



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3324	20-Feb-2019	Number 3	Issue date 29-Apr-2021	30-Apr-2022

Product designation

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

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

Agent/distributor

Shield Engineering Group Pty Ltd
322 Brenan Street, SMITHFIELD, NSW, AUSTRALIA, 2164

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 Shield, 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.

- Underwriters Laboratories - Evaluation and listing, 'UL listing'.
- ASTM A53/A53M, 'Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless'.
- ASTM A135/A135M, 'Standard Specification for Electric-Resistance-Welded Steel Pipe'.

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.

- 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

David Whittaker
Executive Officer – ActivFire Scheme



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.

Technical specification

The following details are a representative extract of the technical specification for the Shield, 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"	165.1 mm (6.578")	3.40 mm (0.134")	Black/Galvanised
150	6"	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 ² (MPa)
Yield Strength, Min.	240 N/mm ² (MPa)
Elongation, Min., %	Reference ASTM A135

Supplementary information

Schedule of relevant articles

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

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	Ident.			
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.24.06..2017 0726 DTD.24.06.2017 0727 DTD.24.06.2017 0728 DTD.24.06.2017 0729 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 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