

CERTIFICATE OF ANALYSIS

**CERTIFICATE No.** 0153-18

**TEST CERTIFICATE FOR:** HE Portland Cement

**PRODUCED AT:** Sunstate Cement Ltd, Port of Brisbane

**SAMPLE IDENTIFICATION:** Spot Despatch Sample sample E6P-000918 sampled on 5/2/2018

**SAMPLE TESTED AT:** Sunstate Cement Ltd, Port of Brisbane

SPECIFIED PROPERTY	TEST METHOD	AS3972 REQUIREMENTS		RESULT
Compressive strength	AS2350.11, AS2350.12			
1 day				22.9 MPa
3 day		Minimum	25 MPa	41.3 MPa
7 day		Minimum	40 MPa	52.6 MPa
28 day				63.5 MPa
Setting time	AS2350.4			
Initial		Minimum	45 mins	105 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 %	2.8 %

REPORTABLE PROPERTY	TEST METHOD	RESULT
Loss on ignition	AS2350.2	2.5 %
Fineness	AS2350.8	380 m <sup>2</sup> /kg
Chloride	AS3583.13	0.0149 %

OTHER PROPERTIES	TEST METHOD	RESULT
Normal Consistency	In House	29.9 %

**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**  
**9-Mar-2018**



NATA accredited laboratory  
 Laboratory Number: 2190 / 2191  
 Accredited for compliance with  
 ISO/IEC 17025

The results of the tests,  
 calibrations and/or measurements  
 included in this document are  
 traceable to Australian/national  
 standards. This document shall not  
 be reproduced except in full.