



CSIRO Verification Services Clayton, Victoria, Australia +61 13 0036 3400 https://activfire.csiro.au

# **Certificate of Conformity**

Certificate num.	Registration date	V	ersion	Valid until	
afp - 3206	1-Dec-2017	Number	Issue date	22.4 222.4	Page <b>1</b> of <b>3</b>
		10	13-Apr-2023	30-Apr-2024	

# **Product designation**

### Surya, ASTM A135/A53 Series, Schedule 10, steel fire protection pipe

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

# Agent/distributor

Surya Roshni Limited

Prakesh Nagar, Sankhol, BAHADURGARH, HARYANA, INDIA, 124507

### Registrant

Surya Roshni Limited

Prakesh Nagar, Sankhol, BAHADURGARH, HARYANA, INDIA, 124507

#### Producer

Surya Roshni Limited Prakesh Nagar, Sankhol, BAHADURGARH, HARYANA, INDIA, 124507 Manufacturing unit (Primary)

Surya Roshni Limited Survey No. 188, Anjar Mundra Highway, Bhuvad, Anjar, KUTCH, GUJARAT, INDIA, 370130

# **Conformance criteria and evaluation**

The Surya, ASTM A135/A53 Series, Schedule 10, steel fire protection pipe has been evaluated and verified as conforming with the relevant requirements of the following criteria.

- 1. ASTM A53/A53M, 'Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless'.
- 2. ASTM A135/A135M, 'Standard Specification for Electric-Resistance-Welded Steel Pipe'.
- 3. 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. System design and installation shall 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.

(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

Kaj Loh Executive Officer – ActivFire Scheme





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This certificate remains the property of CSIRO and may be subject to amendment, suspension or withdrawal at any time. The validity and authenticity of this certificate can be verified by the certification register located at <u>https://activfire.csiro.au</u>

# Schedule to Certificate of Conformity

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ii. System design and installation requirements may specify a minimum wall thickness that precludes the use of some of the scheduled pipe sizes for certain applications and locations.

- iii. The dimensional and mechanical compatibility of pipes must be verified with the sizes of components by which they are connected or to which they connect.
- iv. The hot-dip galvanizing coating has not been accessed for conformance under the ActivFire® Scheme and is not part of this certification.

# **Producer's description**

The production and physical characteristics of Surya, ASTM A135/A53 Series, Schedule 10, steel fire protection pipe are summarised as follows:

The HDG coating is to AS/NZS 4792 and AS/NZS 4680.

# **Technical specification**

The following details are a representative extract of the technical specification for the Surya, ASTM A135/A53 Series, Schedule 10, steel fire protection pipe and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

#### Schedule of variant designations

The following is a schedule of validated variant designations of the certified/listed equipment.

DN	Inch	OD	Thickness	Surface finish options
65	2½"	73.03 mm (2.875")	3.048 mm (0.120")	Black/Galvanised
80	3"	88.90 mm (3.5")	3.048 mm (0.120")	Black/Galvanised
100	4"	114.3 mm (4.5")	3.048 mm (0.120")	Black/Galvanised
150 6"	۲"	165.1 mm (6.500")	3.40 mm (0.138")	Black/Galvanised
	16	168.2 mm (6.625")	3.40 mm (0.134")	Black/Galvanised
200	8"	219.1 mm (8.625")	4.78 mm (0.188")	Black/Galvanised
250	10"	273.1 mm (10.75")	4.78 mm (0.188")	Black/Galvanised

## Schedule of properties/characteristics

Chemical properties				
Composition, Max %				
Carbon	0.30%			
Manganese	1.20%			
Phosphorus	0.035%			
Sulfur	0.035%			
Physical properties				
Tensile Strength, Min.	415 N/mm <sup>2</sup> (MPa)			
Yield Strength, Min.	240 N/mm <sup>2</sup> (MPa)			
Elongation, Min.,%	Reference ASTM A135			

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# **Supplementary information**

Number

10

## Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference			Date issued		
Ident. type	Ident.	Title / description	(or date validated)	Source	
File ref.	VIZY.EX15061	VIZY.EX15061 Metallic Sprinkler Pipe (ul_w3_VIZY.EX15061_v_2017-11-30.pdf)	30-Nov-2017	Underwriters Laboratories Inc., US; Certifications Directory	
File No.	EX15061	Procedure And/Or Report Material Schedule 10 (black or galvanized) steel sprinkler pipe in 2- 1/2, 3, 4, 6, 8 and 10 in. nominal pipe sizes	29-Aug-2017	UL India Private Limited	
TC No.	SGSTL/QA/ASTM/2017/ 0725 DTD.24.062017 0726 DTD.24.06.2017 0727 DTD.24.06.2017 0728 DTD.24.06.2017 0730 DTD.24.06.2017 0730 DTD.24.06.2017	Surya Global Steel Tubes Limited Manufacturer's Test Certificates MS ERW Black steel pipes, Plain Ends of size 2 1/2" OD X 3.05 mm WT, Grade B in Length 6.95 to 7.05 Mtr. MS ERW Black steel pipes, Plain Ends of size 3" OD X 3.05 mm WT, Grade B in Length 4.00 to 7.00 Mtr. MS ERW Black steel pipes, Plain Ends of size 4" OD X 3.05 mm WT, Grade B in Length 6.00 to 6.05 Mtr. MS ERW Black steel pipes, Plain Ends of size 6" OD X 3.40 mm WT, Grade B in Length 6.50 to 6.55 Mtr. MS ERW Black steel pipes, Plain Ends of size 8" OD X 3.40 mm WT, Grade B in Length 6.50 to 6.55 Mtr. MS ERW Black steel pipes, Plain Ends of size 8" OD X 4.78 mm WT, Grade B in Length 5.75 to 5.85 Mtr. MS ERW Black steel pipes, Plain Ends of size 10" OD X 4.78 mm WT, Grade B in Length 5.75 to 5.85 Mtr.	24-Jun-2017	Surya Global Steel Tubes Ltd, IN	