



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 439	28-Nov-1990	Number 13	Issue date 26-Apr-2019	30-Apr-2020

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Product designation

Tyco Fire Products, Model TY-FRL: SIN TY3321, 15NS thread x 8.1K(metric), 71°/100°C (solder), standard coverage, horiz. sidewall, 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-FRL: SIN TY3321, 15NS thread x 8.1K(metric), 71°/100°C (solder), standard coverage, horiz. sidewall, quick response 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. Factory Mutual - Evaluation and approval, 'FM 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.

(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 Tyco Fire Products, Model TY-FRL: SIN TY3321, 15NS thread x 8.1K(metric), 71°/100°C (solder), standard coverage, horiz. sidewall, quick response sprinklers are designed for use in commercial occupancies such as banks, hotels, shopping malls, schools, hospitals, etc.

They are designed for installation along a wall or the side of a beam and just beneath a smooth ceiling. Horizontal sidewall sprinklers are commonly used instead of pendent or upright sprinklers due to aesthetics or building construction considerations, where piping across the ceiling is not desirable.

The fusible link (heat collector) assembly is comprised of two halves that are joined together by a thin layer of solder. When the rated temperature is reached the solder melts and the two link halves separate allowing the sprinkler to operate.

Technical specification

The following details are a representative extract of the technical specification for the Tyco Fire Products, Model TY-FRL: SIN TY3321, 15NS thread x 8.1K(metric), 71°/100°C (solder), standard coverage, horiz. sidewall, 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	TY3321
Maximum working pressure	1210 kPa (175 psi)
Thread size	15NS (1/2" NPT)
Nominal K-factor	8.1 K(metric), l/min / kPa ^{0.5} (5.6 USGPM/psi ^{0.5})
Nominal temperature rating	74°/100°C
Finishes	Natural brass, chrome plated
Physical characteristics	
Frame	Bronze
Strut	Monel
Deflector	Bronze
Hook	Monel
Link assembly	Nickel
Ejection spring	Inconel
Button	Bronze
Seal	Teflon
Reference technical data sheet	TFP140, July 2004