



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 2380	16-Nov-2009	Number 11	Issue date 1-May-2019	30-Apr-2020

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Product designation

Protector, Model A: SIN PS012, 10NS x 6.0K(metric), 68°/93°C, spr. upr., quick response sprinklers

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

Agent/distributor

Australian Fire Supplies & Fabrication Pty Ltd
Unit 1/32 Stennett Road, INGLEBURN, NSW, AUSTRALIA, 2565

Registrant

Australian Fire Supplies & Fabrication Pty Ltd
Unit 1/32 Stennett Road, INGLEBURN, NSW, AUSTRALIA, 2565

Producer

Protector Sprinkler Ind Co., Ltd
No.3, Alley 16, Lane 228, Nan-Kang Road Section 2, LU CHU HSIANG, TAO-YUAN HSIEN, TAIWAN, 338

Conformance criteria and evaluation

The Protector, Model A: SIN PS012, 10NS x 6.0K(metric), 68°/93°C, spr. upr., quick response sprinklers has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Underwriters Laboratories Standard UL 199, Edition 11, 'Automatic Fire Sprinklers for Fire Protection Service'.
2. Underwriters Laboratories Canada Other Recognized Document ULC/ORD-C199-2003, 'Automatic Sprinklers for Fire Protection Service'.
3. Underwriters Laboratories - Evaluation and listing, 'UL listing'.
4. Underwriters Laboratories Canada - Evaluation, follow-up services and listing, 'cUL listing'.

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.

(Limitations/conditions of conformance continue)

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

David Whittaker
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

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- i. Fire sprinkler equipment, system design and installation should be determined and verified in accordance with the performance and prescribed requirements of the regulations, standards and criteria as specified by the building code and authorities having jurisdiction. Due considerations include the occupancy fire loading, sprinkler location, coverage, response, hydraulic characteristics and other specified requirements relevant to the conformance and effectiveness of the equipment and installed system.
- ii. Specific or special requirements in relation to this product must be considered and included in the system design and installation.
- iii. The maximum working pressure is 1210 kPa.

Producer's description

The Protector, Model A: SIN PS012, 10NS x 6.0K(metric), 68°/93°C, spr. upr., quick response sprinklers are manufactured using the Belleville seal.

Design and coverage shall be in accordance with performance and prescribed requirements of the regulations, standards and criteria as specified by the building code and authorities having jurisdiction and the manufacturers data sheet as applicable to this product.

Technical specification

The following details are a representative extract of the technical specification for the Protector, Model A: SIN PS012, 10NS x 6.0K(metric), 68°/93°C, spr. upr., quick response sprinklers and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

SIN	PS012
Maximum working pressure	1210 kPa (175 psi)
Minimum operational pressure	48 kPa (7 psi)
Thread size	10NS (3/8" NPT)
Nominal K-factor	6.0 K(metric), l/min / kPa ^{0.5} (4.2 GPM/psi ^{0.5})
Nominal temperature rating	68°/93°C
Finishes	Natural brass
Physical characteristics	
Bulb	NOR Bulb N3
Frame	ASTM C37700
Cap	ASTM C11000
Cap seat	ASTM S30400
Sealing assembly	Beryllium nickel w/ teflon
Deflector	ASTM C22000
Load screw	ASTM C36000