

CERTIFICATE OF ANALYSIS

**CERTIFICATE No.** 0300-19  
**TEST CERTIFICATE FOR:** HE Portland Cement  
**PRODUCED AT:** Sunstate Cement Ltd, Port of Brisbane  
**SAMPLE IDENTIFICATION:** Spot Despatch Sample sample E6P-000971 sampled on 4/3/2019  
**SAMPLE TESTED AT:** Sunstate Cement Ltd, Port of Brisbane

SPECIFIED PROPERTY	TEST METHOD	AS3972 REQUIREMENTS		RESULT
Compressive strength	AS2350.11, AS2350.12			
1 day				21.8 MPa
3 day		Minimum	25 MPa	40.4 MPa
7 day		Minimum	40 MPa	52.1 MPa
28 day				62.1 MPa
Setting time	AS2350.4			
Initial		Minimum	45 mins	90 mins
Final		Maximum	360 mins	180 mins
Soundness	AS2350.5	Maximum	5 mm	1 mm
Sulphuric anhydride (SO <sub>3</sub> )	In House	Maximum	3.5 %	2.7 %

REPORTABLE PROPERTY	TEST METHOD	RESULT
Loss on ignition	AS2350.2	3.3 %
Fineness	AS2350.8	395 m <sup>2</sup> /kg
Chloride	AS3583.13	0.0109 %

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.



**G Santaguiliana**  
**Approved Signatory**  
**15-Apr-2019**

