

Certificate of Compliance

Certificate Number:

UL-US-L15200-571011-90307002-1

Report Reference:

EX15200-20070309

Issue Date:

2024-11-08

Issued to:

**AL JAZEERA STEEL PRODUCTS CO SAOG
Po Box 40
Sohar Industrial Estate Sultanate Of Oman 327
Oman**

This certificate confirms that representative samples of:

VIZY - Metallic Sprinkler Pipe

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the Standard(s) indicated on this Certificate.

UL 852, Edition 2, Issue Date 2008-10-01, Revision Date 2023-03-07

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.



A handwritten signature in black ink that reads 'David Piecuch'.

David Piecuch
UL Mark Certification Program Owner

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CERTIFICATE OF COMPLIANCE

Certificate number UL-US-L15200-571011-90307002-1
Report reference EX15200-20070309
Date 2024-11-08

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
10	Schedule Pipe
40	Schedule Pipe
80, Black or Galvanized	Schedule Pipe



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DESCRIPTION

PRODUCT COVERED:

USL -

Schedule 40 (black or galvanized) steel pipe in the 1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 5, 6 and 8 in. sizes as per ASTM A53, Grade A, Type E.

Schedule 40 (black or galvanized) steel pipe in the **1/2, 3/4**, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 5, 6 and 8 in. sizes as per ASTM A53, Grade B, Type E.

Schedule 10 (black or galvanized) steel pipe in the 1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 5, 6, and 8 in. sizes as per ASTM A53 and ASTM A795, Grade A, Type E.

Schedule 10 (black or galvanized) steel pipe in the 1/2, 3/4, 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 5, 6, and 8 in. sizes as per ASTM A53 and ASTM A795, Grade B, Type E.

Schedule 80 (black or galvanized) steel pipe in the 1-1/2, 2, 2-1/2, 3, and 4 in. sizes as per ASTM A53, Grade A, Type E.

Schedule 80 (black or galvanized) steel pipe in the 1-1/2, 2, 2-1/2, 3, and 4 in. sizes as per ASTM A53, Grade B, Type E.

Pipes are intended for use in wet, dry, preaction and deluge type sprinkler systems with threaded ends or unthreaded ends intended to be joined by welding or Listed Rubber Gasketed Fittings when installed in accordance with the fitting manufacturer's specifications.

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ENGINEERING CONSIDERATIONS:

USL - Indicates investigation to U.S. requirements.

CONSTRUCTION DETAILS:

The pipe is constructed from hot rolled steel coils that conform to ASTM A53.

Chemical Properties, ASTM A53, Grade A, Type E

Composition, max, %								
Carbon	Manganese	Phosphorus	Sulfur	Copper ^A	Nickel ^A	Chromium ^A	Molybdenum ^A	Vanadium ^A
0.25	0.95	0.05	0.045	0.40	0.40	0.40	0.15	0.08

^A The total composition for these five elements shall not exceed 1.00 %.

Chemical Properties, ASTM A53, Grade B, Type E

Composition, max, %								
Carbon	Manganese	Phosphorus	Sulfur	Copper ^A	Nickel ^A	Chromium ^A	Molybdenum ^A	Vanadium ^A
0.30	1.20	0.05	0.045	0.40	0.40	0.40	0.15	0.08

^A The total composition for these five elements shall not exceed 1.00 %.

Chemical Properties, ASTM A795, Grade A, Type E

Composition, max, %			
Carbon	Manganese	Phosphorus	Sulfur
0.25	0.95	0.035	0.035

Chemical Properties, ASTM A795, Grade B, Type E

Composition, max, %			
Carbon	Manganese	Phosphorus	Sulfur
0.30	1.20	0.035	0.035

Mechanical Properties, ASTM A53, Grade A, Type E

Tensile Strength, Min., N/mm ² (MPa)	Yield Strength, Min., N/mm ² (MPa)	Elongation, Min., %
330	205	Reference ASTM A53

Mechanical Properties, ASTM A53, Grade B, Type E

Tensile Strength, Min., N/mm ² (MPa)	Yield Strength, Min., N/mm ² (MPa)	Elongation, Min., %
415	240	Reference ASTM A53

Dimensions, ASTM A53, Schedule 40, Type E

Nominal Size, in.	Outside Diameter, in.	Outside Diameter Tolerance	Specified Wall Thickness, in.	Minimum Wall Thickness, in.
1/2	0.840	+/- 1/64 in.	0.109	0.095
3/4	1.050	+/- 1/64 in.	0.113	0.099
1	1.315	+/- 1/64 in.	0.133	0.116
1-1/4	1.660	+/- 1/64 in.	0.140	0.122
1-1/2	1.900	+/- 1/64 in.	0.145	0.127
2	2.375	+/- 1%	0.154	0.135
2-1/2	2.875	+/- 1%	0.203	0.178
3	3.500	+/- 1%	0.216	0.189
4	4.500	+/- 1%	0.237	0.207
5	5.563	+/- 1%	0.258	0.226
6	6.625	+/- 1%	0.280	0.245
8	8.625	+/- 1%	0.322	0.282

Dimensions, ASTM A795 Schedule 10, Type E

Nominal Size, in.	Outside Diameter, in.	Outside Diameter Tolerance	Specified Wall Thickness, in.	Minimum Wall Thickness, in.
1/2	0.840	+/- 1/64 in.	0.083	0.073
3/4	1.050	± 1/64	0.083	0.073
1	1.315	± 1/64	0.109	0.095
1-1/4	1.660	± 1/64	0.109	0.095
1-1/2	1.900	± 1/64	0.109	0.095
2	2.375	± 1%	0.109	0.095
2-1/2	2.875	± 1%	0.120	0.105
3	3.500	± 1%	0.120	0.105
3-1/2	4.000	± 1%	0.120	0.105
4	4.500	± 1%	0.120	0.105
5	5.563	± 1%	0.134	0.116
6	6.625	± 1%	0.134	0.116
8	8.625	± 1%	0.188	0.164

Dimensions, ASTM A53, Schedule 80, Type E

Nominal Size, in.	Outside Diameter, in. (mm)	Outside Diameter Tolerance	Specified Wall Thickness, in. (mm)	Wall Thickness Tolerance
1-1/2	1.900 (48.3)	+/- 1/64 in.	0.200 (5.08)	-12.5%
2	2.375 (60.3)	+/- 1%	0.218 (5.54)	-12.5%
2-1/2	2.875 (73.0)	+/- 1%	0.276 (7.01)	-12.5%
3	3.500 (88.9)	+/- 1%	0.300 (7.62)	-12.5%
4	4.500 (114.3)	+/- 1%	0.337 (8.56)	-12.5%

ILLUSTRATION INDEX

Description	Illustration No
Marking	1

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