

CERTIFICATE OF ANALYSIS

**CERTIFICATE No.** 0866-19  
**TEST CERTIFICATE FOR:** GP Portland Cement  
**PRODUCED AT:** Sunstate Cement Ltd, Port of Brisbane  
**SAMPLE IDENTIFICATION:** Spot Despatch Sample sample A6P-002331 sampled on 24/6/2019  
**SAMPLE TESTED AT:** Sunstate Cement Ltd, Port of Brisbane

| SPECIFIED PROPERTY                     | TEST METHOD          | AS3972 REQUIREMENTS |          | RESULT   |
|--|----------------------|---------------------|----------|----------|
| Compressive strength                   | AS2350.11, AS2350.12 |                     |          |          |
| 3 day                                  |                      |                     |          | 35.2 MPa |
| 7 day                                  |                      | Minimum             | 35 MPa   | 50.7 MPa |
| 28 day                                 |                      | Minimum             | 45 MPa   | 66.0 MPa |
| Setting time                           | AS2350.4             |                     |          |          |
| Initial                                |                      | Minimum             | 45 mins  | 90 mins  |
| Final                                  |                      | Maximum             | 360 mins | 195 mins |
| Soundness                              | AS2350.5             | Maximum             | 5 mm     | 1 mm     |
| Sulphuric anhydride (SO <sub>3</sub> ) | In House             | Maximum             | 3.5 %    | 2.9 %    |
| Chloride                               | AS3583.13            | Maximum             | 0.1 %    | 0.002 %  |

| REPORTABLE PROPERTY                             | TEST METHOD |  |  | RESULT                 |
|---|-------------|--|--|------------------------|
| Loss on ignition                                | AS2350.2    |  |  | 3.5 %                  |
| Fineness  | AS2350.8    |  |  | 370 m <sup>2</sup> /kg |
| Total Alkali (Na <sub>2</sub> O <sub>eq</sub> ) | AS2350.2    |  |  | 0.3 %                  |

| OTHER PROPERTIES   | TEST METHOD |  |  | RESULT |
|--------------------|-------------|--|--|--------|
| Normal Consistency | In House    |  |  | 28.0 % |

**SAMPLING PROCEDURE:**  
 1. The results of the above tests relate only to the sample as described above.  
 2. Total Alkali determined at Australian Laboratory Services by ICP -AES using ME -ICP 91, Corporate Accreditation No 825, Corporate Site 818.

**REMARKS:**



**G Santaguiliana**  
**Approved Signatory**  
 3-Sep-2019

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