED AT:** Boral Cement Limited Tarong  
**TESTED AT:** Berrima Works Laboratory  
**SAMPLE IDENTIFICATION:** TDDFA2300719  
**DATE DESPATCHED:** 20/01/2023

PROPERTY	REQUIREMENTS OF AS 3582.1 - Grade 1	RESULT
Fineness (AS 3583.3)	≥ 75 %	88 %
LOI (AS 3583.3)	≤ 4.0 %	2.1 %
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)		70.7 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)		24.2 %
Fe <sub>2</sub> O <sub>3</sub> (AS 2350.2)		0.8 %
Chemical Composition (AS 2350.2)	≥ 70 %	96 %
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

A handwritten signature in blue ink, appearing to read "Marc Smith".

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: 104569

SAMPLE IDENTIFICATION: TDDFA2300719

LAB SAMPLE NO: 280368

SOURCE OF SAMPLE: Boral Cement - Berrima

DATE SAMPLED: 20/01/2023

DATE RECEIVED: 07/03/2023

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	DATE TESTED	RESULT	TEST METHOD
Relative density	14/03/2023	2.12	AS 3583.5
Relative water requirement	16/03/2023	101%	AS 3583.6
Relative strength 7 days (accelerated)	23/03/2023	100%	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 04/04/2023 Serial No. CEM104569.JA.1
