

CERTIFICATE OF ANALYSIS

CERTIFICATE No. 1603-19

TEST CERTIFICATE FOR: Slag Blend 60 (SR Cement)

PRODUCED AT: Sunstate Cement Ltd, Port of Brisbane

SAMPLE IDENTIFICATION: Spot Despatch Sample sample H6P-000609 sampled on 16/12/2019

SAMPLE TESTED AT: Sunstate Cement Ltd, Port of Brisbane

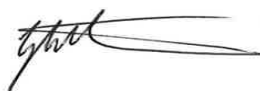
| SPECIFIED PROPERTY | TEST METHOD | AS3972 REQUIREMENTS | | RESULT |
|--|----------------------|---------------------|----------|----------|
| Compressive strength | AS2350.11, AS2350.12 | | | |
| 3 day | | | | 13.7 MPa |
| 7 day | | Minimum | 20 MPa | 23.6 MPa |
| 28 day | | Minimum | 35 MPa | 49.3 MPa |
| 56 day | | | | 62.5 Mpa |
| Setting time | AS2350.4 | | | |
| Initial | | Minimum | 45 mins | 135 mins |
| Final | | Maximum | 600 mins | 240 mins |
| Soundness | AS2350.5 | Maximum | 5 mm | 1 mm |
| Sulphuric anhydride (SO ₃) | In House | Maximum | 3.5 % | 2.8 % |

| REPORTABLE PROPERTY | TEST METHOD | | | RESULT |
|---------------------|-------------|--|--|------------------------|
| Loss on ignition | AS2350.2 | | | 1.5 % |
| Fineness | AS2350.8 | | | 385 m ² /kg |
| Chloride | AS3583.13 | | | 0.0039 % |

| OTHER PROPERTIES | TEST METHOD | | | RESULT |
|--------------------|-------------|--|--|--------|
| Normal Consistency | In House | | | 32.5 % |

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
27-Feb-2020

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