



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3224	6-Feb-2018	Number 2	Issue date 1-May-2018	30-Apr-2019
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Product designation

AustubeMills, DuraPrimed, Medium, steel fire sprinkler/hydrant pipe
(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Austube Mills
Building 7, Industrial Drive, MAYFIELD, NSW, AUSTRALIA, 2304

Registrant

Austube Mills
146 Ingram Road, ACACIA RIDGE, QLD, AUSTRALIA, 4110

Producer

Austube Mills
Building 7, Industrial Drive, MAYFIELD, NSW, AUSTRALIA, 2304

Conformance criteria and evaluation

The AustubeMills, DuraPrimed, Medium, steel fire sprinkler/hydrant 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' incl. Amdt 1 (22 June 2005).
2. Australian Standard AS 1074-1989, 'Steel tubes and tubulars for ordinary service'.
3. Australian Standard AS 4728-2005, 'Electric resistance welded steel pipe for pressure purposes' incl. Amdt 1 (23 February 2007).

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 system designers and authorities having jurisdiction must confirm that the codes or standards used for system design adequately address the hydraulic characteristics of this product.
- ii. Full hydraulic analysis is an approved and recommended method of determining that system performance will meet design requirements.

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



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.

Schedule to Certificate of Conformity

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Producer's description

The AustubeMills, DuraPrimed, Medium, steel fire sprinkler/hydrant pipe is a medium-weight moderate to high strength steel pipe which is surface-protected by red paint coating.

All listed sizes are suitable for use with rolled-groove couplings, shoulder-end coupling, threaded pipe ends and threaded sockets, or by butt welding.

Technical specification

The following details are a representative extract of the technical specification for the AustubeMills, DuraPrimed, Medium, steel fire sprinkler/hydrant pipe and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Pipe dimensions

Nominal size DN	Nominal outside diameter	Nominal inside diameter	Nominal wall thickness
25 mm	33.7 mm	27.3 mm	3.2 mm
32 mm	42.4 mm	36.0 mm	3.2 mm
40 mm	48.3 mm	41.9 mm	3.2 mm
50 mm	60.3 mm	53.1 mm	3.6 mm
65 mm	76.1 mm	68.9 mm	3.6 mm
80 mm	88.9 mm	80.9 mm	4.0 mm
100 mm	114.3 mm	105.3 mm	4.5 mm

General

AustubeMills, DuraPrimed, Medium, steel fire sprinkler/hydrant pipe is manufactured by using electric resistance welding uncoated strip.

Leak-tightness

The leak-tightness and integrity of the weld is ensured by 100% testing with eddy-current or ultrasonic type flaw-detection equipment in accordance with AS 1074 or AS 4728.

Tensile properties of the As Formed tube as detailed in AS 4728

Property	Steel grade		
	200L0	240L0	290L0
Yield strength (MPa) minimum	200	240	290
Ultimate tensile strength (MPa) minimum	320	380	415
Minimum elongation (%) where gauge length = $5.65 \cdot (S_0)^{0.5}$	18	15 (Notes 1 & 2)	15 (Notes 1 & 2)

Note 1: The elongation limit shall not apply to pipe whose outside diameter is 33.7 mm or smaller. However, the values shall be recorded.

Note 2: The minimum elongation figures specified apply only to testing performed prior to shipment because of the possibility of strain aging. Tests performed after shipment may show values below those stated.