



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1252	13-Oct-1999	Number 14	Issue date 26-Apr-2019	30-Apr-2020

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Product designation

Tyco Fire Products, Model TY-FRB: SIN TY2209, 10NS thread x 5.7K(metric), 57°/68°/79°/93°/141°C (3 mm bulb), pendant, quick response sprinklers

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

Agent/distributor

Tyco Fire Protection Products
Level 3, 95 Coventry Street, SOUTHBANK, VIC, AUSTRALIA, 3006

Registrant

Tyco Fire Protection Products
Level 3, 95 Coventry Street, SOUTHBANK, VIC, AUSTRALIA, 3006

Producer

Tyco Fire Protection Products
8902 North Interstate 27, LUBBOCK, TX, UNITED STATES, 79403

Conformance criteria and evaluation

The Tyco Fire Products, Model TY-FRB: SIN TY2209, 10NS thread x 5.7K(metric), 57°/68°/79°/93°/141°C (3 mm bulb), pendant, quick response sprinklers have been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Loss Prevention Council - Evaluation, surveillance and approval, 'LPC approval'.

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 fire sprinkler 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, with due consideration of the occupancy fire loading, sprinkler location and system hydraulic characteristics.

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

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Producer's description

Tyco Fire Products, Model TY-FRB: SIN TY2209, 10NS thread x 5.7K(metric), 57°/68°/79°/93°/141°C (3 mm bulb), pendant, quick response sprinklers are automatic sprinklers of the frangible bulb type. They are spray sprinklers intended for use in fire sprinkler systems designed in accordance with the installation rules recognized by the applicable authority having jurisdiction. Both the upright and pendent sprinklers produce a hemispherical water distribution pattern below the deflector.

Technical specification

The following details are a representative extract of the technical specification for the Tyco Fire Products, Model TY-FRB: SIN TY2209, 10NS thread x 5.7K(metric), 57°/68°/79°/93°/141°C (3 mm bulb), pendant, 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:	TY2109 / TY2209
Maximum working pressure:	1210 kPa (175 psi)
Thread size:	10NS (3/8" ISO 7/1-R3/8)
Nominal K-factor:	5.7 K(metric), l/min / kPa ^{0.5}
Nominal temperature rating	57°/68°/79°/93°/141° C (135°/155°/175°/200°/286°F)
Finishes:	Natural brass, chrome plated or white polyester (frame and deflector only)
Physical characteristics:	
Frame:	Bronze
Button:	Brass/copper
Sealing assembly	Beryllium Nickel w/Teflon
Bulb (3 mm dia.)	Glass
Compression screw	Bronze
Deflector:	Copper
Reference technical data sheet:	TFP670, July 2005