

# FINAL REPORT

CERTIFICATE No.: 23333



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:** TDDFA2200506  
**DATE DESPATCHED:** 18/02/2022

PROPERTY	REQUIREMENTS OF AS 3582.1 - Grade 1	RESULT
Fineness (AS 3583.3)	≥ 75 %	90 %
LOI (AS 3583.3)	≤ 4.0 %	0.9 %
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)		68.3 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)		25.7 %
Fe <sub>2</sub> O <sub>3</sub> (AS 2350.2)		2.4 %
Chemical Composition (AS 2350.2)	≥ 70 %	96 %
Total Alkali (AS 2350.2)		0.3 %
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:** 50/22

**ADDRESS:** 39 Delhi Road, North Ryde, NSW 2113

**REQUEST NO:** 98265

**SAMPLE IDENTIFICATION:** Tarong Fly ash – TDDFA2200506

**LAB SAMPLE NO:** 263902

**SOURCE OF SAMPLE:** Boral Cement

**DATE SAMPLED:** 18/02/2022

**DATE RECEIVED:** 24/02/2022

**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	DATE TESTED	RESULT	TEST METHOD
Relative density	24/02/2022	2.15	AS 3583.5
Relative water requirement	24/02/2022	104%	AS 3583.6
Relative strength 7 days (accelerated)	03/03/2022	88%	AS 3583.6
Relative strength 28 days (standard)	24/03/2022	88%	AS 3583.6

**Note:**

- Sample supplied by the client and tested as received.

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

Approved Signatory Julius C. Alvaro Julius Alvaro  
Date 29/03/2022 Serial No. CEM98265.JA.5

