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# **Certificate of Conformity**

Certificate num.	Registration date	Version		Valid until	
- ( - 4424		Number	Issue date	22.4	Page <b>1</b> of <b>2</b>
atp - 1121	11-Sep-1997	21	12-Mar-2025	30-Apr-2026	_

# **Product designation**

Hochiki, Model DFJ-90D, Class CS, heat detector

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

## Agent/distributor

Hochiki Australia Pty Ltd

Block Y, Unit 1 Regents Park Estate, 391 Park Road, REGENTS PARK, NSW, AUSTRALIA, 2143

### Registrant

Hochiki Australia Pty Ltd

Block Y, Unit 1 Regents Park Estate, 391 Park Road, REGENTS PARK, NSW, AUSTRALIA, 2143

#### **Producer**

**Hochiki Corporation** 

10 - 43, Kamiosaki 2-Chome, SHINAGAWA-KU, TOKYO, JAPAN, 141

### Conformance criteria and evaluation

The Hochiki, Model DFJ-90D, Class CS, heat detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

 Australian Standard AS ISO 7240.5:2018, 'Fire detection and alarm systems - Part 5: Point-type heat detectors'.

### **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. The heat detectors are used with the Hochiki bases, models YBN-R/4A, YBO-R/4A, and YCA-RL/3H2M.
- ii. The heat detectors are installed and maintained as recommended by the manufacturer.
- iii. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.

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.

11

Kaj Loh

Executive Officer - ActivFire Scheme





# Schedule to

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Certificate num.	Registration date	Version		Valid until	
afp - 1121	11-Sep-1997	Number 21	Issue date 12-Mar-2025	30-Apr-2026	Page <b>2</b> of <b>2</b>

### **Producer's description**

The Hochiki, Model DFJ-90D, Class CS, heat detector is designed to operate at a fixed alarm temperature. The heat sensitive element of the heat detector is an externally mounted thermistor that is electrically connected to circuitry which responds to a change in the environment temperature. When a sufficiently large change in the environmental temperature occurs the detector enters an alarm state.

The Hochiki, Model DFJ-90D, Class CS, heat detector is approximately 100 mm in diameter and has a height of approximately 47 mm when connected to its base. The thermistor protrudes from the detector enclosure and is encased in a protective, but open, outer cover. The detector has two protruding LEDs in the cover moulding which are red in colour in the alarm condition. Electrical connection of the detector is achieved through the mounting base.

The Hochiki model YBN-R/4A base is a conventional base which provides for separate IN/OUT terminations for the +ve and -ve supply lines and an earth connection.

The Hochiki model YBO-R/4A base is classified as a remote indicating base. In addition to providing separate IN/OUT terminations for the +ve and -ve supply lines and an earth connection, the base also incorporates electronic circuitry (for a remote indicating LED) which is activated when the attached detector enters into an alarm state. The Hochiki model YCA-RL/3H2M base is an addressable base designed to interface conventional detectors to the Hochiki GTP transmission protocol fire alarm system. An indicating LED, fitted to the side of the base, is lit by the control panel on receipt of a fire signal from the base. A remote indicator LED may be connected to the base if required.

## **Technical specification**

The following details are a representative extract of the technical specification for the Hochiki, Model DFJ-90D, Class CS, heat detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Alarm fixed temperature:  $92^{\circ}\text{C} (+ 5^{\circ}\text{C}, - 4^{\circ}\text{C})$ Operating temperature range:  $-10^{\circ}\text{C} \text{ to } + 70^{\circ}\text{C}$ 

**Line voltage to detector:** 24.0 Vdc (rated voltage)

15.0 - 30.0 Vdc (working range) 42.0 Vdc (maximum allowable)

Alarm state current:

 Maximum:
 80 mA @ 17.6 Vdc

 Minimum:
 10 mA @ 6.02 Vdc

 Quiescent state current:
 46.5 μA @ 15.0 Vdc

 50 0 μA @ 24 0 Vdc
 24 0 Vdc

50.0 μA @ 24.0 Vdc 52.5 μA @ 30.0 Vdc

160 μA @ 24.0 Vdc (surge current)

Size: 100 mm in diameter

Height of approximately 47 mm when connected to base

Tested Base Designation	Base + Detector Circuit Type
Hochiki, Model YBN-R/4A	Conventional
Hochiki, Model YBO-R/4A	Conventional
Hochiki, Model YCA-RL/3H2M	Analogue Addressable

### Supplementary information

### Hochiki, Model YBO-R/4A base:

The Hochiki model YBO-R/4A base is classified as a remote indicating base. In addition to providing separate IN/OUT terminations for the +ve and -ve supply lines and an earth connection, the base also incorporates electronic circuitry (for a remote indicating LED) which is activated when the attached detector enters into an alarm state.