

# FINAL REPORT

CERTIFICATE No.: 24796



Boral Cement Limited  
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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:** TDDFA2301429  
**DATE DESPATCHED:** 19/04/2023

PROPERTY	REQUIREMENTS OF AS 3582.1 - Grade 1	RESULT
Fineness (AS 3583.3)	≥ 75 %	87 %
LOI (AS 3583.3)	≤ 4.0 %	2.2 %
Moisture (AS 3583.2)	≤ 0.5 %	0.2 %
SO <sub>3</sub> (AS 2350.2)	≤ 3.0 %	0.1 %
SiO <sub>2</sub> (AS 2350.2)		69.4 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)		25.2 %
Fe <sub>2</sub> O <sub>3</sub> (AS 2350.2)		0.6 %
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

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:** 105525**SAMPLE IDENTIFICATION:** TDDFA2301429**LAB SAMPLE NO:** 283104**SOURCE OF SAMPLE:** Boral Cement - Berrima**DATE SAMPLED:** 19/04/2023**DATE RECEIVED:** 03/05/2023**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	03/05/2023	2.08	AS 3583.5
Relative water requirement	11/05/2023	101%	AS 3583.6
Relative strength 7 days (accelerated)	18/05/2023	93%	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 20/05/2023 Serial No. CEM105525.JA.1