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APPROVAL REPORT

Project No: PR473073

Class: 1630

Product Type: Steel Pipe for Automatic Fire Sprinkler Systems

Product Name: Steel Pipe Manufactured to
ASTM A795 / A795M Schedule 10 Specifications
8 Inch NPS

Name of Report Holder: Al Jazeera Steel Products Co SOAG

Address of Report Holder: Road No-3 Sohar Industrial Estate
PO Box 40
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Customer ID: 127859

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16 March 2025

Date of Approval

1 INTRODUCTION

- 1.1** Al Jazeera Steel Products Co SOAG requested an FM Approval examination of their products with rated working pressures in accordance with the following:

Project Scope - Steel Pipe						
Model	Product Type	End Connections	Surface Finishes	Sizes NPS	Rated Working Pressure	
					psi	kPa
Schedule 10	ASTM A795 / A795M	Rolled Groove Welded	Black Painted Hot Dip Galvanized	8	175	1205

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1.3 Standards

1.3.1 FM Approvals Standards

Title	Number	Issue Date
Steel Pipe for Automatic Fire Sprinkler Systems	1630	July 2021

1.4 Listing

The product will be updated in the Approval Guide, an on-line resource of FM Approvals, as detailed in an attachment at the end of this report. Deletions from any current product listing are shown with strikethroughs and additions to the Approval listing are shown in red text.

2 DESCRIPTION

2.1 ASTM A795 / A795M Schedule 10 Sprinkler Pipe

Schedule 10 sprinkler pipe manufactured in accordance with the specifications set forth in American Society of Testing and Materials (ASTM) Standard A795 / A795M has nominal wall thicknesses as detailed below. As part of the evaluation, steel manufactured to the requirements of ASTM A795 / A795M Grades A and B have been considered. The pipe is available in a black painted or hot dip galvanized surface finish and the end connections are rolled groove and welded.

ASTM A795 / A795M Schedule 10 Sprinkler Pipe Dimensions		
Nominal Pipe Size inch	Nominal Outside Diameter inch (mm)	Nominal Wall Thickness inch (mm)
8	8.625 (219.1)	0.188 (4.78)

3 EXAMINATIONS AND TESTS

- 3.1** Samples were submitted for examination and testing. The samples were considered to be representative of the product line and were examined, tested, and compared to the manufacturer's drawings. All data remains on file at FM Approvals along with other documents and correspondence applicable to this program.

- 3.2** All testing and analysis considered appropriate was conducted and verified to be in compliance with the standards defined in Section 1.3.
- 3.3** Detailed analysis of the examination and testing can be found as an attachment at the end of this Report.

4 MARKING

- 4.1** Each length of pipe shall be permanently and continuously marked with the following minimum information:
- Manufacturer's name or trademark
 - Pipe size and nominal length
 - Schedule or model reference
 - Rated working pressure
 - National or International standard to which the pipe was manufactured
 - Manufacturing Source code
 - Heat number or Run number
 - The FM Approvals Certification Mark
- 4.2** Markings shall be painted, inked or laser printed on the outside surface of each length of pipe at regular intervals. The spacing between the end of one complete marking and the start of the next shall not exceed 12 inches (300 mm).
- 4.3** Each marking described above shall be legible and durable and shall be applied in any of, or any combination of, the above methods.

5 REMARKS

- 5.1** The FM Property Loss Prevention Data Sheets should be strictly adhered to when installing this product.
- 5.2** Installations shall comply with the latest edition of the manufacturer's instruction manual.
- 5.3** Tampering and/or replacement with non-factory components may adversely affect the safe use of the product.

6 SURVEILLANCE AUDIT

The design and manufacturing facilities at the following locations are subject to follow-up audit inspections. The facilities and quality control procedures in place have been found to be satisfactory to manufacture product identical to that examined and tested as described in this Report. A revision request form shall be submitted to FM Approvals for requesting any additional manufacturing facilities which are not listed below. The Products discussed in this Report are FM Approved only when designed and manufactured in the following facility:

Design and Manufacturing

Al Jazeera Steel Products Co SOAG
Road No-3 Sohar Industrial Estate
PO Box 40
Sohar, 327
Oman

7 MANUFACTURER'S RESPONSIBILITIES

- 7.1** Documentation considered critical to this Approval is on file at FM Approvals and is listed in the Documentation File, Section 8, of this Report. No changes of any nature shall be made unless notice of the proposed change has been given and written authorization obtained from FM Approvals. The revision request form shall be forwarded to FM Approvals as notice of proposed changes.
- 7.2** The manufacturer is responsible for control of the product marking and installation instructions for the product.
- 7.3** The manufacturer shall provide installation, operating, and maintenance manual(s) with each system.
- 7.4** The manufacturer is responsible for performing the Manufacturing and Production Tests specified in the Standard defined in Section 1.3 of this Approval Report.

8 DOCUMENTATION FILE

All pertinent Report documents are outlined in the ATTACHMENTS list below.

9 CONCLUSION

The Products described in Section 1 of this Report meet FM Approvals requirements when manufactured at the facility detailed in Section 6 of this Report. Since a duly signed Master Agreement is on file for this manufacturer, Approval is effective the date of this report.

PROJECT DATA RECORD: PR473073

ATTACHMENTS:	Appendix A	Approval Guide Listings
	Appendix B	Detailed Analysis
	Appendix C	Critical Document List (CDL)

APPROVAL GUIDE LISTING**SCHEDULE 10**

Fire Protection – Automatic Sprinkler Systems – Pipes and Fittings for Aboveground – Steel Pipe –
Schedule 10 – Normal connections are welded, rolled groove or plain end

Al Jazeera Steel Products Co SOAG

Road No-3 Sohar Industrial Estate, PO Box 40, Sohar, 327, Oman

Product	Listing Country	Nominal Pipe Size, in.	Rated Working Pressure, psi	Rated Working Pressure, kPa	Certification Type
Schedule 10 ^{a, c, d, m, n, s, t}		1 1-1/4 1-1/2 2 2-1/2 3 4 6 8	175	1205	FM Approved

a - FM Approved for use with FM Approved pipe couplings on rolled grooves.

c - FM Approved for use in welded systems when supplied with standard bevel on ends.

d - When hot dip galvanized by factory, the sprinkler pipe is FM Approved for dry pipe systems.

m - FM Approved for use in all steel sprinkler systems composed of uncoated steel pipe.

n - FM Approved for use in hybrid sprinkler systems composed of uncoated steel and plastic piping.

s -Manufactured out of ASTM A795 Grades A & B steel as an alternate material.

t -Pipe 4, 5, and 6, and 8 in. is also FM Approved with a wall thickness of 0.188 inch (4.78 mm), which is above ASME B36.10 specifications for Schedule 10 pipe.

DETAILED ANALYSIS**1 EXAMINATION**

The manufacturer provided samples of their pipe as detailed below for examination and testing. The samples were considered to be representative of the product line and were examined, tested, and compared to the manufacturer's drawings. All data is on file at FM Approvals along with other documents and correspondence applicable to this program.

FM 1630 Sample Requirements - Steel Pipe												
Provide samples of each size listed below using the guidelines for number of samples by test based on end connection type												
Model	Product Type	End Connection	Examination	Hydrostatic Strength	Bending Moment Resistance	Rotational Bending Moment Resistance	Vibration Resistance	Marking Durability	Corrosion Resistant Coatings	Long Term Corrosion	Chemical Compatibility	Corrosion Evaluation
NOMINAL PIPE SIZES			NPS	NPS	NPS	NPS	NPS	NPS	NPS	NPS	NPS	
Sch. 10	ASTM A795	Roll Groove	8	8								

Provide samples as specified below for each size listed in the Sample Requirements table.										
End Connection	Examination	Hydrostatic Strength	Bending Moment Resistance	Rotational Bending Moment Resistance	Vibration Resistance	Marking Durability	Corrosion Resistant Coatings	Long Term Corrosion	Chemical Compatibility	Corrosion Evaluation
Roll Groove		4								
4	For roll grooved end connections, provide samples that have been assembled using rigid couplings from two different Approved manufacturers and flexible couplings from two different manufacturers for a total of four different combinations per size. All available surface finishes shall be equally distributed across all sample assemblies.									

2 DESCRIPTION**2.1 Hydrostatic Strength**

Samples as detailed above were filled with water, cleared of all entrapped air, and subjected to four times their rated working pressure for 5 minutes. There were no signs of cracking, rupture or permanent distortion of the assembly as a result of this test. These results are considered satisfactory.

3 Conclusion

Based on the above results, no additional tests were deemed necessary.

FM APPROVALS PROJECT NO: **Error! Reference source not found.**

CRITICAL DOCUMENT LIST (CDL)

The following drawings describe the various aboveground steel sprinkler pipes discussed in this Report and are filed under the project identification numbers detailed below.

Drawing No.	Description	Rev. Level
AJSP/DRG/ASTM A795/8INCH/0.188INCH	ASTM A795/A795M Scheule 10 Pipe Size Dimension For FM Approval Project ID # PR473073	0