



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 2395</b>	21-Jan-2010	Number 11	Issue date 26-Apr-2019	30-Apr-2020

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## Product designation

**Viking Freedom®, Model: SIN VK468, 15NS thread x 7.06K(metric), 68°/79°C, concealed pendent, residential sprinklers**

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

## Agent/distributor

Viking Fire Protection Supplies Pty Ltd  
95 – 99 Hardys Road, UNDERDALE, SA, AUSTRALIA, 5032

## Registrant

Viking Fire Protection Supplies Pty Ltd  
95 – 99 Hardys Road, UNDERDALE, SA, AUSTRALIA, 5032

### Producer

The Viking Corporation  
210 North Industrial Park Drive, HASTINGS, MICHIGAN, UNITED STATES, 49058

## Conformance criteria and evaluation

The Viking Freedom®, Model: SIN VK468, 15NS thread x 7.06K(metric), 68°/79°C, concealed pendent, residential sprinklers have been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Underwriters Laboratories - Evaluation and listing, 'UL listing'.
2. Underwriters Laboratories Canada - Evaluation, follow-up services and listing, 'cUL listing'.
3. NSF International Standard / American National Standard NSF/ANSI 61-2007, 'Drinking Water System Components - Health Effect'.

## 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. Only install base part num. 13637A-X sprinkler with base part num. 12207 cover plate assembly for concealed mounting.
- iv. The maximum working pressure is 1210 kPa.

## Producer's description

The Viking Freedom®, Model: SIN VK468, 15NS thread x 7.06K(metric), 68°/79°C, concealed pendent, residential sprinklers are small high sensitivity glass bulb residential sprinklers for use with a domed cover assembly. The orifice design, with a K-Factor of 7.06K(metric), allows the sprinkler's efficient use of available water supplies for the hydraulically designed fire-protection system. The fast response glass bulb and special deflector combine speed of operation and areas of coverage to meet residential sprinkler standards.

This concealed type sprinkler is pre-assembled with a threaded adapter for installation with the domed cover that provides up to 12.7 mm of vertical adjustment. The cover plate is available with several decorative finishes to meet design requirements. The two-piece design allows installation and testing of the sprinkler prior to installation of the cover plate. The "push-on", "thread-off" design of the concealed cover plate assembly allows easy installation of the cover plate after the system has been tested and the ceiling finish has been applied. The cover assembly can be removed and reinstalled, allowing temporary removal of ceiling panels without taking the sprinkler system out of service or removing the sprinkler.

## Technical specification

The following details are a representative extract of the technical specification for the Viking Freedom®, Model: SIN VK468, 15NS thread x 7.06K(metric), 68°/79°C, concealed pendent, residential sprinklers and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

SIN:	VK468
Base part num.:	13637A-X
Minimum operating pressure:	as per minimum water supply requirements for areas of coverage
Maximum working pressure:	1210 kPa (175 psi)
Factory tested hydrostatically:	3450 kPa (500 psi)
Thread size:	15 mm NPT (1/2")
Nominal K-factor:	7.06K(metric), l/min / kPa <sup>-0.5</sup>
Nominal temperature ratings	68°/79°C (155° /175°F)
Sprinkler finishes	Brass, Chrome-Enloy® (patents pending), white, and black
Sprinkler materials:	
Frame casting:	Brass UNS-C84400
Deflector:	UNS-C23000, Phosphor Bronze UNS-C51000, or Brass UNS-26000
Bulb:	Glass, nominal 3 mm diameter
Belleville spring sealing assembly:	Nickel alloy, coated on both sides with Teflon tape
Compression screw:	Brass UNS-C36000
Pip cap:	Brass UNS-C31600
Cover adapter:	Cold Rolled steel UNS-G10080. Finish: Clear chromate over zinc plating
Cover plate assembly materials:	
Cover plate:	Copper UNS-C11000 and brass UNS-C26800
Spring:	Beryllium nickel
Solder:	Eutectic
Finishes:	Polished chrome, White, Ivory, Black
Reference technical data sheet:	Form No. F_020206, 14-May-2007