



# Certificate of Conformity

| Certificate num.  | Registration date | Version      | Valid until               |             |
|-------------------|-------------------|--------------|---------------------------|-------------|
| <b>afp - 1511</b> | 20-Mar-2002       | Number<br>21 | Issue date<br>27-Mar-2026 | 30-Apr-2027 |

## Product designation

**Orrfire®, SMARTCOTE®, medium pre-painted sprinkler pipe**

(Refer to the Schedule/enclosures for further specified details)

## Agent/distributor

Orrcon Steel  
121 Evans Road, SALISBURY, QLD, AUSTRALIA, 4107

## Registrant

Orrcon Steel  
121 Evans Road, SALISBURY, QLD, AUSTRALIA, 4107

### Producer

Orrcon Steel  
121 Evans Road, SALISBURY, QLD, AUSTRALIA, 4107

## Conformance criteria and evaluation

The Orrfire®, SMARTCOTE®, medium pre-painted sprinkler pipe has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 4118.2.1-1995, 'Fire sprinkler systems - Piping - General'.
2. SSL Appraisal Specification FAS-105, Version 1.4, 'AS 1074 Light & Medium Wall Steel Pipe for Fire Protection Systems (ERW Carbon Steel Pipe to AS4118.2.1-1995)'.

## Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. Fire sprinkler system designers, and authorities having jurisdiction, must confirm that the codes or standards used for the system design adequately address the hydraulic characteristics of this product. Full hydraulic analysis is an approved and recommended method of determining that system performance will meet design requirements.
- ii. Pipe shall not be used below ground.

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

Kaj Loh  
Executive Officer – ActivFire Scheme



# Schedule to Certificate of Conformity

|                   |                   |              |                           |             |
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## Producer's description

The production and physical characteristics of Orrfire®, SMARTCOTE®, medium pre-painted sprinkler pipe are summarised as follows:

- The pipe is produced as ERW tube from Hot Rolled steel strip.
- Steel is processed in accordance with AS1074.
- Steel properties conform to AS/NZS 1163 Steel Grade 250L0.

Pipes are produced in wall thickness that meet or exceed those specified in AS 4118.2.1 – 1995 providing suitability for use in AS 2118 – conforming sprinkler systems.

All listed sizes are suitable for use with roll-grooved type couplings and fittings of suitable diameter and groove profile. Additionally they are suitable for joining by shouldered-end coupling.

## Technical specification

The following details are a representative extract of the technical specification for the Orrfire®, SMARTCOTE®, medium pre-painted sprinkler pipe and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

### Pipe dimensional data:

| Nominal size<br>mm | Nominal outside<br>diameter<br>mm | Nominal inside<br>diameter<br>mm | Nominal wall thickness<br>mm | Mass per metre<br>kg / m |
|--------------------|-----------------------------------|----------------------------------|------------------------------|--------------------------|
| 25                 | 33.7                              | 29.7                             | 3.2                          | 2.41                     |
| 32                 | 42.4                              | 36.0                             | 3.2                          | 3.09                     |
| 40                 | 48.3                              | 41.9                             | 3.2                          | 3.56                     |
| 50                 | 60.3                              | 53.1                             | 3.6                          | 5.03                     |
| 65                 | 76.1                              | 68.9                             | 3.6                          | 6.44                     |
| 80                 | 88.9                              | 80.9                             | 4.0                          | 8.38                     |
| 90                 | 101.6                             | 93.6                             | 4.0                          | 9.63                     |
| 100                | 114.3                             | 105.3                            | 4.5                          | 12.2                     |
| 125                | 139.7                             | 129.7                            | 5.0                          | 16.6                     |
| 150                | 165.1                             | 155.1                            | 5.0                          | 19.7                     |

### Notes:

1. The above mass values have been calculated based on a steel density of 7850 kg / m<sup>3</sup> and assume a pipe of the exact dimensions listed above.
2. Wall thickness; the figures are "nominal" unless otherwise noted as minimum (min).

### General

Orrfire®, SMARTCOTE®, medium pre-painted sprinkler pipe is manufactured by using an electric resistance welding method in accordance with the requirements of SSL Appraisal Specification FAS-105: Version 1.4, 'AS 1074 Medium & Medium Wall Steel Pipe for Fire Protection Systems'.

### Leak-tightness

The weld zone is tested in-line using an Eddy Current Flaw Detection System. Testing is carried out in accordance with AS 1074 section 2.8 (b) and Appendix B.

### Pre-painted external coating

Pre-painted coating is a water-based semi-gloss polymer coating applied to the external surface of the pipe. The average "dry film thickness" is 10 to 15 microns. The coating is available in red (red gum) or black.

### Steel properties, as per AS/NZS 1163 Steel Grade C250L0

|   |     |
|---|-----|
| Yield strength (MPa) min  | 250 |
| Ultimate Tensile Strength (MPa) min   | 320 |
| Minimum elongation (%) where gauge length = 5.65*(S <sub>0</sub> ) <sup>0.5</sup> | 22  |
| Dimensional tolerance conform to AS 1074  |     |