

CERTIFICATE OF ANALYSIS

**CERTIFICATE No.** 1357-19  
**TEST CERTIFICATE FOR:** Slag Blend 30  
**PRODUCED AT:** Sunstate Cement Ltd, Port of Brisbane  
**SAMPLE IDENTIFICATION:** Spot Despatch Sample sample O6P-000684 sampled on 21/10/2019  
**SAMPLE TESTED AT:** Sunstate Cement Ltd, Port of Brisbane

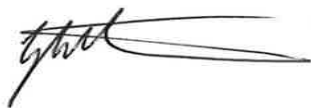
SPECIFIED PROPERTY	TEST METHOD	AS3972 REQUIREMENTS		RESULT
Compressive strength	AS2350.11, AS2350.12			
3 day				23.3 MPa
7 day		Minimum	20 MPa	35.8 MPa
28 day		Minimum	35 MPa	56.7 MPa
Setting time	AS2350.4			
Initial		Minimum	45 mins	120 mins
Final		Maximum	600 mins	210 mins
Soundness	AS2350.5	Maximum	5 mm	0 mm
Sulphuric anhydride (SO <sub>3</sub> )	In house	Maximum	3.5 %	2.4 %

REPORTABLE PROPERTY	TEST METHOD			RESULT
Loss on ignition	AS2350.2			2.4 %
Fineness	AS2350.8			400 m <sup>2</sup> /kg
Chloride	AS3583.13			0.0026 %

OTHER PROPERTIES	TEST METHOD			RESULT
Normal Consistency	In House			30.2 %

**SAMPLING PROCEDURE:** Cement samples obtained according to the requirements of AS2350.1

**REMARKS:** The results of the above tests relate only to the sample as described above.  
The blended cement is produced with a nominal 30% GBFS content.



**G Santaguiliana**  
**Approved Signatory**  
**2-Dec-2019**



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