CONARES

صنع في الإمارات

MADE IN UAE


LET'S
STEEL
TOGETHER


INDEX

The world never stops, so do we

Working 24/7 to serve growing demands of steel,
Conares produces more than 1,000,000 MT annually.

1 Overview

25+

Years

Our Experience

Since its inception in 1988, Conares initially focused on steel trading. Having built extensive partnerships with renowned steel plants across the world, it brought the world-best competencies to the region, by setting up its own state of art manufacturing facility in UAE.

1M

Metric Tonnes

Our Production

As the Middle East focuses on infrastructure development, Conares serves as the perfect partner to meet the growing industry requirements for steel rebars & pipes. A diversified & full-fledged manufacturing facility based in the UAE, the strategic hub between the East & the West, Conares today is the premier producer of quality steel products for wide-ranging needs; having a total manufacturing capacity of more than 1,000,000MT annually.

DXB

Dubai

Our Location

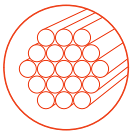
From its central location in Dubai, UAE; Conares serves an extensive network of clientele including pre-engineering companies, steel trading companies and construction majors not in the Middle East but across wider markets that are easily accessed from its headquarters.

500+

Employees

Our Team

Led by a team of experienced & skilled professionals, Conares has set new benchmarks in the steel industry through its commitment to quality, excellence & service standards. A trusted name in the industry, Conares is led by the vision to support the region's infrastructure development by providing world-class steel products through long-term partnerships.



Pipe

Pipes

Since 2005, Conares manufactures Pipes with a size range of 1/2" to 4". The Pipe Mills have an annual production capacity of 210,000 MT per year, coupled with the Galvanizing Mill of 40,000 MT per year. The pipes are produced in circular, rectangular & square sections conforming to leading international standards. Apart from its strong demand regionally, the pipes have a growing presence internationally. This has driven Conares to enhance its size range to 12", its Pipe production by 200,000 MT per year & its Galvanizing production by 40,000 MT per year.

Rebar

Rebars

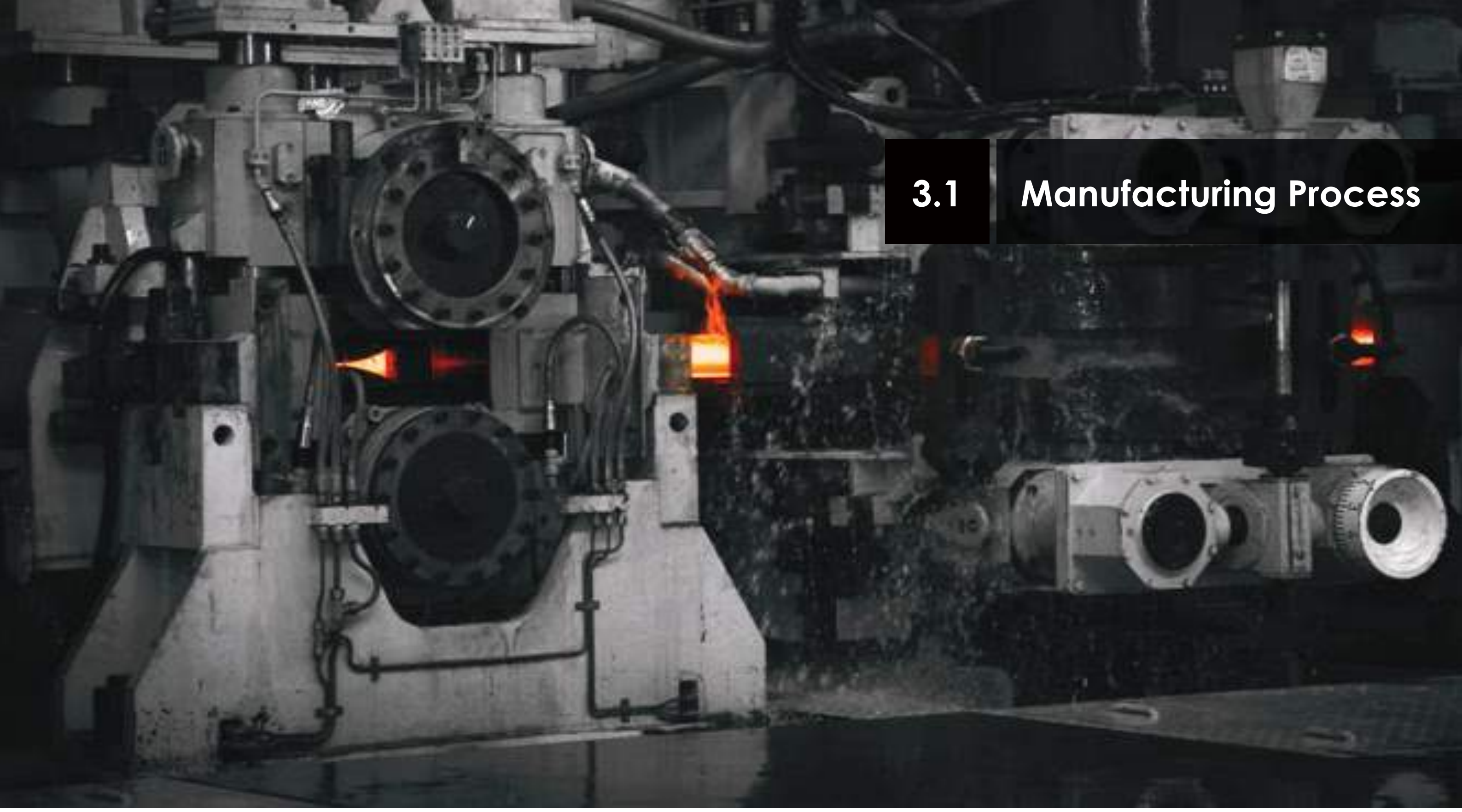
Since 2011, Conares manufactures Rebars with a size range of 8 to 40 mm. The Rebar Mill has an annual production capacity of 500,000 MT per year. Being regionally & internationally certified, the rebars are accepted globally. Conares has supplied rebars to milestone projects like Abu Dhabi Airport, Dubai Tram, Dubai Canal & Dubai Mall.

At **Conares** every business partnership, each product, every process & any aspect of service is defined by three core values – **Trust, Quality & Strength.**

2 Timeline

- **1988** – Founded as Abu Abdullah Trading
- **1989** – Renamed as Mech-Weld Trading
- **1995** – Introduced Russian Steel in Dubai
- **1997** – Established as United Metal Supply
- **1999** – Official Representatives of Yieh Phui & Al Jazeera
- **2000** – Renamed as Conares Metal Supply
- **2002** – Installed its Steel Service Center
- **2005** – Installed 1st & 2nd Pipe Mills
Total Production: 180,000 MT
- **2009** – Installed 3rd Pipe Mill
Total Production: 210,000 MT
- **2010** – Installed its Galvanizing Mill
Total Production: 250,000 MT
- **2011** – Installed its Rebar Mill
Total Production: 750,000 MT
- **2013** – Rebranded as Conares
- **2016** – Installing its 4th Pipe & 2nd Galvaizing Mill
Total Production: 990,000 MT
- **2017** – To install its Color Coated Mill
Total Production: 1,050,000 MT

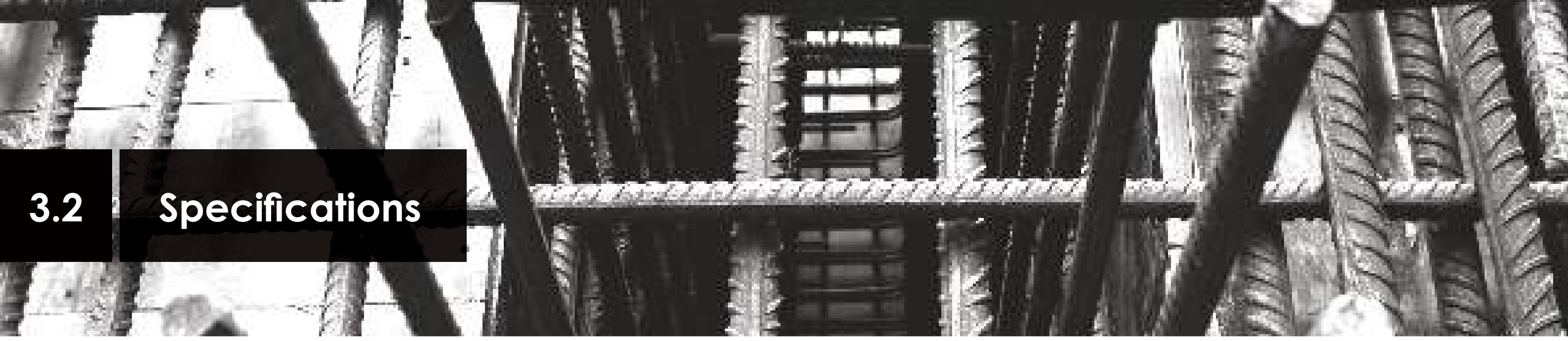
REBARS



3.1 Manufacturing Process

Step	Process	Description
1	**Loading**	Billets are loaded into the furnace.
2	**Furnace**	Billets are required to reach a minimum temperature of 1100°C. After which, the hot billets are pushed out of the furnace.
3	**Rolling**	The hot billet passes through 18 stands to form bars of desired shape & size.
4	**Quenching**	The bars pass through THERMAX, a patented quenching system. Quenching helps the bars to attain the required mechanical properties as per the standard (Tensile Strength, Yield Strength & Elongation).
5	**Cooling**	The bars are air-cooled on the cooling bed.
6	**Finishing**	The cooled bars are cut into commercial lengths up to 18 meters.
7	**Packaging**	The commercial bars are counted precisely to form uniform bundles. The bundles are machine strapped to secure tight wrapping. The wrapped bundles are weighed & tagged.

Siemens VAI, Italy, has supplied the Rebar Mill. The mill was one of the first projects where Siemens supplied both mechanical and electrical components together.



3.2 Specifications

Size Range 8mm to 40mm
Lengths 6, 9, 12 or 18 meters (as per customer requirement)
Packaging Bundles
Weight of Bundle - 1, 2 or 3 MT
Diameter of Bundle - 150-300mm (varies according to the bar diameter)
Straps per Bundle - Minimum 4 (2 end straps will 0.5m from the end)

Standard Grades

Grade	Chemical Composition % max								Mechanical Properties					Bending Test		Re-Bending Test	
	C	Mn	S	P	Si	Cu	N	Ceq	YS	TS	E	Agt	GL	Angle	BD	Angle	RBD
BS4449:1997 Gr 460B	0.25	-	0.05	0.05	-	-	0.012	0.51	460	1.08YS	14	5	5d	-	-	45°-23°	≤16mm - 5d >16mm - 7d
BS4449:2005 Gr 500B	0.22	-	0.05	0.05	-	0.80	0.012	0.50	500	1.08YS	-	5	-	-	-	90°-20°	≤16mm - 4d >16mm - 7d
ASTM A615 Gr 60	-	-	0.06	-	-	-	-	-	420	620	≤20mm 9 22-25mm 8 >25mm 7	-	200mm	180°	≤16mm - 3.5d 18-25mm - 5d ≥28mm - 7d	-	-
KWS GSO ISO6935 2/2012 Gr B500BWR	0.22	1.60	0.05	0.05	0.60	-	0.012	0.50	500	1.08YS	14	5	5d	180°	≤16mm - 3d 16-32mm - 6d >32mm - 7d	90°-20°	≤16mm - 5d 16-25mm - 8d >25mm - 10d
SASO SSA 2/1992 High Tensile	0.33	-	0.05	0.05	-	-	0.013	0.54	460	506	12	-	5d	180°	3d	45°	5d
CS2:2012 Gr 500B	0.22	-	0.05	0.05	-	0.80	0.012	0.50	500	1.08YS	-	5	5d	-	-	90°-20°	≤16mm - 4d >16mm - 7d
SLS 375:2009 Gr RB500	0.22	-	0.05	0.05	-	0.80	0.012	0.50	500	1.05YS	14	2.5	5d	180°	3d	90°-20°	≤16mm - 4d >16mm - 7d
IS 1786:2008 Gr Fe415	0.30	-	0.06	0.06	-	-	0.012	0.53	415	1.10YS	14.5	-	$5.65\sqrt{A}$	180°	≤20mm - 3d >20mm - 4d	135°-157.5°	≤10mm - 5d >10mm - 7d
IS 1786:2008 Gr Fe415D	0.25	-	0.045	0.045	-	-	do	do	415	1.12YS	18	5	do	do	≤20mm - 2d >20mm - 3d	do	≤10mm - 4d >10mm - 6d
IS 1786:2008 Gr Fe500	0.30	-	0.055	0.055	-	-	do	do	500	1.08YS	12	-	do	do	≤20mm - 4d >20mm - 5d	do	≤10mm - 5d >10mm - 7d
IS 1786:2008 Gr Fe500D	0.25	-	0.04	0.04	-	-	do	do	500	1.10YS	16	5	do	do	≤20mm - 3d >20mm - 4d	do	≤10mm - 4d >10mm - 6d
DIN 488:2009 Gr 500B	0.22	-	0.05	0.05	-	0.60	0.012	0.50	500	1.08YS	-	5	5d	-	-	90°-20°	≤16mm - 5d 16-28mm - 8d 28-32mm - 10d

Parameters used in above table

YS Yield Strength (N/mm^2)
TS Tensile Strength (N/mm^2)
E Elongation (%, min.)
Agt Total Elongation at Maximum Force (%, min.)
GL Gauge Length (mm)
Angle Bending/Rebending Angle (° Degree)
BD Bending Mandrel Diameter (mm)
RBD Rebending Mandrel Diameter (mm)

Mill Standard Bar Count

12m Length*

Nominal Diameter in mm	Unit Mass kg/m	Nominal Mass kg/pc	Pieces/ Bundle	Weight/ Bundle MT
8	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
40	9.864	118.37	17	2.012

*Rebars can be supplied upto 18m Length
*Plain Round Bars 6m Length only
From 14mm to 40mm dia

Permissible Deviation

from Mass & Length

Standard Grade	Mass		Length	
	Dia. mm	Dev. %	in m	Dev. mm
BS4449:1997 Gr 460B	8 - 10 >8	± 6.5 ± 4.5	6	+40 - 0
BS4449:2005 Gr 500B	≤8 >8	± 6.0 ± 4.5	9, 12, 18	+40 - 0
ASTM A615 Gr 60	10 - 40	- 6.0		
KWS GSO ISO6935 2/2012 Gr B500BWR	≤8 10 + 12 14 + 22 25 + 40	± 8.0 ± 6.0 ± 5.0 ± 4.0		
SASO SSA 2/1992 High Tensile	≤8 12 - 20 22 - 32 >32	± 8.0 ± 6.0 ±5.0 ± 4.0		
CS2:2012 Gr 500B	≤8 >8	± 6.0 ± 4.5		
SLS 375:2009 Gr RB500	≤8 >8	± 6.0 ± 4.5		
IS 1786:2008 Gr 415	≤8 12 - 16 >16	± 7.0 ± 5.0 ± 3.0		
IS 1786:2008 Gr Fe415D				
IS 1786:2008 Gr Fe500				
IS 1786:2008 Gr Fe500D				
DIN 488:2009 Gr 500B	≤8 >8	± 6.0 ± 4.5		

Bar Markings

As per requirement of the specifications, the rebars are marked as follows:

DCL-UK CARES Grade 500B
BS 4449:2005

ASTM A615 Grade 60

3.4 Certifications

Management Systems

Quality Management System
ISO 9001:2008
Certificate No. 1284

Environmental Management System
ISO 14001:2004
Certificate No. 1368

Occupational Health & Safety Management System
OHSAS 18001:2007
Certificate No. 1394

Product Conformity

International

UK Cares
Certificate No.
110701

UAE

Dubai Central Laboratories
Certificate No.
CL11020151

Bahrain

Bahrain Ministry of Works
Certificate No.
MCR 882/2014

Hong Kong

Civil Engineering & Development Dept - Hong Kong
Certificate No. GCST 4/20/9-16

India

Bureau of Indian Standard
Certificate No.
CM/L-4034744

Sri Lanka

Sri Lanka Standard
Certificate No.
1146

Sustainability

International

Sustainable Constructional Steel
Certificate No. 1377

International

UK Cares
Certificate No.
1470

PIPES


CONARES

4.1 Manufacturing Process

Step	Process	Description
1	**Slitting**	Hot Rolled Coil is loaded to a slitting machine. The slit coils are used to form the pipe.
2	**Entry**	Uncoilers unwind the slit coil. Multiple unwound coils are accumulated to maintain a continuous feed.
3	**Forming**	The slit passes through different rolls to form the desired pipe shape & size. The seam is welded to hold its shape.
4	**Annealing**	Annealing is the process of treating the weld to maintain uniform properties of steel across the seam of the pipe. This is carried out on the basis of client's requirement.
5	**Shear Cut**	Cut into commercial lengths & End Faced*
6	**Testing**	The online non destructive testing equipment measures the quality of the weld. Most reject products are recovered by Straightener* If necessary, Hydro Test* is conducted.
7	**Galvanizing**	To preserve steel for a long period, it is galvanized to avoid corrosion. It is dipped into a series of chemicals for surface preparation & is bathed in molten Zinc.
8	**Finishing**	Threaded & Socketed*, Cooled, Painted and Packed as required.

*These processes are order specific.

4.2 Rounds: ASTM

Type Black | Galvanized | Threaded & Coupled **Length** 3m to 12.8m

Size Range

NPS INCH	NPS MM	OD INCH	OD MM	SCH ASTM	SCH ASTM	Thick INCH	Thick MM	Weight LBS/FOOT	Weight KG/METER
1/2	15	0.840	21.3		5	0.065	1.65	0.54	0.8
					10	0.083	2.11	0.67	0.999
					30	0.095	2.41	0.76	1.123
				STD	40	0.109	2.77	0.85	1.266
3/4	20	1.050	26.7		5	0.065	1.65	0.69	1.019
					10	0.083	2.11	0.86	1.28
					30	0.095	2.41	0.97	1.444
				STD	40	0.113	2.87	1.13	1.687
1	25	1.315	33.4		5	0.065	1.65	0.87	1.292
					10	0.109	2.77	1.41	2.093
					30	0.114	2.90	1.46	2.182
				STD	40	0.133	3.38	1.68	2.503
				XS	80	0.179	4.55	2.17	3.238
1 1/4	32	1.660	42.2		5	0.07	1.65	1.11	1.658
					10	0.11	2.77	1.81	2.708
					30	0.12	2.97	1.93	2.888
				STD	40	0.14	3.56	2.27	3.41
				XS	80	0.19	4.85	3.00	4.492
1 1/2	40	1.900	48.3		5	0.065	1.65	1.28	1.899
					10	0.109	2.77	2.09	3.111
					30	0.125	3.18	2.37	3.539
				STD	40	0.145	3.68	2.72	4.05
				XS	80	0.200	5.08	3.63	5.415
2	50	2.375	60.3		5	0.065	1.65	1.61	2.387
						0.083	2.11	2.03	3.028
					10	0.109	2.77	2.64	3.931
					30	0.125	3.18	3.01	4.48
						0.141	3.58	3.37	5.008
				STD	40	0.154	3.91	3.66	5.438
						0.172	4.37	4.05	6.038
						0.188	4.78	4.40	6.546
				XS	80	0.218	5.54	5.03	7.483
2 1/2	65	2.875	73			0.109	2.77	3.22	4.798
					10	0.120	3.05	3.53	5.262
						0.125	3.18	3.67	5.476
						0.141	3.58	4.12	6.13
						0.156	3.96	4.53	6.743
						0.172	4.37	4.97	7.397
					30	0.188	4.78	5.40	8.043
				STD	40	0.203	5.16	5.80	8.634
3	80	3.50	88.9			0.109	2.77	3.95	5.885
					10	0.120	3.05	4.34	6.458
						0.125	3.18	4.51	6.723
						0.141	3.58	5.06	7.534
						0.156	3.96	5.58	8.296
						0.172	4.37	6.12	9.111
					30	0.188	4.78	6.66	9.918
				STD	40	0.216	5.49	7.58	11.294
3 1/2	90	4.00	101.6		10	0.120	3.05	4.98	7.414
						0.125	3.18	5.18	7.719
						0.141	3.58	5.82	8.665
						0.156	3.96	6.41	9.537
						0.172	4.37	7.04	10.48
					30	0.188	4.78	7.66	11.415
				STD	40	0.226	5.74	9.12	13.571
4	100	4.50	114.3		10	0.120	3.05	5.62	8.369
						0.125	3.18	5.85	8.716
4	100	4.50	114.3			0.141	3.58	6.57	9.777
						0.156	3.96	7.24	10.777
						0.172	4.37	7.96	11.849
					30	0.188	4.78	8.67	12.912
						0.203	5.16	9.32	13.890
						0.219	5.56	10.02	14.912
				STD	40	0.237	6.02	10.80	16.078
5	125	5.563	141.3		10	0.134	3.40	7.78	11.564
						0.156	3.96	9.02	13.414
						0.188	4.38	10.8	16.095
						0.219	5.56	12.51	18.615
				STD	40	0.258	6.55	14.63	21.769
6	150	6.625	168.3		10	0.134	3.40	9.30	13.829
						0.140	3.56	9.71	14.465
						0.156	3.96	10.79	16.051
						0.172	4.37	11.87	17.669
						0.188	4.78	12.94	19.279
						0.203	5.16	13.94	20.763
						0.219	5.56	15.00	22.317
						0.250	6.35	17.04	25.365
				STD	40	0.280	7.11	18.99	28.267
						0.312	7.92	21.06	31.329
8	200	8.625	219.1		10	0.148	3.76	13.41	19.970
						0.156	3.96	14.12	21.013
						0.188	4.78	16.96	25.268
						0.203	5.16	18.28	27.228
						0.219	5.56	19.68	29.284
					20	0.250	6.35	22.38	33.321
					30	0.277	7.04	24.72	36.822
						0.312	7.92	27.73	41.253
				STD	40	0.322	8.18	28.58	42.555
						0.344	8.74	30.45	45.347
						0.375	9.52	33.07	49.211
					60	0.406	10.31	35.67	53.094
						0.438	11.13	38.33	57.092
				XS	80	0.500	12.70	43.43	64.653
10	250	10.750	273.0			0.156	3.96	27.65	26.278
					10	0.165	4.19	18.67	27.780
						0.188	4.78	21.23	31.622
						0.203	5.16	22.89	34.088
						0.219	5.56	24.65	36.676
					20	0.250	6.35	28.06	41.763
						0.279	7.09	31.23	46.500
					30	0.307	7.80	34.27	51.020
						0.344	8.74	38.27	56.966
				STD	40	0.365	9.27	40.52	60.300
						0.438	11.13	48.28	71.888
				XS	60	0.500	12.70	54.79	81.537
12	300	12.750	323.8			0.156	3.96	20.99	31.239
						0.172	4.37	23.14	34.430
					10	0.180	4.57	24.18	35.983
						0.188	4.78	25.27	37.612
						0.203	5.16	27.23	40.553
						0.219	5.56	29.34	43.642
					20	0.250	6.35	33.41	49.719
						0.281	7.14	37.46	55.766
						0.312	7.92	41.48	61.705
					30	0.330	8.38	43.81	65.194
						0.344	8.74	45.62	67.917
				STD		0.375	9.53	49.61	73.871
					40	0.406	10.31	53.57	79.718
						0.438	11.13	57.65	85.834
				XS		0.500	12.70	65.48	97.449

Specifications

Spec	Grade	Chemical (% max) C	Mn	P	S	Cu	Mechanical YS	TS	E %	Tolerance OD	Thick %	Weight %
A53	A	0.25	0.95	0.050	0.045	0.40	205	330	As Per Spec	≤1 1/2" ±0.4 mm	−12.5	±10
A53	B	0.30	1.20	0.050	0.045	0.40	240	415	As Per Spec	>1 1/2" ±1%		
A795	A	0.25	0.95	0.035	0.035		NA	NA	NA	≤1 1/2" ±0.4 mm	−12.5	±5
A795	B	0.30	1.20	0.035	0.035		NA	NA	NA	>1 1/2" ±1%		
A500	A	0.30	1.40	0.045	0.045	0.18	230	310	25			
A500	B	0.30	1.40	0.045	0.045	0.18	290	400	23	≤1 1/2" ±0.50%	±10	±10
A500	C	0.27	1.40	0.045	0.045	0.18	315	425	21	≥2" ±0.75%		
A500	D	0.30	1.40	0.045	0.045	0.18	250	400	23			

Type Black | Galvanized | Threaded & Coupled **Length** 3m to 12.8m

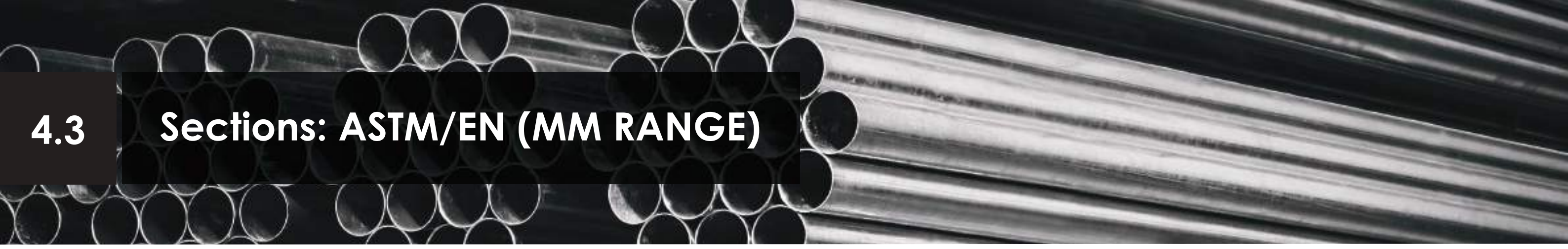
Size Range

NPS INCH	NPS MM	OD INCH	OD MM	Series TYPE	Series SPEC	Thick MM	Weight (kg/m) BLACK PLAIN	BLACK TC	GALVANIZED PLAIN	GALVANIZED TC
1/2	15	0.840	21.3	L1	10255	2.30	1.078	1.089	1.126	1.137
				L2	10255	2.00	0.952	0.963	1.001	1.012
				M	10255	2.60	1.199	1.210	1.246	1.257
				H	10255	3.20	1.429	1.440	1.474	1.485
					10219	2.00	0.952		1.001	
					10219	2.50	1.159		1.206	
					10219	3.00	1.354		1.400	
3/4	20	1.050	26.9	L1	10255	2.30	1.396	1.410	1.457	1.471
				L2	10255	2.30	1.396	1.410	1.457	1.471
				M	10255	2.60	1.558	1.572	1.619	1.633
				H	10255	3.20	1.871	1.885	1.930	1.944
					10219	2.00	1.228		1.291	
					10219	2.50	1.505		1.566	
					10219	3.00	1.768		1.829	
1	25	1.315	33.7	L1	10255	2.90	2.203	2.224	2.280	2.301
				L2	10255	2.60	1.994	2.015	2.073	2.094
				M	10255	3.20	2.407	2.428	2.484	2.505
				H	10255	4.00	2.930	2.951	3.005	3.026
					10219	2.00	1.564		1.643	
					10219	2.50	1.924		2.002	
					10219	3.00	2.272		2.349	
1 1/4	32	1.66	42.4	L1	10255	2.90	2.825	2.858	2.925	2.958
				L2	10255	2.60	2.552	2.585	2.652	2.685
				M	10255	3.20	3.094	3.127	3.192	3.225
				H	10255	4.00	3.788	3.821	3.885	3.918
					10219	2.00	1.993		2.094	
					10219	2.50	2.460		2.561	
					10219	3.00	2.915		3.014	
					10219	4.00	3.788		3.885	
1 1/2	40	1.90	48.3	L1	10255	2.90	3.247	3.291	3.361	3.405
				L2	10255	2.90	3.247	3.291	3.361	3.405
				M	10255	3.20	3.560	3.604	3.673	3.717
				H	10255	4.00	4.371	4.415	4.482	4.526
					10219	2.00	2.284		2.400	
					10219	2.50	2.824		2.939	
					10219	3.00	3.352		3.466	
					10219	4.00	4.371		4.482	
				Type 3	EN 39	3.20	3.560		3.673	
				Type 4	EN 39	4.00	4.371		4.482	
2	50	2.375	60.3	L1	10255	3.20	4.507	4.572	4.650	4.715
				L2	10255	2.90	4.106	4.171	4.250	4.315
				M	10255	3.60	5.035	5.100	5.177	5.242
				H	10255	4.50	6.193	6.258	6.334	6.399
				--	10219	2.00	2.876		3.022	
				--	10219	2.50	3.564		3.709	
				--	10219	3.00	4.240		4.384	
				--	10219	4.00	5.554		5.696	
				--	10219	5.00	6.820		6.959	
2 1/2	65	3.00	76.1	L1	10255	3.20	5.754	5.851	5.937	6.035
				L2	10255	2.90	5.754	5.851	5.937	6.035
				M	10255	3.60	6.437	6.534	6.620	6.718
				H	10255	4.50	7.947	8.044	8.127	8.225
				--	10219	2.50	4.538		4.723	
				--	10219	3.00	5.409		5.593	
				--	10219	4.00	7.113		7.295	
				--	10219	5.00	8.768		8.947	
3	80	3.50	88.9	L1	10255	3.60	7.574	7.716	7.788	7.932
				L2	10255	3.20	6.764	6.906	6.979	7.123
				M	10255	4.00	8.376	8.518	8.590	8.734
				H	10255	5.00	10.347	10.489	10.558	10.702
					10219	2.50	5.328		5.545	
					10219	3.00	6.356		6.572	
					10219	4.00	8.376		8.590	
					10219	5.00	10.347		10.558	

NPS INCH	NPS MM	OD INCH	OD MM	Series TYPE	Series SPEC	Thick MM	Weight (kg/m) BLACK PLAIN	BLACK TC	GALVANIZED PLAIN	GALVANIZED TC
3 1/2	90	4.0	101.6			2.80	6.823		7.072	
					10219	3.00	7.296		7.544	
					10219	4.00	9.629		9.874	
					10219	5.00	11.913		12.156	
4	100	4.50	114.3	L1	10255	4.00	10.882	11.109	11.159	11.388
				L2	10255	3.60	9.829	10.056	10.108	10.337
				M	10255	4.50	12.187	12.414	12.463	12.692
				H	10255	5.40	14.504	14.731	14.778	15.007
					10219	3.00	8.236		8.515	
					10219	4.00	10.882		11.159	
					10219	5.00	13.479		13.754	
					10219	6.00	16.027		16.299	
5	125	5.50	139.7	M	10255	5.00	16.612	16.963	16.950	17.305
				H	10255	5.40	17.887	18.238	18.225	18.580
					10219	4.00	13.388		13.729	
					10219	5.00	16.612		16.950	
					10219	6.00	19.786		20.122	
6	150	6.50	165.1	M	10255	5.00	19.744	20.213	20.147	20.620
				H	10255	5.40	21.270	21.739	21.672	22.145
6	150	6.625	168.3		10219	4.00	16.210		16.623	
					10219	5.00	20.139		20.549	
					10219	6.00	24.018		24.426	
					10219	6.30	25.173		25.580	
					10219	8.00	31.630		32.033	
-	-	7.0	177.8		10219	4.00	17.147		17.584	
					10219	5.00	21.310		21.745	
					10219	6.00	25.424		25.856	
					10219	6.30	26.649		27.080	
					10219	8.00	33.505		33.931	
7	175	7.625	193.7		10219	4.00	18.716		19.192	
					10219	5.00	23.271		23.745	
					10219	6.00	27.777		28.249	
					10219	6.30	29.120		29.591	
					10219	8.00	36.642		37.109	
8	200	8.625	219.1		10219	4.00	21.222		21.762	
					10219	5.00	26.404		26.942	
					10219	6.00	31.536		32.072	
					10219	6.30	33.066		33.601	
					10219	8.00	41.654		42.184	
					10219	10.00	51.574		52.099	
					10219	12.00	61.297		61.817	
					10219	12.50	63.697		64.216	
9	225	9.625	244.5		10219	5.00	29.536			
					10219	6.00	35.295			
					10219	6.30	37.013			
					10219	8.00	46.666			
					10219	10.00	57.839			
					10219	12.00	68.815			
					10219	12.50	71.528			
10	250	10.75	273.0		10219	5.00	33.051			
					10219	6.00	39.513			
					10219	6.30	41.442			
					10219	8.00	52.289			
					10219	10.00	64.868			
					10219	12.00	77.250			
					10219	12.50	80.314			
12	300	12.75	323.9		10219	5.00	39.328			
					10219	6.00	47.045			
					10219	6.30	49.351			
					10219	8.00	62.333			
					10219	10.00	77.422			
					10219	12.00	92.315			
					10219	12.50	96.007			

Specifications

Spec	Grade	Chemical (% max) C	Mn	S	P	Si	Al	N	Ceq	Mechanical YS	TS	E%	Tolerance OD	Thick	Weight %
EN 10219	S235	0.17	1.40	0.04	0.04				0.35	235	360-510	24	± 1%	T≤ 5mm ± 10%	
EN 10219	S275	0.20	0.50-1.50	0.03	0.03	0.40	0.35	0.01	0.40	275	370-560	20 - 24	Min ±0.5mm	T> 5mm ±0.5mm	±6
EN 10219	S355	0.18-0.22	0.90-1.65	0.03	0.03	0.55	0.35	0.01	0.45	355	470-630	20 - 22	Max ± 1.0mm		
EN 10255	All Series	0.20	1.40	0.03	0.03					195	320-520	20	As Per Spec	As Per Spec	As Per Spec
EN 39	Type 3/4	0.20	1.40	0.04	0.03	0.04				235	340-520	24	±0.5 mm	± 10%	+ 10, -7.5



4.3 Sections: ASTM/EN (MM RANGE)

Type Black | Galvanized **Length** 3m to 12.8m

Square

OD	Series	Thick	Weight
MM	SPEC	MM	KG/ METER
19X19	A500	1.20	0.642
	A500	1.50	0.779
	A500	1.80	0.907
	A500	2.00	0.987
25X25	A500	1.20	0.868
	A500	1.50	1.061
	A500	1.60	1.124
	A500	1.80	1.246
	A500	2.60	1.692
	A500/EN 10219	2.00	1.364
	A500/EN 10219	2.50	1.640
	A500/EN 10219	3.00	1.891
30X30	A500	1.20	1.056
	A500	1.50	1.297
	A500	1.80	1.528
	A500	2.60	2.100
	A500/EN 10219	2.00	1.678
	A500/EN 10219	2.50	2.032
	A500/EN 10219	3.00	2.362
38X38	A500	1.20	1.358
	A500	1.50	1.674
	A500	1.80	1.981
	A500	2.00	2.180
	A500	2.60	2.753
	A500	3.00	3.115
	A500	3.80	3.789
	A500	4.00	3.947
40X40	A500	1.20	1.433
	A500	1.50	1.768
	A500	1.80	2.094
	A500	2.80	3.112
	A500/EN 10219	2.00	2.306
	A500/EN 10219	2.50	2.817
	A500/EN 10219	3.00	3.304
50X50	A500	1.50	2.239
	A500	1.80	2.659
	A500	2.60	3.733
	A500/EN 10219	2.00	2.934
	A500/EN 10219	2.50	3.602
	A500/EN 10219	3.00	4.246
	A500/EN 10219	4.00	5.454
	A500/EN 10219	5.00	6.560
60X60	A500	2.00	3.562
	A500	2.60	4.550
	A500	2.80	4.871
	A500	3.50	5.962
	A500	3.80	6.414
	A500	4.80	7.854
	A500/EN 10219	2.00	3.562
	A500/EN 10219	2.50	4.387
	A500/EN 10219	3.00	5.188
	A500/EN 10219	4.00	6.710
	A500/EN 10219	5.00	8.130
75X75	A500/EN 10219	2.00	4.504
	A500/EN 10219	2.60	5.774
	A500/EN 10219	2.80	6.189
	A500/EN 10219	3.00	6.601
	A500/EN 10219	3.50	7.610
	A500/EN 10219	3.80	8.204
	A500/EN 10219	4.00	8.594
	A500/EN 10219	4.80	10.115
	A500/EN 10219	5.00	10.485
	A500/EN 10219	5.50	11.391
80X80	A500	2.60	6.182
	A500	2.80	6.629
	A500	3.80	8.800
	A500	4.80	10.869
	A500	5.50	12.255
	A500/EN 10219	3.00	7.072
	A500/EN 10219	4.00	9.222
	A500/EN 10219	5.00	11.270
90X90	A500	2.60	6.999
	A500	2.80	7.508
	A500	3.80	9.994
	A500	4.80	12.376
	A500	5.50	13.982
	A500/EN 10219	3.00	8.014
	A500/EN 10219	4.00	10.478
	A500/EN 10219	5.00	12.840
100X100	A500	2.60	7.815
	A500	2.80	8.387
	A500	3.80	11.187
	A500	4.80	13.883
	A500	5.50	15.709
	A500/EN 10219	3.00	8.956
	A500/EN 10219	4.00	11.734
	A500/EN 10219	5.00	14.410
	A500/EN 10219	6.00	16.892
120X120	A500/EN 10219	3.00	10.840
	A500/EN 10219	4.00	14.246
	A500/EN 10219	5.00	17.550
	A500/EN 10219	6.00	20.750
	A500/EN 10219	6.30	21.690
	A500	3.50	12.556
	A500	4.00	14.246
	A500	5.00	17.550
	A500	5.50	19.163
	A500	6.00	20.750
125X125	A500/EN 10219	3.50	13.105
	A500/EN 10219	4.00	14.874
	A500/EN 10219	4.50	16.617
	A500/EN 10219	5.00	18.335
	A500/EN 10219	5.50	20.026
	A500/EN 10219	6.00	21.692
	A500/EN 10219	6.30	22.679
	A500/EN 10219	8.00	28.097
150X150	A500/EN 10219	4.00	18.014
	A500/EN 10219	5.00	22.260
	A500/EN 10219	6.00	26.402
	A500/EN 10219	6.30	27.625
	A500/EN 10219	8.00	34.377
175X175	A500	4.00	21.154
	A500	5.00	26.185
	A500	6.00	31.112
	A500	6.30	32.570
	A500	8.00	40.657
	A500	10.00	49.789
	A500	12.00	58.509
	A500	12.50	60.624
200X200	A500	4.50	27.215
	A500/EN 10219	5.00	30.110
	A500/EN 10219	6.00	35.822
	A500/EN 10219	6.30	37.516
	A500/EN 10219	8.00	46.937
	A500/EN 10219	10.00	57.639
	A500/EN 10219	12.00	67.929
	A500/EN 10219	12.50	70.437
250X250	A500/EN 10219	6.00	45.242
	A500/EN 10219	6.30	47.407
	A500/EN 10219	8.00	59.497
	A500/EN 10219	10.00	73.339
	A500/EN 10219	12.00	86.769
	A500/EN 10219	12.50	90.062

Rectangle

OD	Series	Thick	Weight
MM	SPEC	MM	KG/ METER
40X20	A500	1.20	1.056
	A500	1.50	1.297
	A500	1.80	1.528
	A500/EN10219	2.00	2.1
	A500/EN10219	2.50	1.678
	A500	2.60	2.032
	A500/EN10219	3.00	2.362
50X25	A500	1.20	1.339
	A500	1.50	1.65
	A500	1.80	1.952
	A500	2.00	2.149
	A500	2.60	2.713
	A500	2.80	2.892
	A500	3.00	3.068
60X30	A500	1.20	1.621
	A500	1.50	2.003
	A500	1.80	2.376
	A500	2.00	2.620
	A500	2.50	3.210
	A500	2.60	3.325
	A500	2.80	3.552
	A500	3.00	3.775
60X40	A500	1.50	2.239
	A500	1.80	2.659
	A500	2.60	3.733
	A500/EN 10219	2.00	2.934
	A500/EN 10219	2.50	3.602
	A500/EN 10219	3.00	4.246
	A500/EN 10219	4.00	5.454
	A500/EN 10219	5.00	6.56
80X40	A500	2.00	3.562
	A500	2.60	4.550
	A500	2.80	4.871
	A500	3.50	5.962
	A500	3.80	6.414
	A500	4.80	7.854
	A500/EN 10219	2.00	3.562
	A500/EN 10219	2.50	4.387
	A500/EN 10219	3.00	5.188
	A500/EN 10219	4.00	6.71
	A500/EN 10219	5.00	8.13
100X50	A500/EN 10219	2.00	4.504
	A500/EN 10219	2.60	5.774
	A500/EN 10219	2.80	6.189
	A500/EN 10219	3.00	6.601
	A500/EN 10219	3.50	7.610
	A500/EN 10219	3.80	8.204
	A500/EN 10219	4.00	8.594
	A500/EN 10219	4.80	10.115
	A500/EN 10219	5.00	10.485
	A500/EN 10219	5.50	11.391
120X60	A500	2.60	6.999
	A500	2.80	7.508
	A500	3.80	9.994
	A500	4.80	12.376
	A500	5.50	13.982
	A500/EN 10219	3.00	8.014
	A500/EN 10219	4.00	10.478
	A500/EN 10219	5.00	12.84
100X75	A500	2.60	6.795
	A500	2.80	7.288
	A500	3.00	7.778
	A500	3.80	9.695
	A500	4.00	10.164
	A500	4.80	11.999
	A500	5.00	12.447
	A500	5.50	13.550
125X75	A500	2.60	7.815
	A500	2.80	8.387
	A500	3.80	11.187
	A500	4.80	13.883
	A500	5.50	15.709
	A500/EN 10219	3.00	8.956
	A500/EN 10219	4.00	11.734
	A500/EN 10219	5.00	14.41
	A500/EN 10219	6.00	16.982
150X75	A500	3.50	11.732
	A500	4.00	13.304
	A500	5.00	16.372
	A500	5.50	17.868
	A500	6.00	19.337
(150X100)	A500/EN 10219	3.50	13.105
	A500/EN 10219	4.00	14.874
	A500/EN 10219	4.50	16.617
	A500/EN 10219	5.00	18.335
	A500/EN 10219	5.50	20.026
	A500/EN 10219	6.00	21.692
	A500/EN 10219	6.30	22.679
	A500/EN 10219	8.00	28.097
200X100	A500/EN 10219	4.00	18.014
	A500/EN 10219	5.00	22.26
	A500/EN 10219	6.00	26.402
	A500/EN 10219	6.30	27.625
	A500/EN 10219	8.00	34.377
200X150	A500	4.00	21.154
	A500	5.00	26.185
	A500	6.00	31.112
	A500	6.30	32.570
	A500	8.00	40.657
	A500	10.00	49.789
	A500	12.00	58.509
	A500	12.50	60.624
250X100	A500	4.00	21.154
	A500	5.00	26.185
	A500	6.00	31.112
	A500	6.30	32.570
	A500	8.00	40.657
	A500	10.00	49.789
	A500	12.00	58.509
	A500	12.50	60.624
250X150	A500	4.50	27.215
	A500/EN 10219	5.00	30.11
	A500/EN 10219	6.00	35.822
	A500/EN 10219	6.30	37.516
	A500/EN 10219	8.00	46.937
	A500/EN 10219	10.00	57.639
	A500/EN 10219	12.00	67.929
	A500/EN 10219	12.50	70.437
300X200	A500/EN 10219	6.00	45.242
	A500/EN 10219	6.30	47.407
	A500/EN 10219	8.00	59.497
	A500/EN 10219	10.00	73.339
	A500/EN 10219	12.00	86.769
	A500/EN 10219	12.50	90.062

4.3 Sections: ASTM/EN (INCH RANGE)

Type Black | Galvanized **Length** 3m to 12.8m

Square

OD	Series	Thick	Weight
INCH	SPEC	INCH	KG/FT
1"X1"	A500	0.047	0.268
	A500	0.059	0.329
	A500	0.078	0.420
	A500	0.095	0.495
	A500	0.120	0.595
1¼"X1¼"	A500	0.047	0.340
	A500	0.059	0.420
	A500	0.078	0.540
	A500	0.095	0.642
	A500	0.120	0.780
1½"X1½"	A500	0.059	0.511
	A500	0.078	0.661
	A500	0.095	0.789
	A500	0.120	0.966
2"X2"	A500	0.059	0.693
	A500	0.078	0.902
	A500	0.095	1.082
	A500	0.120	1.336
	A500	0.180	1.895
	A500	0.188	1.963
2½"X2½"	A500	0.078	1.143
	A500	0.095	1.375
	A500	0.120	1.707
	A500	0.180	2.450
	A500	0.188	2.544
3"X3"	A500	0.078	1.383
	A500	0.095	1.669
	A500	0.120	2.077
	A500	0.180	3.006
	A500	0.188	3.125
	A500	0.197	3.256
3½"X3½"	A500	0.120	2.448
	A500	0.180	3.562
	A500	0.188	3.705
	A500	0.197	3.865
	A500	0.203	3.970
	A500	0.220	4.264
4"X4"	A500	0.120	2.818
	A500	0.180	4.118
	A500	0.188	4.286
	A500	0.197	4.473
	A500	0.203	4.597
	A500	0.220	4.944
5"X5"	A500	0.120	3.560
	A500	0.180	5.230
	A500	0.188	5.447
	A500	0.197	5.690
	A500	0.203	5.851
	A500	0.220	6.303
	A500	0.250	7.086
6"X6"	A500	0.180	6.341
	A500	0.188	6.608
	A500	0.197	6.906
	A500	0.203	7.104
	A500	0.220	7.661
	A500	0.250	8.630
	A500	0.313	10.605
7"X7"	A500	0.148	6.176
	A500	0.180	7.453
	A500	0.188	7.769
	A500	0.197	8.123
	A500	0.203	8.358
	A500	0.220	9.020
	A500	0.250	10.174
	A500	0.313	12.538
	A500	0.375	14.785
	A500	0.500	19.079
8"X8"	A500	0.188	8.930
	A500	0.197	9.340
	A500	0.203	9.612
	A500	0.220	10.379
	A500	0.250	11.718
	A500	0.313	14.471
	A500	0.375	17.101
	A500	0.500	22.167
10"X10"	A500	0.250	14.806
	A500	0.313	18.337
	A500	0.375	21.733
	A500	0.500	28.343

Rectangle

OD	Series	Thick	Weight
INCH	SPEC	INCH	KG/FT
2"X1"	A500	0.059	0.511
	A500	0.078	0.661
	A500	0.095	0.789
	A500	0.120	0.966
3"X2"	A500	0.078	1.143
	A500	0.095	1.375
	A500	0.120	1.707
	A500	0.180	2.450
	A500	0.188	2.544
4"X2"	A500	0.078	1.383
	A500	0.095	1.669
	A500	0.120	2.077
	A500	0.180	3.006
	A500	0.188	3.125
	A500	0.197	3.256
4"X3"	A500	0.120	2.448
	A500	0.180	3.562
	A500	0.188	3.705
	A500	0.197	3.865
	A500	0.203	3.970
	A500	0.220	4.264
5"X2"	A500	0.120	2.448
	A500	0.180	3.562
	A500	0.188	3.705
	A500	0.197	3.865
	A500	0.203	3.970
	A500	0.220	4.264
5"X3"	A500	0.120	2.818
	A500	0.180	4.118
	A500	0.188	4.286
	A500	0.197	4.473
	A500	0.203	4.597
	A500	0.220	4.944
6"X2"	A500	0.120	2.818
	A500	0.180	4.118
	A500	0.188	4.286
	A500	0.197	4.473
	A500	0.203	4.597
	A500	0.220	4.944
6"X3"	A500	0.120	3.189
	A500	0.180	4.674
	A500	0.188	4.866
	A500	0.197	5.081
	A500	0.203	5.224
	A500	0.220	5.623
6"X4"	A500	0.120	3.560
	A500	0.180	5.230
	A500	0.188	5.447
	A500	0.197	5.690
	A500	0.203	5.851
	A500	0.220	6.303
	A500	0.250	7.086
8"X4"	A500	0.180	6.341
	A500	0.188	6.608
	A500	0.197	6.906
	A500	0.203	7.104
	A500	0.220	7.661
	A500	0.250	8.630
	A500	0.313	10.698
8"X6"	A500	0.148	6.176
	A500	0.180	7.453
	A500	0.188	7.769
	A500	0.197	8.123
	A500	0.203	8.358
	A500	0.220	9.020
	A500	0.250	10.174
	A500	0.313	12.538
	A500	0.375	14.785
	A500	0.500	19.079
10"X4"	A500	0.148	6.176
	A500	0.180	7.453
	A500	0.188	7.769
	A500	0.197	8.123
	A500	0.203	8.358
	A500	0.220	9.020
	A500	0.250	10.174
	A500	0.313	12.538
	A500	0.375	14.785
	A500	0.500	19.079
10"X6"	A500	0.188	8.930
	A500	0.197	9.340
	A500	0.203	9.612
	A500	0.220	10.379
	A500	0.250	11.718
	A500	0.313	14.471
	A500	0.375	17.101
	A500	0.500	22.167
12"X4"	A500	0.188	8.930
	A500	0.197	9.340
	A500	0.203	9.612
	A500	0.220	10.379
	A500	0.250	11.718
	A500	0.313	14.471
	A500	0.375	17.101
	A500	0.500	22.167
12"X8"	A500	0.250	14.806
	A500	0.313	18.337
	A500	0.375	21.733
	A500	0.500	28.343

Specifications

Spec	Grade	Chemical (% max)								Mechanical			Tolerance		
		C	Mn	S	P	Si	Al (min)	N	Cev	YS	TS	E%	OD	Thick	Weight %
A500	A	0.30	1.40	0.045	0.045					270	310	25%	As Per Spec	±10%	±10%
A500	B	0.30	1.40	0.045	0.045					315	400	23%			
A500	C	0.27	1.40	0.045	0.045					345	425	21%			
A500	D	0.30	1.40	0.045	0.045					250	400	23%			
EN 10219	S235	0.17	1.40	0.04	0.040			0.009	0.35	235	360-510	24%	As Per Spec	T< 5mm ±10%, T> 5mm ±0.5mm	± 6% mass on indivisual length
EN 10219	S275	0.20	1.50	0.035	0.035		0.02	0.009	0.40	275	410-580	20%			
EN 10219	S355	0.22	1.60	0.030	0.030	0.55	0.05		0.45	355	470-630	20%			

4.4 Certifications

Management Systems

International

Quality
Management System
ISO 9001:2008
Certificate No. 5352

Product Conformity

International

UL Mark
Certificate No. VIZY. EX15394

International

CE Mark
Certificate No.1452-2012-CE-IND

International

5db
Certificate No. HK-W-0456-01-2016

UAE Ministry of Interior
DCD General Directorate

CONARES

T: +9714 883 5111 | F: +9714 883 6611 | P.O. Box 2854, Dubai, U.A.E. | www.conares.com