

# FINAL REPORT

CERTIFICATE No.: 23331



Boral Cement Limited  
ABN 62 008 528 523  
Taylor Avenue New Berrima NSW 2577  
Locked Bag 4 New Berrima NSW 2577  
T +61 2 4860 2222  
F +61 2 4860 2257

**TEST CERTIFICATE OF:** Tarong Daily Despatch Grade 1 Fly Ash  
**PRODUCED AT:** Boral Cement Limited Tarong  
**TESTED AT:** Berrima Works Laboratory  
**SAMPLE IDENTIFICATION:** TDDFA2200504  
**DATE DESPATCHED:** 16/02/2022

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)		68.4 %
Al <sub>2</sub> O <sub>3</sub> (AS 2350.2)		25.9 %
Fe <sub>2</sub> O <sub>3</sub> (AS 2350.2)		2.5 %
Chemical Composition (AS 2350.2)	≥ 70 %	97 %
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

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:** 50/22**ADDRESS:** 39 Delhi Road, North Ryde, NSW 2113**REQUEST NO:** 98265**SAMPLE IDENTIFICATION:** Tarong Fly ash – TDDFA2200504**LAB SAMPLE NO:** 263900**SOURCE OF SAMPLE:** Boral Cement**DATE SAMPLED:** 16/02/2022**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	2.17	AS 3583.5
Relative water requirement	24/02/2022	105%	AS 3583.6
Relative strength 7 days (accelerated)	03/03/2022	86%	AS 3583.6
Relative strength 28 days (standard)	24/03/2022	89%	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 Alvaro  
Date 29/03/2022 Serial No. CEM98265.JA.3

