Cement Test Certificate

Final

Product Certified:	Type GP General Purpose Cement
Test Certificate Number:	180870
Produced At:	Northern Cement, Darwin Plant, NT
Sample Code:	B067834
Sample Date:	3/10/2018

Nominal Blend	Requirements	Result
Clinker		>86.5 %
Ground Granulated Iron Blast-Furnace Slag		Nil
Mineral Addition	Max 7.5 %	<7.5 %
Calcium Sulphate		<5 %
Minor Additional Constituents	Max 5 %	Nil

Reportable Property	Test Method	Requirements of AS3972	Result
3 Day Strength	AS2350.11	N/R	38.2 MPa
7 Day Strength	AS2350.11	Min 35.0 MPa	50.4 MPa
28 Day Strength	AS2350.11	Min 45.0 MPa	59.2 MPa
Initial Set Time	AS2350.4	Min 45 min	135 min
Final Set Time	AS2350.4	Max 360 min	180 min
Soundness	AS2350.5	Max 5 mm	0 mm
Sulfuric Anhydride content (SO_3)	AS2350.2	Max 3.5 %	3.5 %
Chloride Ion	BH-TM-0507	Max 0.10 %	0.012 %

Other Properties

SiO_2	AS2350.2	N/R	19.8 %
Al_2O_3	AS2350.2	N/R	5.5 %
Fe_2O_3	AS2350.2	N/R	2.8 %
CaO	AS2350.2	N/R	63.2 %
MgO	AS2350.2	N/R	1.4 %
Na_2O Equivalent	AS2350.2	N/R	0.6 %
Loss on Ignition	AS2350.2	N/R	2.5 %
Fineness Index	AS2350.8	N/R	340 m²/kg
Normal Consistency	AS2350.3	N/R	28.7 %

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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

Approved Signatory

F. Pope

Issue Date: 19/11/2018