



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1018	12-Aug-1996	Number 13	Issue date 26-Apr-2019	30-Apr-2020

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Product designation

'Automatic', Model K-1, 20NS x 20.2K(metric), 68°/93°C, Spr. Pend., ESFR Sprinklers

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

Agent/distributor

Kidde Australia
Unit 3, Ground Floor, 10 Ferntree Place, NOTTING HILL, VIC, AUSTRALIA, 3168

Registrant

Kidde Australia
Unit 3, Ground Floor, 10 Ferntree Place, NOTTING HILL, VIC, AUSTRALIA, 3168

Producer

Badger Fire Protection Inc.
Route 29 North, CHARLOTTESVILLE, VA, UNITED STATES, 22906

Conformance criteria and evaluation

The 'Automatic', Model K-1, 20NS x 20.2K(metric), 68°/93°C, Spr. Pend., ESFR Sprinklers have been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Underwriters Laboratories - Evaluation and listing, 'UL 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.

- i. FM approved for use in a maximum compartment height of 12.2 m with maximum storage height of 10.7 m.

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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Producer's description

The 'Automatic', Model K-1, 20NS x 20.2K(metric), 68°/93°C, Spr. Pend., ESFR Sprinklers are intended for use against severe fire challenges. These sprinklers are designed to respond quickly to growing fires and will deliver a heavy water discharge to "suppress" rather than "control" fires.

The 'Automatic', Model K-1, 20NS x 20.2K(metric), 68°/93°C, Spr. Pend., ESFR Sprinklers utilise a 2.5 mm glass bulb in either the 68°C or 93°C rating. The sprinklers have a K Factor of 20.2(l/min, kPa).

The deflector and frame provide a broad, very symmetrical, hemispherical pattern capable of suppressing fires between sprinklers in high storage height areas and at the same time retaining a high momentum central core to penetrate and suppress fires occurring directly beneath the sprinkler in low storage height areas.

Technical specification

The following details are a representative extract of the technical specification for the 'Automatic', Model K-1, 20NS x 20.2K(metric), 68°/93°C, Spr. Pend., ESFR Sprinklers and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Actuating element:	2.5 mm Glass Bulb
Temperature ratings:	68°C, 93°C
Orifice size (Nom):	19 mm
K Factor (Metric):	20.2 (l/min, kPa)
Deflector type:	Pendent
Dimensions:	Length to end: 110 mm approximately
Frame width:	75 mm maximum