

## **Cement Test Certificate**

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Final

ABN 50 006 673 470

Dementela	- Due un entre		Requirements of	Desult
Minor Additional Constituents			Max 5 %	Nil
Calcium Sulphate				<5 %
Mineral Addition			Max 7.5 %	<7.5 %
Ground Granulated Iron Blast-Fu	irnace Slag			Nil
Clinker				>86.5 %
Nomina	ll Blend		Requirements	Result
	Sample Date:	1/03/2019		
	Sample Code:	B06b3e7		
	Produced At:	Cockburn Cement, Munster Plant, WA		
	Test Certificate Number:	190173		
	Product Certified:	Type GP General Purpose Cement		
ABN 50 006 673 470		1. 101 0 3411 1.		

Reportable Property	Test Method	AS3972	Result
3 Day Strength	AS2350.11	N/R	38.8 MPa
7 Day Strength	AS2350.11	Min 35.0 MPa	47.6 MPa
28 Day Strength	AS2350.11	Min 45.0 MPa	63.9 MPa
Initial Set Time	AS2350.4	Min 45 min	135 min
Final Set Time	AS2350.4	Max 360 min	210 min
Soundness	AS2350.5	Max 5 mm	0 mm
Sulfuric Anhydride content (SO <sub>3</sub> )	AS2350.2	Max 3.5 %	3.1 %
Chloride Ion	BH-TM-0507	Max 0.10 %	0.017 %
Other Properties			
SiO <sub>2</sub>	AS2350.2	N/R	18.9 %
Al <sub>2</sub> O <sub>3</sub>	AS2350.2	N/R	5.2 %
Fe <sub>2</sub> O <sub>3</sub>	AS2350.2	N/R	2.7 %
CaO	AS2350.2	N/R	62.4 %
MgO	AS2350.2	N/R	1.4 %
Na <sub>2</sub> O Equivalent	AS2350.2	N/R	0.6 %
Loss on Ignition	AS2350.2	N/R	4.2 %
Fineness Index	AS2350.8	N/R	390 m²/kg
Normal Consistency	AS2350.3	N/R	28.5 %

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## REMARKS

These test result apply specifically to the sample as received at the Adelaide Brighton Cement Birkenhead Laboratory (Accreditation number: 252), 62 Elder Rd Birkenhead SA 5015.

This despatch grab sample complies to the requirements of AS3972:2010, Type GP Cement. N/R = No Requirement



Accredited for compliance with ISO/IEC 17025 - Testing. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Approved Signatory F. Pope

Issue Date:

18/04/2019