



# CUTTING EDGE TECHNOLOGY FOR **ASSURED** **QUALITY**



شركة الجزيرة للمنتجات الحديدية ش.م.ع.ع

**Jazeera Steel**  
AL JAZEERA STEEL PRODUCTS CO. SAOG

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# INDEX / CONTENTS

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▶▶ INTRODUCTION.....	1-2
▶▶ CERTIFICATION.....	3-4
▶▶ QUALITY POLICY / MISSION STATEMENT.....	5
▶▶ TECHNICAL DATA-ASTM A53.....	6-8
▶▶ TECHNICAL DATA-EN 10219-1&2.....	10-15
▶▶ TECHNICAL DATA-EN 39.....	16
▶▶ TECHNICAL DATA-ASTM A135/A795.....	17-19
▶▶ TECHNICAL DATA-ASTM A500.....	20-27
▶▶ TECHNICAL DATA-HOT ROLLED CUT TO LENGTH SHEETS.....	28
▶▶ TECHNICAL DATA-HOT ROLLED MERCHANT BAR PRODUCTS.....	29-35
▶ CHANNELS	
▶ ANGLES	
▶ FLAT BARS	
▶ ROUND BAR	
▶ SQUARE BAR	
▶▶ DEFORMED BAR (REBAR) CHARACTERISTICS.....	36





In the industrial scene of the Sultanate of Oman. For the first time in Oman, Electric Resistance Welded (ERW) tubular products in circular square, and rectangular hollow sections Hot rolled merchant bar products in Angles, Channels, Round, Square, Flat Bars, TMT Bars were manufactured at Al Jazeera Steel Products Co. SAOG (Formerly known as Al Jazeera Tube Mills Company S.A.O.G.)

Promoted by a group of Omani entrepreneurs with a fairly large holdings with the general public of the Sultanate, Al Jazeera has become one of the leading tubing manufacturers in the Middle East. From its modern plant located at Sohar(Oman) Al Jazeera offers Mild Steel ERW tubular products in both Black and Galvanized class with plain end and threaded and coupled ends and Hot Rolled Merchant bar products in AS Rolled and galvanized condition. conforming to ASTM, BS, DIN, EN and other International specifications.

Al Jazeera boasts of installing some of the latest and most modern machineries in the plant. Al Jazeera's manufacturing facilities include four tube production lines supplied by M/s. Abbey Etna Inc., Ohio, USA, M/s. TRM Thailand and M/s. Prasert Machineries Thailand. There are three galvanizing lines with main line supplied by M/s. BERG, Germany. One hot rolling mill supplied from HTC, China Composed of multinational workforce and managed by competent technical and managerial professionals, Al Jazeera has been seized with a vision to becoming one of the leading tubings suppliers in the world. At Al Jazeera, production processes have been integrated with modern quality controls like, e.g., online Eddy Current Testing facility, Universal Testing Machine, Hardness Machine and Inverted Metallurgical Microscope with CCD camera attachment, optical spectrometer, Bend test machine, etc.

Al Jazeera currently export its products to 25 different countries including USA, Canada, Australia, Germany and other European Union countries.




## Certifications / Approvals

In its zeal to set higher quality standards Jazeera achieved QMS ISO 9001:2015 certification by GLOBAL GROUP

In addition to above Al Jazeera's Quality Management System conforms to the requirements of

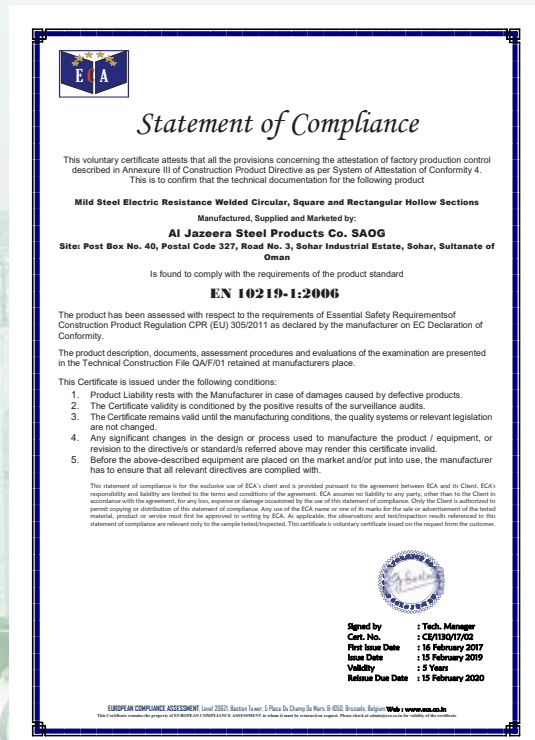
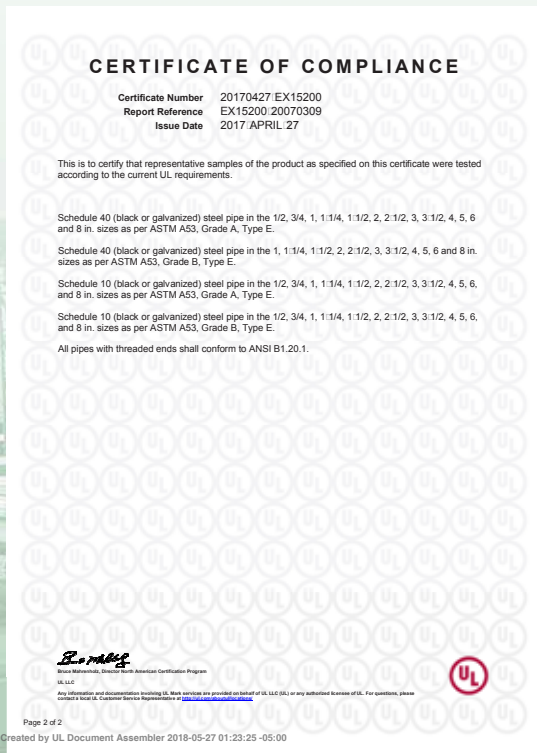
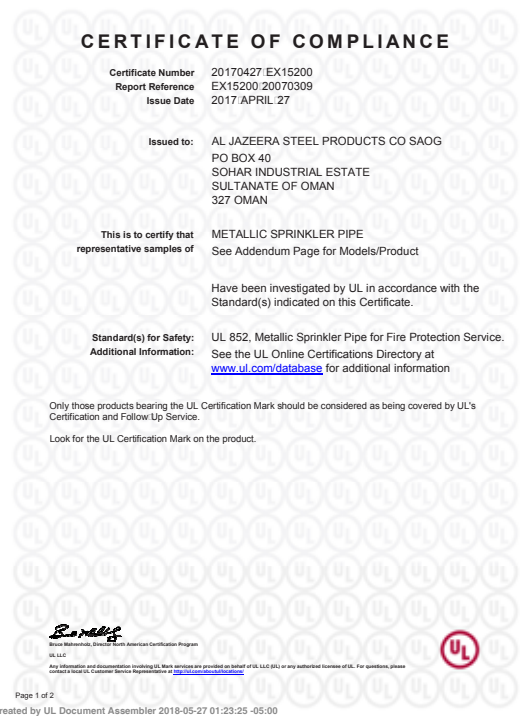
- ▶ UL (Underwriters Laboratories, USA) has also certified Al Jazeera for manufacturing of Metallic Sprinkler Steel Tubes for Fire Protection services.
- ▶ Al Jazeera is also having CE Mark Certification to supply its product in construction field in European Union CPD (Construction Products Directive) 89/106/EEC.
- ▶ Al Jazeera is also certified by FM APPROVALS, USA for manufacturing of steel pipes for Automatic Fire Sprinkler Systems.
- ▶ Jazeera is also having UAE Civil Defense Approval for supplying its product to various projects under Civil Defense in United Arab Emirates.
- ▶ Al Jazeera is also certified by UK CARES & DCL for manufacturing of BS 4449: 2005B 500B REBAR



One of the most significant milestones achieved by Al Jazeera is in the field of customer service. It is a constant effort of Jazeera to shorten the time lag between receipt of techno-commercially acceptable order and its execution. Besides this people at Al Jazeera take utmost care to ensure that the products are delivered according to the needs of customers.

At present Jazeera meets the requirements of tubes & merchant bars conforming to various steel grades and international standard specifications. In our endeavor to cater the wider spectrum of industry's needs we at Jazeera also offer tubes & merchant bars for general engineering purposes. This gives the product range an additional strength.

The company aims to achieve customer satisfaction for every category of customers and to be preferred partner in the region with all relevant principles while creating an environment that provides constant challenges and growth possibilities for all entities involved.



**Statement of Compliance**

This voluntary certificate attests that all the provisions concerning the attestation of factory production control described in Annexure III of Construction Product Directive as per System of Attestation of Conformity 4. This is to confirm that the technical documentation for the following product:

**Mild Steel Electric Resistance Welded Circular, Square and Rectangular Hollow Sections**

Manufactured, Supplied and Marked by:  
**Al Jazeera Steel Products Co. SAOG**  
 Site: Post Box No. 40, Postal Code 327, Road No. 3, Sohar Industrial Estate, Sohar, Sultanate of Oman

Is found to comply with the requirements of the product standard  
**EN 10255:2004+A1:2007**


The product has been assessed with respect to the requirements of Essential Safety Requirements of Construction Product Regulation CPR (EU) 305/2011 as declared by the manufacturer on EC Declaration of Conformity.

The product description, documents, assessment procedures and evaluations of the examination are presented in the Technical Construction File QAF01 retained at manufacturers place.

This Certificate is issued under the following conditions:

1. Product Liability rests with the Manufacturer in case of damages caused by defective products.
2. The Certificate validity is conditioned by the positive results of the surveillance audits.
3. The Certificate remains valid until the manufacturing conditions, the quality systems or relevant legislation are not changed.
4. Any significant changes in the design or process used to manufacture the product / equipment, or revision to the directives or standards referred above may render this certificate invalid.
5. Before the above-described equipment are placed on the market and/or put into use, the manufacturer has to ensure that all relevant directives are complied with.

This statement of compliance is for the exclusive use of ECA client and is provided pursuant to the agreement between ECA and its Client. ECA's responsibility and liability are limited to the terms and conditions of the agreement. ECA assumes no liability to any party other than to the Client, in accordance with the agreement, for any loss, expense or damage incurred by the use of this statement of compliance. Only the Client is authorized to request copying or distribution of this statement of compliance. Any use of the ECA name or other marks for the advertisement of the manufacturer's product or services must first be approved in writing by ECA. At application, the observations and nonconformity results referred to in the statement of compliance relevant only to the sample investigated. This certificate is a voluntary certificate issued on the request from the customer.

  
 Signed by : Tech. Manager  
 Cert. No. : CE1517792  
 First Issue Date : 16 February 2017  
 Issue Date : 15 February 2019  
 Validity : 5 Years  
 Renewal Due Date : 15 February 2020

EUROPEAN COMPLIANCE ASSESSMENT Ltd 17021 Batten Lane 5 Park Dr Derby De Mex. 8 82Ea Derbyshire UK www.euracab.com  
 This Certificate remains the property of EUROPEAN COMPLIANCE ASSESSMENT Ltd and may not be used or copied without the express prior written consent of EUROPEAN COMPLIANCE ASSESSMENT Ltd.

**CERTIFICATE OF APPROVAL**

**Product Conformity Certification**

This is to certify that  
**Al Jazeera Steel Products Co. S.A.O.G ( Oman )**  
 at its establishment at  
**Sultanate of Oman**  
 has satisfied the Authority that it operates a quality management system that complies with the requirements of BS EN ISO 9001 and the relevant CARES Quality and Operations Assessment Schedules. Where appropriate, and as listed below, it has further satisfied the Authority that it manufactures and/or supplies products that conform with the stated product standards and is entitled to use the CARES marks on its products using the processes and procedures registered with the Authority.

**Scope of certification:**  
 BS 4449 2005 Grade B500B Bar 8 to 32mm

This certificate remains the property of the Authority and is issued subject to the Regulations of the Authority. This certificate is uncontrolled when printed. To check the validity of this certificate please visit [www.ukcares.com](http://www.ukcares.com) or contact us on +44 1732 450000.

CERTIFICATE NUMBER	FIRST APPROVAL	ISSUE DATE	EXPIRE DATE
161101	December 2016	01 January 2019	31 December 2019

SIGNED FOR UK CERTIFICATION AUTHORITY FOR REINFORCING STEEL

  
 Lee Brinkley  
 Chief Executive Officer



The use of the Authority's Mark indicates conformance in respect of those activities covered by the applicable certificate number 001.  
 UK Certification Authority for Reinforcing Steel, Production House, 21 Parkside Road, Goswells, Kent TN10 1HR, UK.  
 © Crowned under the Creative Commons Attribution-NonCommercial-ShareAlike license.  
 Call 044 1203200 4600 014

**CERTIFICATE OF COMPLIANCE**

Certificate Number 20171226 MH49792  
 Report Reference MH49792:20171212  
 Issue Date 2017 DECEMBER 26

Issued to: AL JAZEERA STEEL PRODUCTS CO SAOG  
 Po Box 40  
 Sohar Industrial Estate  
 Sultanate Of Oman  
 327 OMAN

This is to certify that representative samples of LEAD CONTENT VERIFICATION OF PRODUCTS IN CONTACT WITH POTABLE WATER DRINKING WATER SYSTEM COMPONENTS "Black Steel Pipes" (1/2" to 3"; 5" diameter and greater)

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

Standard(s) for Safety: NSF 61 –Drinking Water System Components – Health Effects  
 NSF/ANSI 372, Drinking Water System Components – Lead Content

Additional Information: See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow Up Service.

Look for the UL Certification Mark on the product.

  
 Any information and documentation involving UL Mark services are provided on behalf of UL LLC (LLC) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at [www.ul.com/contact](http://www.ul.com/contact)

Page 1 of 1  
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**CERTIFICATE OF COMPLIANCE**

Certificate Number 20140911 MH49792  
 Report Reference MH49792:20140905  
 Issue Date 2014 SEPTEMBER:11

Issued to: AL JAZEERA STEEL PRODUCTS CO SAOG  
 PO BOX 40  
 SOHAR INDUSTRIAL ESTATE  
 SULTANATE OF OMAN  
 327 OMAN

This is to certify that representative samples of LEAD CONTENT VERIFICATION OF PRODUCTS IN CONTACT WITH POTABLE WATER "USC, CNC" Galvanised Steel Pipes, size range 1/2" to 8"

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

Standard(s) for Safety: NSF 372 DRINKING WATER SYSTEM COMPONENTS LEAD CONTENT

Additional Information: See the UL Online Certifications Directory at [www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Classification Mark for the U.S. and Canada should be considered as being covered by UL's Classification and Follow Up Service and meeting the appropriate U.S. and Canadian requirements.

The UL Classification Mark includes: the UL in a circle symbol with the word "CLASSIFIED" (as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of the product; and the product category name (product identity) as indicated in the appropriate UL Directory. The UL Classification Mark for Canada includes: the UL Classification Mark for Canada with the word "CLASSIFIED" (as shown); a control number (may be alphanumeric) assigned by UL; a statement to indicate the extent of UL's evaluation of the product; and the product category name (product identity) in English, French, or English/French as indicated in the appropriate UL Directory.

Look for the UL Classification Mark on the product.

  
 William R. Conroy, Director, North American Certification Programs  
 UL LLC  
 Any information and documentation involving UL Mark services are provided on behalf of UL LLC (LLC) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at [www.ul.com/contact](http://www.ul.com/contact)

Page 1 of 1  
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**FM APPROVED**

**Certificate of Compliance**

This certificate is issued for the following  
**SCHEDULE 40 STEEL SPRINKLER PIPE**  
 SIZES: 1, 1-1/4, 1-1/2, 2, 2-1/2, 3, 3-1/2, 4, 4-1/2, 5, 6, 8 AND 9 NOMINAL

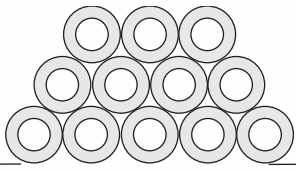
Prepared For:  
 Al Jazeera Steel Products Co SAOG  
 P.O. Box 40, Postal Code 327  
 Sohar Industrial Estate  
 Sohar  
 Sultanate of Oman

FM Approval Class: HDG Steel Pipe for Automatic Fire Sprinkler Systems  
 Approval Identification: 3226617 Approval Date: August 31, 2010

For more than 100 years FM Approvals has partnered with business and industry to ensure product quality.

  
 Richard B. Dwyer  
 Group Manager - Mechanical Group  
 FM Approvals  
 1715 Westborough Turnpike  
 Westborough, MA 01581  
 August 31, 2010





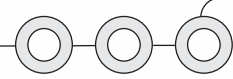
Coil Storage



Inspection



Slitting



Decoiling

## Quality Policy

Al Jazeera Steel Products Co SAOG will constantly strive to produce & supply High Quality Steel Pipes & Hot Rolled Steel Products complying with various International Standards. It will be our constant effort to anticipate & exceed customer expectation.

The company will work to achieve sustained growth for its shareholders by constantly engaging and working with our customers as well suppliers in an environment of trust and mutual benefit.

Continual Improvement, innovation, enhancement of employee skills through training, review and adherence to Quality Management System will be integral to our business.

Chief Executive Officer

## Mission Statement

We at Jazeera share a common desire to continuously grow and become one of the leading manufacturers of steel products in the region, meeting and exceeding the aspirations of customers, shareholders and employees shall be the guiding principle for our growth.



**TECHNICAL DATA OF BLACK AND HOT DIP GALVANIZED STEEL PIPES CONFORMING TO ASTM A 53 GRADE A & B SCH-40 ASTM A 795 GRADE A & B SCH - 40**

NOMINAL PIPE SIZE INCH	NOMINAL PIPE SIZE MM	OUTSIDE DIAMETER		WALL THICKNESS		WEIGHT OF BLACK PIPES				TEST PRESSURE				SOCKET DIMENSIONS				NO. OF PCS PER LIFT
		STANDARD INCH	MM	STANDARD MM	INCH	KG/MTR	MTR/TON	LB/FT	FT/TON	GRADE A PSI	GRADE B KPA	GRADE A KPA	GRADE B PSI	MIN OUTSIDE DIA INCH	MM	MIN LENGTH INCH	MM	
1/2	15	0.840	21.3	0.109	2.77	1.27	787	0.85	2583	700	4800	700	4800	1.063	27.0	1.500	38.1	120
3/4	20	1.050	26.7	0.113	2.87	1.69	592	1.13	1941	700	4800	700	4800	1.313	33.4	1.563	39.7	84
1	25	1.315	33.4	0.133	3.38	2.50	400	1.68	1312	700	4800	700	4800	1.576	40.0	1.938	49.2	60
1.1/4	32	1.660	42.2	0.140	3.56	3.39	295	2.27	968	1200	8300	1300	9000	1.900	48.3	2.000	50.8	42
1.1/2	40	1.900	48.3	0.145	3.68	4.05	247	2.72	810	1200	8300	1300	9000	2.200	55.9	2.000	50.8	36
2	50	2.375	60.3	0.154	3.91	5.44	184	3.66	603	2300	15900	2500	17200	2.750	69.8	2.063	52.4	26
2.1/2	65	2.875	73.0	0.203	5.16	8.63	116	5.80	380	2500	17200	2500	17200	3.250	82.5	3.063	77.8	18
3	80	3.500	88.9	0.216	5.49	11.29	89	7.58	291	2220	15300	2500	17200	4.000	101.6	3.188	81.0	14
3.1/2	90	4.000	101.6	0.226	5.74	13.57	74	9.12	242	2030	14000	2210	15200	4.625	117.5	3.313	84.1	12
4	100	4.500	114.3	0.237	6.02	16.07	62	10.80	204	1900	13100	2210	15200	5.000	127.0	3.438	87.3	10
5	125	5.563	141.3	0.258	6.55	21.77	46	14.63	151	1670	11500	1950	13400	6.296	159.9	3.688	93.7	7
6	150	6.625	168.3	0.280	7.11	28.26	35	18.99	116	1520	10500	1780	12300	7.390	187.7	4.938	125.4	7
8	200	8.625	219.1	0.322	8.18	42.55	24	28.58	79	1340	9200	1570	10800	--	--	--	--	5

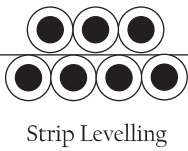
**TECHNICAL DATA OF BLACK AND HOT DIP GALVANIZED STEEL PIPES CONFORMING TO ASTM A53 GRADE A & B SCHEDULE 80**

NOMINAL PIPE SIZE INCH	NOMINAL PIPE SIZE MM	OUTSIDE DIAMETER		WALL THICKNESS		WEIGHT OF BLACK PIPES				TEST PRESSURE				NO. OF PCS PER LIFT
		STANDARD INCH	MM	STANDARD INCH	MM	KG/MTR	MTR/TON	LB/FT	FT/TON	GRADE A KPA	GRADE B PSI	GRADE A PSI	GRADE B KPA	
2	50	2.375	60.3	0.218	5.54	7.48	134	5.03	439	2500	17200	2500	17200	26
2.1/2	65	2.875	73	0.276	7.01	11.41	88	7.67	288	2500	17200	2500	17200	18
3	80	3.500	88.9	0.300	7.62	15.27	65	10.26	215	2500	17200	2500	17200	14
4	100	4.500	114.3	0.337	8.56	22.32	45	15.00	147	2700	18600	2800	19300	10

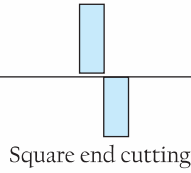
**TECHNICAL DATA OF BLACK AND HOT DIP GALVANIZED STEEL PIPES CONFORMING TO ASTM A53 GRADE A & B/ ASTM A 795 GRADE A & B SCH-10**

NOMINAL PIPE SIZE INCH	NOMINAL PIPE SIZE MM	OUTSIDE DIAMETER		WALL THICKNESS		WEIGHT OF BLACK PIPES				TEST PRESSURE				NO. OF PCS PER LIFT
		STANDARD INCH	MM	STANDARD INCH	MM	KG/MTR	MTR/TON	LB/FT	FT/TON	GRADE A KPA	GRADE B PSI	GRADE A PSI	GRADE B KPA	
3/4	20	1.050	26.7	0.083	2.11	1.28	781	0.86	2563	700	4800	700	4800	84
1	25	1.315	33.4	0.109	2.77	2.09	478	1.41	1570	700	4800	700	4800	60
1.1/4	32	1.660	42.2	0.109	2.77	2.69	372	1.81	1220	1000	6900	1000	6900	42
1.1/2	40	1.900	48.3	0.109	2.77	3.11	322	2.09	1055	1000	6900	1000	6900	36
2	50	2.375	60.3	0.109	3.05	3.93	254	2.64	835	1000	6900	1000	6900	26
2.1/2	65	2.875	73	0.120	3.05	5.26	190	3.53	624	1000	6900	1000	6900	18
3	80	3.500	88.9	0.120	3.05	6.46	155	4.34	508	1000	6900	1000	6900	14
3.1/2	90	4.000	101.6	0.120	3.05	7.41	135	4.98	443	1200	8300	1200	8300	12
4	100	4.500	114.3	0.120	3.05	8.37	119	5.62	392	1200	8300	1200	8300	10
5	125	5.563	141.3	0.134	3.4	11.58	86	7.78	283	1200	8300	1200	8300	7
6	150	6.625	168.3	0.134	3.4	13.85	72	9.30	237	1000	6900	1000	6900	7
8	200	8.625	219.1	0.188*	4.78	25.26	40	16.96	130	800	5500	800	5500	5
8	200	8.625	219.1	0.148	3.76	19.97	50	13.41	164	800	5500	800	5500	5

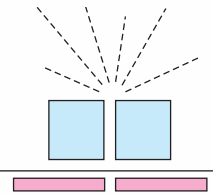




Strip Levelling



Square end cutting



Butt welding

## MECHANICAL PROPERTIES

Properties →	Tensile Strength		Yield Strength	
	psi	MPa	psi	MPa
Grade-A	48000	330	30000	205
Grade-B	60000	415	35000	240

Min Percentage Elongation in 2" [ 50mm] rounded to nearest 1/2

$$e = 625,000[1940] \times (A^{0.2}/U^{0.9})$$

A= cross sectional area of the tension specimen, rounded to the nearest 0.01 inch<sup>2</sup>[1mm<sup>2</sup>],

based on specified outside diameter. If the area is more than 0.75 inch<sup>2</sup> [500mm<sup>2</sup>], then

the value 0.75 inch<sup>2</sup> [500mm<sup>2</sup>] shall be used.

U= specified minimum tensile strength, psi[MPa].

## TOLERANCES

### OUTSIDE DIAMETER

SIZE FROM	SIZE TO	TOLERANCE INCH(MM)	
INCH (MM)	INCH (MM)	POSITIVE	NEGATIVE
1/2 (15)	1.1/2(40)	1/64 (0.40)	1/64 (0.40)
2 (50)	8 (200)	1% OF OD	1% OF OD

**THICKNESS** 12.5% max under the nominal wall thickness.

**WEIGHT** + / - 10% on calculated standard weight.

**END FINISH** Square Cut Ends for sizes less than or equal to 1.1/2" NPS  
Beveled Ends at 30° -0°/+5° for sizes 2" NPS and above.

**BEND TEST** Applicable for sizes 2" NPS and below  
90° bending radius should be 12 times of the tube diameter.

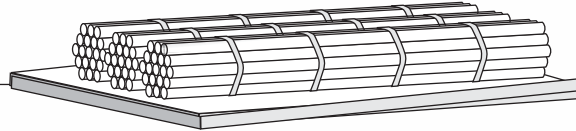
**FLATTENING TEST** Applicable for sizes 2" NPS and above in three stages.

**STAGE-1** For weld ductility until 2/3 of outside dia of specimen tube.  
**STAGE-2** For ductility of steel until 1/3 of outside dia of specimen tube.  
**STAGE-3** Full flattening for testing of laminated and unsound material.

### ZINC COATING

**MINIMUM** : 1.60 oz / ft<sup>2</sup> [490 Gm / Mtr<sup>2</sup>]  
**AVERAGE** : 1.80 oz / ft<sup>2</sup> [550 Gm / Mtr<sup>2</sup>]

### MARKING




**MARKING:**

**1. METALLIC SPRINKLER PIPES**

**For ½” & ¾” ASTM A53 Grade A SCH 40**

(UL) LISTED 3KBY STEEL AJSPC/ASTM A53/ASME SA53/SIZE/SCH 40/GRADE A /TYPE E/NDE/LENGTH/ HEAT NO...../OMAN.

**For 1” to 8” ASTM A53 Grade A & B SCH 40**

(UL) LISTED 3KBY STEEL  AJSPC/ASTM A53/ASTM A795/ ASME SA53/SIZE/ SCH 40/  
APPROVED

GRADE /TYPE E /NDE/LENGTH/ HEAT NO/OMAN.

**For 1/2” to 6” ASTM A53 Gr A/B & ASTM A795 Grade A/B SCH 10**

(UL) LISTED 3KBY STEEL AJSPC/ASTM A53/ASTM A795/SIZE/SCH 10/GRADE/TYP E/NDE/LENGTH/ HEAT NO/ OMAN.

**For 8” ASTM A53 Gr A/B & ASTM A795 Grade A/B 0.188” WALL THICKNESS**

(UL) LISTED 3KBY STEEL AJSPC/ASTM A53/ASTM A795/SIZE/0.188”/GRADE/TYP E/NDE/LENGTH/ HEAT NO/ OMAN.

NOTE: AJSPC – AL JAZEERA STEEL PRODUCTS CO. SAOG

**2. GALVANIZED NSF/ ANSI 372 CERTIFIED PIPES**

**(Galvanized Steel Pipes: ½” to 3/4” diameter size in Schedule 40)**

UND. LAB. CLFD STEEL PIPE NSF 372 MH49792 AJSPC/ASTM A53/ SIZE/SCH 40/GRADE/ TYPE E /NDE/LENGTH/ HEAT NO/OMAN.

**(Galvanized Steel Pipes: 1” to 8” diameter size in Schedule 40)**

UND. LAB. CLFD STEEL PIPE NSF 372 MH49792  AJSPC/ASTM A53/ASTM A795/SIZE/SCH 40/GRADE/  
APPROVED

TYPE E/NDE/LENGTH/ HEAT NO/OMAN.

**(Galvanized Steel Pipes: ½” to 8” diameter size in Schedule 10)**

UND. LAB. CLFD STEEL PIPE NSF 372 MH49792 AJSPC/ASTM A53/ASTM A795/SIZE/SCH 10/GRADE/TYP E/ NDE/LENGTH/ HEAT NO/OMAN.

NOTE: A) AJSPC – AL JAZEERA STEEL PRODUCTS CO. SAOG

**3. BLACK STEEL NSF/ ANSI 61 AND NSF/ ANSI 372 CERTIFIED PIPES**

**(Black Steel Pipes) – ½” to 3/4” diameter in Schedule 40)**

UL CLFD. PIPE NSF 61/NSF 372 MH49792 AJSPC/ASTM A53/SIZE/ SCH 40/ GRADE /TYPE E/NDE/LENGTH/ HEAT NO/OMAN.

**(Black Steel Pipes) – 1” to 3”, 5” to 08” diameter in Schedule 40)**

UL CLFD. PIPE NSF 61/NSF 372 MH49792  AJSPC/ASTM A53/ASTM A795/ SIZE/ SCH 40/ GRADE/  
APPROVED

TYPE E/NDE/LENGTH/ HEAT NO/OMAN.

**(Black Steel Pipes – ½” to 3”, 5” to 08” diameter in Schedule 10)**

UL CLFD. PIPE NSF 61/NSF 372 MH49792 AJSPC/ASTM A53/ASTM A795/ SIZE/SCH 10/ GRADE/ TYPE E/NDE/LENGTH/ HEAT NO/OMAN.

NOTE: A) AJSPC – AL JAZEERA STEEL PRODUCTS CO. SAOG

**B. ASTM A53 SCHEDULE 80 PIPES**

AJSPC/ASTM A53/SIZE/SCH 80/GRADE/TYP E/LENGTH/NDE/ HEAT NO. XXXXXXXX/ OMAN

SECTIONS	SIZE - MM	SIZE - INCHES (US CUSTOMARY UNITS)	Kg/Mtr	lbs/ft.
FLATS	38 x 4.5	1.496 x 0.177	1.34	0.90
	38 x 12	1.496 x 0.472	3.58	2.41
	40 x 4.0	1.574 x 0.157	1.26	0.85
	40 x 5.0	1.574 x 0.197	1.57	1.06
	50 x 4.0	2.0 x 0.157	1.57	1.06
	50 x 5.0	2.0 x 0.197	1.90	1.28
	50 x 6.0	2.0 x 0.236	2.36	1.59
	50 x 8.0	2.0 x 0.315	3.14	2.11
	50 x 9.0	2.0 x 0.354	3.53	2.37
	50 x 10.0	2.0 x 0.394	3.93	2.64
	50 x 12.0	2.0 x 0.472	4.71	3.17
	50 x 20.0	2.0 x 0.787	7.85	5.28
	50 x 25.0	2.0 x 0.984	9.81	6.59
	50 x 30.0	2.0 x 1.181	11.77	7.91
	60 x 5.0	2.36 x 0.197	2.36	1.59
	60 x 6.0	2.36 x 0.236	2.83	1.90
	60 x 10.0	2.36 x 0.394	4.71	3.17
	60 x 12.0	2.36 x 0.472	5.65	3.80
	60 x 20.0	2.36 x 0.787	9.42	6.33
	65 x 6.0	2.559 x 0.236	3.06	2.06
	65 x 9.0	2.559 x 0.354	4.59	3.09
	65 x 10.0	2.559 x 0.394	5.10	3.43
	65 x 12.0	2.559 x 0.472	6.12	4.11
	70 x 5.0	2.76 x 0.197	2.75	1.85
	75 x 6.0	3.0 x 0.236	3.53	2.37
	75 x 8.0	3.0 x 0.315	4.71	3.17
	75 x 12.0	3.0 x 0.472	7.07	4.75
	75 x 19.0	3.0 x 0.748	11.19	7.52
	75 x 20.0	3.0 x 0.787	11.78	7.91
	80 x 5.0	3.14 x 0.197	3.14	2.11
	80 x 6.0	3.14 x 0.236	3.77	2.53
	80 x 8.0	3.14 x 0.315	5.02	3.37
	80 x 10.0	3.14 x 0.394	6.28	4.22
	80 x 20.0	3.14 x 0.787	12.56	8.44
100 x 5.0	4.0 x 0.197	3.93	2.64	
100 x 6.0	4.0 x 0.236	4.71	3.17	
100 x 8.0	4.0 x 0.315	6.28	4.22	
100 x 9.0	4.0 x 0.354	7.07	4.75	
100 x 10.0	4.0 x 0.394	7.85	5.28	
100 x 12.0	4.0 x 0.472	9.42	6.33	
100 x 25.0	4.0 x 0.984	19.60	13.17	
SQUARE	12 x 12	0.472 x 0.472	1.13	0.76
	14 x 14	0.551 x 0.551	1.51	1.01
	16 x 16	0.630 x 0.630	2.01	1.35
	20 x 20	0.787 x 0.787	3.14	2.11
	25 x 25	1.0 x 1.0	4.91	3.30
	30 x 30	1.181 x 1.181	7.07	4.75
	40 x 40	1.575 x 1.575	12.60	8.47
	50 x 50	2.0 x 2.0	19.60	13.17
ROUNDS	16	0.629	1.58	1.06
	20	0.787	2.47	1.66
	25	1.000	3.85	2.59
	30	1.181	5.55	3.73
	32	1.260	6.31	4.24
	36	1.417	7.99	5.37
	40	1.575	9.85	6.62
	42	1.654	10.88	7.31
	45	1.772	12.49	8.39
	48	1.890	14.21	9.55
50	2.000	15.40	10.35	

# DEFORMED BAR (RE BAR) Characteristics

Diameter	From 8 mm to 32 mm	
Commercial Length	6 & 12 meters	
Specification	British Standard	BS 449:1997 Grade 460B/B500B
	American Standard	ASTM A 615 Grade 60
	German Standard	DIN 488-1:2009-08 Grade B500B
	ISO	ISO 6935 : 2015 Gr B500BWR

Standard Grade	Chemical Composition % Max				Mechanical Properties				Guage Length	Bending Test		Rebending Test	
	%C	%Mn	%S	%P	Ys N/mm2 Min	T.S. N/mm2 Min.	E at Fracture % Min.	Agt % Min		Bending Angle Degree	Bending Dia mm	RE-bending Angle Degree	Re-bending Dia mm
BS 4449:1997 Gr.460B	0.25	--	0.050	0.050	460	YSx1.08	14	5	Sd	--	--	45 ° to 23°	≤ 16 mm -Sd ≥ 16 mm 7d
BS 4449:2005 Gr.B 500B	0.22	--	0.050	0.050	500	YSx1.08	--	5	--	--	--	90 ° to 20°	≤ 16 mm -4d ≥ 16 mm 7d
ASTM A 615 Grade 60	--	--	0.060	--	420	620	≤ 20 -9 22-25 mm -8	--	200 mm	180 °	≤ 16 mm -3.5d 18-25 mm -5d ≥ 28mm -7d	--	--
DIN 488 :2009 Gr B500B	0.22	--	0.050	0.050	500	YSx1.08	--	5	Sd	--	--	90 ° to 20°	≤ 16 mm -5d 16-28 mm -8d ≥ 28 -32 mm -10d
ISO 6935:2015 Gr. B500B WR	.20	1.6	0.050	0.050	500	YSx1.08	14	5	5d	--	--	90° to 20°	--

YS - Yield Strength : TS- Tensile Strength ,E- Elongation :Agt -Total Elongation at maximum force

## Mill Standard Bar Count 12 meter Length

Nominal Dia	Unit Mass (Kg/Mtr)	Nominal Mass (Kg/piece)	Pieces/Bundle	Weight/Bundle (M.T.)
08	0.395	4.74	422	2.000
10	0.617	7.40	270	1.999
12	0.888	10.66	188	2.003
14	1.210	14.52	138	2.004
16	1.580	18.96	106	2.010
18	2.000	24.00	84	2.016
20	2.470	29.64	68	2.016
22	2.980	35.76	56	2.003
25	3.850	46.20	44	2.033
28	4.830	57.96	34	1.971
32	6.310	75.72	26	1.969

Rebar can be Supplied in 6.0 mtr or 12 mtr Length  
Plain Round Bars are produced in 6.0 mtr & 12 Mtrs in 16 to 50 mm Dia

## Permissible Deviation From Nominal Mass

Standard	Size (mm)	Deviation(%)
BS 4449:1997 Gr.460B	8 to 10	± 6.5
	> 10	± 4.5
BS 4449:2005 Gr.B 500B	Up to 8	± 6.0
	> 8	± 4.5
ASTM A 615 Grade 60	Up to 10	± 8.0
	> 10	± 6.0
DIN 488 :2009 Gr B500B	Up to 8	± 6.0
	> 8	± 4.5
ISO 6935:2015 Gr B500BWR	Up to 8	± 8.0
	10 to 12	± 6.0
	14 to 20	± 5.0
	25 to 32	± 4.0



## Bundle Characteristics

Weight	1,2 M.T.
Diameter of Bundle	150 to 300 mm (varies according to dia of rebar 8 mm to 36 mm)
Straps Per Bundle	Minimum 4 (Two end straps will be 0.50 Mtr from the End)



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**Jazeera Steel**  
 The Quality Standard in Steel

**حديد الجزيرة**  
 ذات المواصفات عالية الجودة

## شركة الجزيرة للمنتجات الحديدية ش.م.ع.ع

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