CSIRO Verification Services
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Certificate of Conformity

Certificate num.	Registration date	Version Number	Issue date	Valid until	
afp - 1146	2-Jun-1998	13	26-Apr-2019	30-Apr-2020	Page **1** of **2**

Product designation

Tyco Fire Products, Model EC-14: SIN TY6237, 20NS thread x 20.2K(metric), 57º/68º/79º/93º/141ºC (3 mm bulb), extended coverage, pendent, quick/standard 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 EC-14: SIN TY6237, 20NS thread x 20.2K(metric), 57°/68°/79°/93°/141°C (3 mm bulb), extended coverage, pendent, quick/standard 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'.

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. 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.

(Limitations/conditions of conformance continue)

Issued by

David Whittaker
Executive Officer – ActivFire Scheme

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.

Schedule to
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ii. Specific or special requirements in relation to this product must be considered and included in the system design and installation.

iii. Only the Style 30 or 40 escutcheon are to be used for recessed installation. Style 60 escutcheon is for flush installation

iv. The maximum working pressure is 1210 kPa.

v. Lead coated sprinklers are not suitable for use in open sprinkler applications.

Producer's description

The Tyco Fire Products, Model EC-14: SIN TY6237, 20NS thread x 20.2K(metric), 57º/68º/79º/93º/141ºC (3 mm bulb), extended coverage, pendent, quick/standard response sprinklers are automatic sprinklers of the frangible bulb type.

Corrosion resistant coatings, where applicable, are utilized to extend the life of copper alloy sprinklers beyond that which would otherwise be obtained when exposed to corrosive atmospheres. Although corrosion resistant coated sprinklers have passed the standard corrosion tests of the applicable approval agencies, the testing is not representative of all possible corrosive atmospheres. Consequently, it is recommended that the end user be consulted with respect to the suitability of these corrosion resistant coatings for any given corrosive environment. The effects of ambient temperature, concentration of chemicals, and gas/chemical velocity, should be considered, as a minimum, along with the corrosive nature of the chemical to which the sprinklers will be exposed.

Technical specification

The following details are a representative extract of the technical specification for the Tyco Fire Products, Model EC-14: SIN TY6237, 20NS thread x 20.2K(metric), 57º/68º/79º/93º/141ºC (3 mm bulb), extended coverage, pendent, quick/standard 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	TY6237
Maximum working pressure	1210 kPa (175 psi)
Thread size	20NS (3/4" NPT)
Nominal K-factor	16.1 K(metric), l/min / $kPa^{0.5}$ (11.2 GPM/$psi^{0.5}$)
Nominal temperature rating	57º/68º/79º/93º/141ºC
Finishes	Natural brass, chrome plated, wax coated, lead coated, wax over lead coated
Physical characteristics	
Frame	Bronze
Button	Bronze
Sealing assembly	Beryllium Nickel w/Teflon
Bulb	Glass (3 mm dia)
Compression screw	Bronze
Deflector	Bronze
Reference technical data sheet	TFP220, December 2007

Supplementary information

Lead coating is utilised to extend the life of copper alloy sprinklers beyond that which would otherwise be obtained when exposed to corrosive atmospheres. Although lead coated sprinklers have passed the standard corrosion tests, the testing is not representative of all possible corrosive atmospheres. Consequently, it is recommended that the end user be consulted with respect to the suitability of these corrosive resistant coatings for any given corrosive environment.

The effects of ambient temperature, concentration of chemicals, and gas/chemical velocity should be considered, as a minimum, along with the corrosive nature of the chemical to which sprinklers are exposed.

Sprinkler Finishes:
Natural Brass
White Polyester
Lead Coated
Chrome Plated