

CONARES



صنع في الإمارات
MADE IN UAE



LET'S
STEEL
TOGETHER





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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.



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

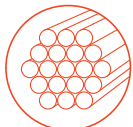
From its central location in Dubai, UAE; Conares serves an extensive network of clientele including pre-engineering companies, steel trading companies and construction majors not in the Middle East but across wider markets that are easily accessed from its headquarters.

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 drove Conares to enhance its size range to 12" & increasing its Pipe production by 200,000 MT per year as of end 2018.



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.

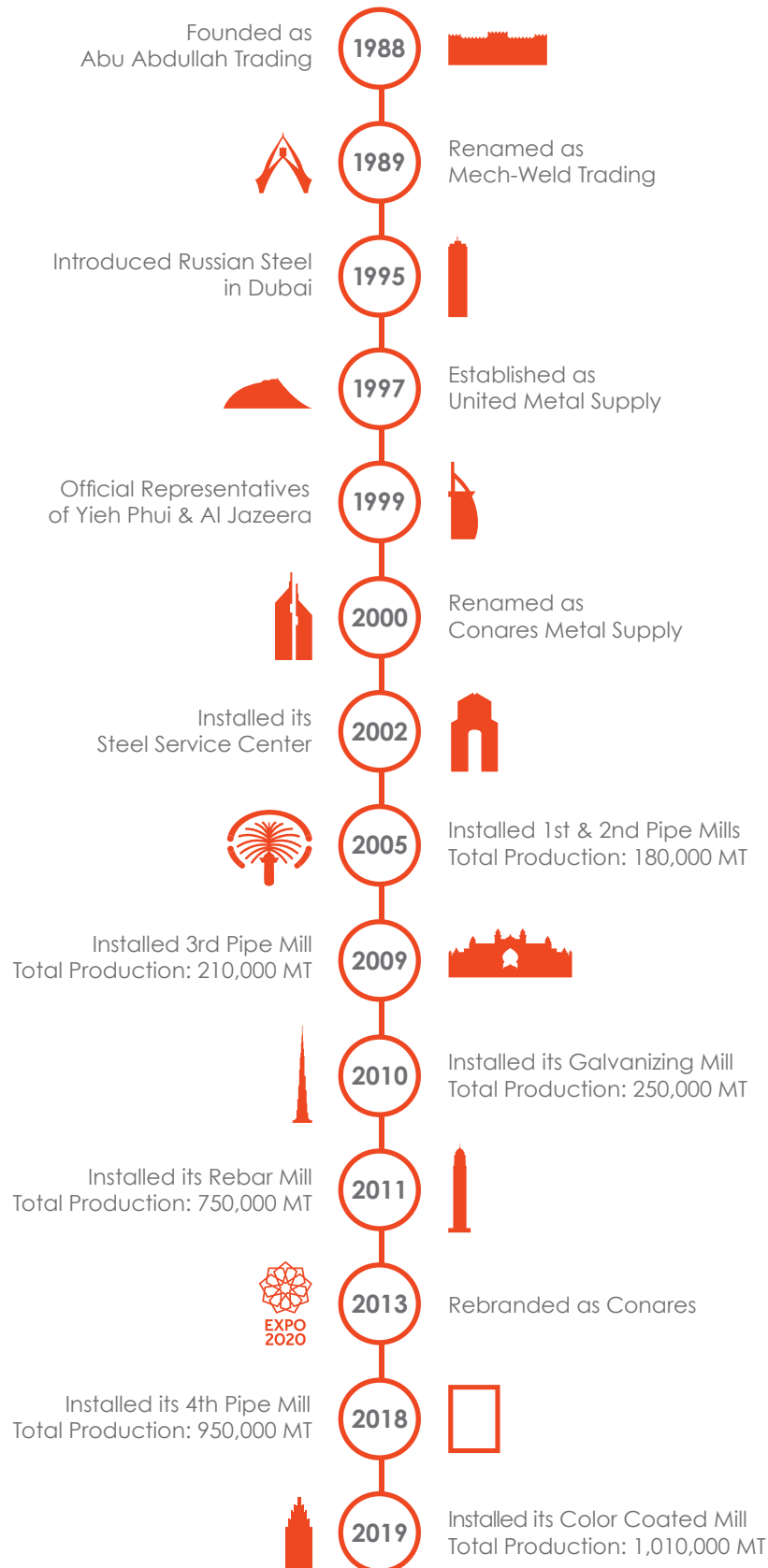


Color Coated

Color Coated

In 2019, Conares will commence the project of its Color Coated Mill which has an annual production capacity of 60,000 MT. Color Coated products have numerous applications like roofing & decoration, heavily consumed by the construction industry.

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





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	Agf	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√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/mm²)
 TS Tensile Strength (N/mm²)
 E Elongation (% min.)
 Agf 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

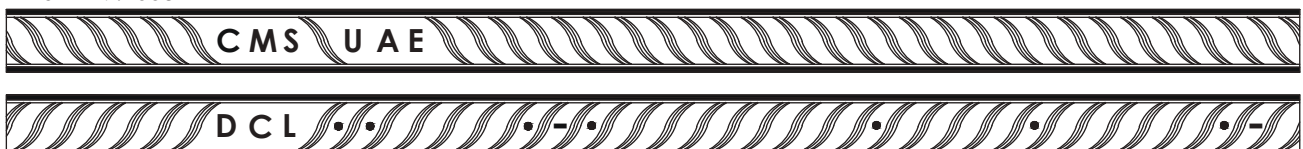
Standard Grade	Mass		Length	
	Dia. mm	Dev. %	in m	Dev. mm
BS4449:1997 Gr 460B	8 - 10	± 6.5	6	+40 - 0
BS4449:2005 Gr 500B	>8	± 4.5	9, 12, 18	+40 - 0
	≤8	± 6.0		
	>8	± 4.5		
ASTM A615 Gr 60	10 - 40	- 6.0		
KWS GSO ISO6935 2/2012 Gr B500BWR	≤8	± 8.0		
	10 + 12	± 6.0		
SASO SSA 2/1992 High Tensile	14 + 22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



Management Systems



Quality Management System
ISO 9001:2015
Certificate No. 1284



Environmental Management System
ISO 14001:2015
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

Kuwait



Quality Mark - State of Kuwait
ISO 6935 - 2/2012
Certificate No. 201

Sustainability

International



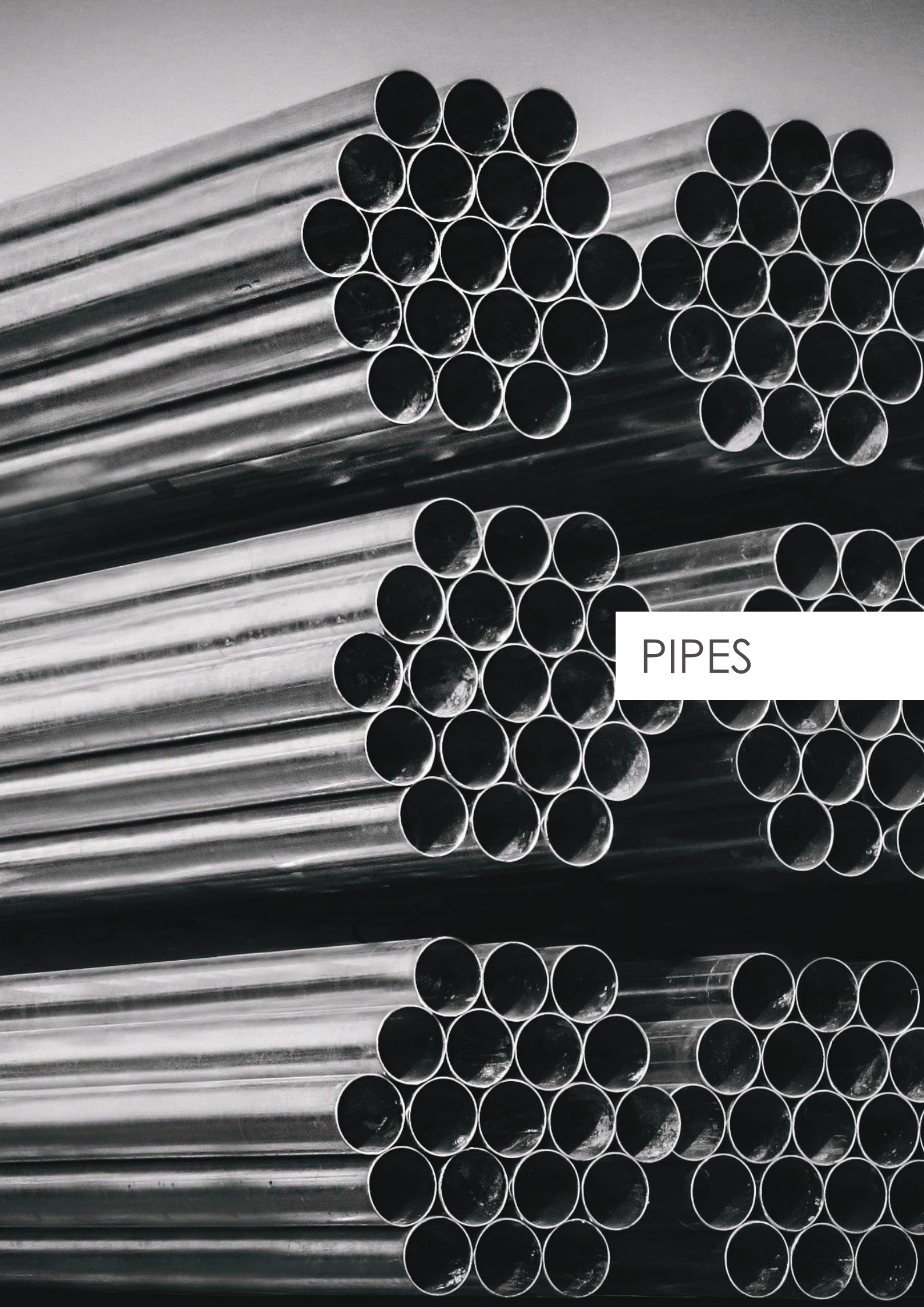
Sustainable Constructional Steel
Certificate No. 1377



BRE BES 6001 Issue 3.0
Certificate No. 1470



Environment Product Declaration
EN 15804:2012+A1:2013
BREG EN EPD No. 000180 Issue 2



PIPES



CONARES

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: EN

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

Size Range

NPS	OD	Series		Thick	Weight (kg/m)			
		TYPE	SPEC		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	
			10217	1.80	0.866	1.210	0.915	1.257
			10217	2.00	0.952	1.440	1.001	1.485
			10217	2.30	1.078		1.126	
			10217	2.60	1.199		1.246	
			10217	2.90	1.316		1.362	
			10217	3.20	1.429		1.475	
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	
			10217	1.80	1.114		1.177	
			10217	2.00	1.228		1.291	
			10217	2.30	1.396		1.458	
			10217	2.60	1.558		1.619	
			10217	2.90	1.717		1.777	
			10217	3.20	1.871		1.931	
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	
			10217	1.80	1.416		1.496	
			10217	2.00	1.564		1.644	
			10217	2.30	1.781		1.860	
			10217	2.60	1.994		2.072	
			10217	2.90	2.203		2.280	
			10217	3.20	2.407		2.484	
			10217	3.60	2.673		2.749	
			10217	4.00	2.93		3.005	
			10217	4.50	3.241		3.314	
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	
			10217	1.80	1.802		1.904	
			10217	2.00	1.993		2.095	
			10217	2.30	2.275		2.376	
			10217	2.60	2.552		2.652	
			10217	2.90	2.825		2.924	
			10217	3.20	3.094		3.193	
			10217	3.60	3.445		3.543	
			10217	4.00	3.788		3.884	
			10217	4.50	4.207		4.302	
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	
			10217	1.80	2.064		2.181	
			10217	2.00	2.284		2.400	
			10217	2.30	2.61		2.726	
			10217	2.60	2.931		3.046	
			10217	2.90	3.247		3.361	
			10217	3.20	3.56		3.673	
			10217	3.60	3.969		4.081	
			10217	4.00	4.371		4.482	
			10217	4.50	4.861		4.982	

NPS	OD	Series		Thick	Weight (kg/m)			
		TYPE	SPEC		BLACK PLAIN	BLACK TC	GALVANIZED PLAIN	GALVANIZED TC
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	
			10217	1.80	2.597		2.744	
			10217	2.00	2.876		3.023	
			10217	2.30	3.29		3.436	
			10217	2.60	3.7		3.845	
			10217	2.90	4.106		4.250	
			10217	3.20	4.507		4.651	
			10217	3.60	5.035		5.178	
			10217	4.00	5.554		5.695	
			10217	4.50	6.193		6.333	
			10217	5.00	6.82		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	
			10217	2.30	4.187		4.373	
			10217	2.60	4.713		4.898	
			10217	2.90	5.236		5.420	
			10217	3.20	5.754		5.937	
			10217	3.60	6.437		6.619	
			10217	4.00	7.113		7.294	
			10217	4.50	7.947		8.127	
			10217	5.00	8.768		8.947	
			10217	5.40	9.416		9.594	
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	
			10217	2.60	5.534		5.751	
			10217	2.90	6.151		6.367	
			10217	3.20	6.764		6.979	
			10217	3.60	7.574		7.788	
			10217	4.00	8.376		8.589	
			10217	4.50	9.368		9.580	

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

Size Range

NPS	OD	Series		Thick	Weight (kg/m)			
		TYPE	SPEC		BLACK PLAIN	BLACK TC	GALVANIZED PLAIN	GALVANIZED TC
6	6.50	M	10255	5.00	19.744	20.213	20.147	20.620
150	165.1	H	10255	5.40	21.270	21.739	21.672	22.145
6	6.625		10219	4.00	16.210		16.623	
150	168.3		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	
			10217	4.00	16.12			
			10217	4.50	18.18			
			10217	5.00	20.139			
			10217	5.40	21.697			
			10217	5.60	22.473			
			10217	6.30	25.173			
			10217	7.10	28.229			
			10217	8.00	31.63			
8	8.625		10219	4.00	21.222		21.762	
200	219.1		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	

NPS	OD	Series		Thick	Weight (kg/m)			
		TYPE	SPEC		BLACK PLAIN	BLACK TC	GALVANIZED PLAIN	GALVANIZED TC
10	10.75		10219	5.00	33.051			
250	273.0		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	12.75		10219	5.00	39.328			
300	323.9		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)								Mechanical			Tolerance		
		C	Mn	P	S	Si	Al	N	Cev	YS	TS	E%	OD	Thick	Weight %
EN 10219	S235	0.17	1.40	0.040	0.04				0.35	235	360-510	24	± 1%	T≤5mm ± 10%	
EN 10219	S275	0.20	0.50-1.50	0.030	0.03	0.40	0.02	0.01	0.40	275	410-560	20 - 24	Min ± 0.5mm	T>5mm ± 0.5mm	± 6
EN 10219	S355	0.18-0.22	0.90-1.65	0.030	0.03	0.55	0.02	0.01	0.45	355	470-630	20 - 22	Max ± 1.0mm		
EN 10255	All Series	0.20	1.40	0.035	0.030					195	320-520	20	As Per Spec	As Per Spec	As Per Spec
EN 39	Type 3/4	0.20	1.40	0.040	0.035	0.04		0.02		235	340-520	24	± 0.5 mm	± 10%	+ 10, -7.5
EN 10217	P195TR1	0.13	0.7	0.025	0.02	0.35				195	320-340	20	± 1%	± 1%	
EN 10217	P235TR1	0.16	1.2	0.025	0.02	0.35				235	360-500	20	or ± 0.5 mm	± 10% or 0.3 mm	As per EN 10220
EN 10217	P265TR1	0.20	1.4	0.025	0.02	0.4				265	410-570	20	whichever is greater	whichever is greater	

4.2

Rounds: ASTM

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

Size Range

NPS	OD	SCH	Thick		Weight	
INCH MM	INCH MM	ASTM	INCH	MM	LBS/ FOOT	KG/ METER
1/2 15	0.840 21.3	STD	5	0.065	1.65	0.54
			10	0.083	2.11	0.67
			30	0.095	2.41	0.76
			40	0.109	2.77	0.85
3/4 20	1.050 26.7	STD	5	0.065	1.65	0.69
			10	0.083	2.11	0.86
			30	0.095	2.41	0.97
			40	0.113	2.87	1.13
1 25	1.315 33.4	STD	5	0.065	1.65	0.87
			10	0.109	2.77	1.41
			30	0.114	2.90	1.46
			40	0.133	3.38	1.68
		XS	80	0.179	4.55	2.17
1 1/4 32	1.660 42.2	STD	5	0.07	1.65	1.11
			10	0.11	2.77	1.81
			30	0.12	2.97	1.93
			40	0.14	3.56	2.27
		XS	80	0.19	4.85	3.00
1 1/2 40	1.900 48.3	STD	5	0.065	1.65	1.28
			10	0.109	2.77	2.09
			30	0.125	3.18	2.37
			40	0.145	3.68	2.72
		XS	80	0.200	5.08	3.63
2 50	2.375 60.3	STD	5	0.065	1.65	1.61
				0.083	2.11	2.03
			10	0.109	2.77	2.64
			30	0.125	3.18	3.01
		STD		0.141	3.58	3.37
			40	0.154	3.91	3.66
				0.172	4.37	4.05
				0.188	4.78	4.40
		XS	80	0.218	5.54	5.03
2 1/2 65	2.875 73	STD		0.109	2.77	3.22
			10	0.120	3.05	3.53
				0.125	3.18	3.67
				0.141	3.58	4.12
		STD		0.156	3.96	4.53
				0.172	4.37	4.97
			30	0.188	4.78	5.40
			40	0.203	5.16	5.80
3 80	3.50 88.9	STD		0.109	2.77	3.95
			10	0.120	3.05	4.34
				0.125	3.18	4.51
				0.141	3.58	5.06
		STD		0.156	3.96	5.58
				0.172	4.37	6.12
			30	0.188	4.78	6.66
			40	0.216	5.49	7.58
3 1/2 90	4.00 101.6	STD	10	0.120	3.05	4.98
				0.125	3.18	5.18
				0.141	3.58	5.82
				0.156	3.96	6.41
		STD		0.172	4.37	7.04
				0.188	4.78	7.66
			30	0.188	4.78	7.66
			40	0.226	5.74	9.12
4 100	4.50 114.3	STD	10	0.120	3.05	5.62
				0.125	3.18	5.85

NPS	OD	SCH	Thick		Weight	
INCH MM	INCH MM	ASTM	INCH	MM	LBS/ FOOT	KG/ METER
4 100	4.50 114.3	STD		0.141	3.58	6.57
				0.156	3.96	7.24
				0.172	4.37	7.96
			30	0.188	4.78	8.67
		STD		0.203	5.16	9.32
				0.219	5.56	10.02
			40	0.237	6.02	10.80
5 125	5.563 141.3	STD	10	0.134	3.40	7.78
				0.156	3.96	9.02
				0.188	4.38	10.8
				0.219	5.56	12.51
		STD	40	0.258	6.55	14.63
6 150	6.625 168.3	STD	10	0.134	3.40	9.30
				0.140	3.56	9.71
				0.156	3.96	10.79
				0.172	4.37	11.87
		STD		0.188	4.78	12.94
				0.203	5.16	13.94
				0.219	5.56	15.00
				0.250	6.35	17.04
		STD	40	0.280	7.11	18.99
				0.312	7.92	21.06
8 200	8.625 219.1	STD	10	0.148	3.76	13.41
				0.156	3.96	14.12
				0.188	4.78	16.96
				0.203	5.16	18.28
		STD		0.219	5.56	19.68
			20	0.250	6.35	22.38
			30	0.277	7.04	24.72
				0.312	7.92	27.73
		STD	40	0.322	8.18	28.58
				0.344	8.74	30.45
				0.375	9.52	33.07
			60	0.406	10.31	35.67
10 250	10.750 273.0	STD	10	0.156	3.96	27.65
				0.165	4.19	18.67
				0.188	4.78	21.23
				0.203	5.16	22.89
		STD		0.219	5.56	24.65
				0.250	6.35	28.06
			20	0.279	7.09	31.23
			30	0.307	7.80	34.27
		STD		0.344	8.74	38.27
			40	0.365	9.27	40.52
12 300	12.750 323.8	STD		0.156	3.96	20.99
				0.172	4.37	23.14
				0.180	4.57	24.18
				0.188	4.78	25.27
		STD		0.203	5.16	27.23
				0.219	5.56	29.34
			20	0.250	6.35	33.41
				0.281	7.14	37.46
		STD		0.312	7.92	41.48
				0.330	8.38	43.81
			30	0.344	8.74	45.62
				0.375	9.53	49.61
		STD	40	0.406	10.31	53.57

Specifications

Spec	Grade	Chemical (% max)					Mechanical			Tolerance		
		C	Mn	P	S	Cu	YS	TS	E %	OD	Thick %	Weight %
A53	A	0.25	0.95	0.050	0.045	0.40	205	330	As Per Spec	≤1 1/2" ±0.4mm	-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" ±0.4mm	-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 1/2" ±0.75%		
A500	D	0.30	1.40	0.045	0.045	0.18	250	400	23			
A252	1				0.050		345	205	30	±1%	-12.50%	+15% & -5%
A252	2				0.050		415	240	25	±1%	-12.50%	+15% & -5%
A252	3				0.050		455	310	20	±1%	-12.50%	+15% & -5%

Round

NPS	OD	Series		Thick	Weight	
INCH MM	INCH MM	TYPE	SPEC	MM	PLAIN END	S/S
1/2 15	0.840 21.3	L	AS1074	2.00	0.947	0.956
		M	AS1074	2.60	1.210	1.22
		H	AS1074	3.20	1.440	1.45
3/4 20	1.050 26.9	L	AS1074	2.30	1.380	1.39
		M	AS1074	2.60	1.560	1.57
		H	AS1074	3.20	1.870	1.88
1 25	1.315 33.7	L	AS1074	2.60	1.980	2
		M	AS1074	3.20	2.410	2.43
		H	AS1074	4.00	2.940	2.96
1 1/4 32	42.4	L	AS1074	2.60	2.540	2.57
		M	AS1074	3.20	3.100	3.13
		H	AS1074	4.00	3.800	3.83
1 1/2 40	1.900 48.3	L	AS1074	2.90	3.230	3.27
		M	AS1074	3.20	3.570	3.61
		H	AS1074	4.00	4.380	4.42
2 50	2.375 60.3	L	AS1074	2.90	4.080	4.15
		M	AS1074	3.60	5.030	5.1
		H	AS1074	4.50	6.190	6.26
2 1/2 65	2.875 76.1	L	AS1074	3.20	5.710	5.83
		M	AS1074	3.60	6.430	6.55
		H	AS1074	4.50	7.930	8.05
3 80	3.50 88.9	L	AS1074	3.20	6.720	6.89
		M	AS1074	4.00	8.370	8.54
		H	AS1074	5.00	10.300	10.5
4 100	4.50 114.3	L	AS1074	3.60	9.75	10.000
		M	AS1074	4.50	12.20	12.500
		H	AS1074	5.40	14.50	14.800
5 125	5.563 139.7	M	AS1074	5.00	16.60	17.100
		H	AS1074	5.40	17.90	18.400
6 150	6.5 165.1	M	AS1074	5.00	19.70	20.300
		H	AS1074	5.40	21.30	21.900

Specifications

Spec	Grade	Mechanical		Chemical Properties			Tolerance		
		YS Mpa min	EL% min	S% max	P% max	CEV% max	OD	Thick	Weight %
AS1074	L						As Per Spec	+Unlimited -8%	+10 -8
AS1074	M	195	20	0.045	0.045	0.40	As Per Spec	+Unlimited -10%	+10 -8
AS1074	H						As Per Spec	+Unlimited -12.5%	+10 -8

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
30X30	A500/EN 10219	3.00	1.891
	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
38X38	A500/EN 10219	2.50	2.032
	A500/EN 10219	3.00	2.362
	A500	1.20	1.358
	A500	1.50	1.674
	A500	1.80	1.981
	A500	2.00	2.180
40X40	A500	2.60	2.753
	A500	3.00	3.115
	A500	3.80	3.789
	A500	4.00	3.947
	A500	1.20	1.433
	A500	1.50	1.768
	A500	1.80	2.094
50X50	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
	A500	1.50	2.239
	A500	1.80	2.659
60X60	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
	75X75	A500	2.00
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
80X80	A500/EN 10219	5.00	8.130
	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
90X90	A500/EN 10219	5.00	10.485
	A500/EN 10219	5.50	11.391
	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
100X100	A500/EN 10219	5.00	11.270
	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
120X120	A500/EN 10219	3.00	8.014
	A500/EN 10219	4.00	10.478
	A500/EN 10219	5.00	12.840
	A500	2.60	7.815
	A500	2.80	8.387
	A500	3.80	11.187
150X150	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

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
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
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
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
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
6"X6"	A500	0.220	6.303
	A500	0.250	7.086
	A500	0.180	6.341
	A500	0.188	6.608
	A500	0.197	6.906

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
8"X8"	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"X10"	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
12"X12"	A500	0.313	14.471
	A500	0.375	17.101
	A500	0.500	22.167
14"X14"	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
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
5"X2"	A500	0.220	4.264
	A500	0.120	2.448
	A500	0.180	3.562
	A500	0.188	3.705
	A500	0.197	3.865
5"X3"	A500	0.203	3.970
	A500	0.220	4.264
	A500	0.120	2.818
	A500	0.180	4.118
	A500	0.188	4.286
6"X3"	A500	0.197	3.865
	A500	0.203	3.970
	A500	0.220	4.264
	A500	0.120	2.818
	A500	0.180	4.118
6"X4"	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
6"X3"	A500	0.220	4.944
	A500	0.120	3.189
	A500	0.180	4.674
	A500	0.188	4.866
	A500	0.197	5.081
6"X4"	A500	0.203	5.224
	A500	0.220	5.623
8"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
8"X6"	A500	0.220	6.303
	A500	0.250	7.086
	A500	0.180	6.341
	A500	0.188	6.608
	A500	0.197	6.906
10"X4"	A500	0.203	7.104
	A500	0.220	7.661
	A500	0.250	8.630
	A500	0.313	10.698
	A500	0.148	6.176
10"X6"	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
12"X4"	A500	0.250	10.174
	A500	0.313	12.538
	A500	0.375	14.785
	A500	0.500	19.079
	A500	0.188	8.930
12"X6"	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
12"X8"	A500	0.375	17.101
	A500	0.500	22.167
	A500	0.188	8.930
	A500	0.197	9.340
	A500	0.203	9.612
14"X6"	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
14"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
16"X8"	A500	0.313	14.471
	A500	0.375	17.101
	A500	0.500	22.167
	A500	0.250	14.806
	A500	0.313	18.337
18"X8"	A500	0.375	21.733
	A500	0.500	28.343

Specifications

Spec	Grade	Chemical (% max)								Mechanical			Tolerance		
		C	Mn	P	Si	S	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 individual 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%			

Management Systems

International



012
Quality
Management System
ISO 9001:2015
Certificate No. 5352

Product Conformity

International



UL Mark
Certificate No. VIZY. EX15394

International



CE Mark
Standard No. | Certificate No.
EN 10219-1:2006 | 1162-CPR-0598 Rev.0.0
EN 10255:2004 + A1:2007 | 6993-2015-CE-IND

International



DNV GL
EN 10217-1:2002+A1:2005
Certificate No. 10554-2017-CE-IND



UAE Ministry of Interior
DCD General Directorate



NSF/ANSI 372-2016
Certificate No.
C0332103-01
C0332104-01



PZH
Certificate No. HK-W-0456-01-2016



COLOR COATED



Step	Process	Description
1	Entry	Uncoilers unwind the strip. Multiple unwound strips are accumulated to maintain a continuous feed.
2	Degrease	The strip passes a set of chemicals for surface preparation. Oil which was used as a rust preventive film is removed.
3	Chemical Treatment	The degreased strip passes through a different set of chemicals for surface conditioning before paint application.
4	Coating	Composed of applicator rolls & drying ovens, the paint is applied & dried.
5	Exit	The strip is recoiled by passing through exit accumulator for storage as coil.
6	Packing	The coil is weighed & tagged.

*The Color Coated Mill is equipped to change colors in between strips to control over-rolling & downtime.

Strip Thickness	0.18 mm - 0.95 mm
Strip Width	600 mm - 1250 mm
Coil ID	508 mm / 610 mm
Coil Weight	4 to 10 MT

Standard Grades

Spec	Chemical Composition % max											Mechanical Properties		
	C	Mn	P	S	Cu	Ni	Cr	Mo	V	Cb	TiB	YS	TS	EL
ASTM A653M / A792M	0.02 to 0.15	0.6	0.03	0.035	0.25	0.2	0.15	0.06	0.008	0.008	0.025	205/380		>_ 20
ASTM A653M / A792M	0.2	1.35	0.2	0.04	0.25	0.2	0.15	0.06	0.008	0.008	0.025	340	450 /--/410	12
EN 10346	Steel Grade	Steel Number	Symbols for the types of available coatings				C	Si	Mn	P	S	YS	TS	EL
	S250GD	1.0242	+Z,+ZF,+ZA,+AZ,+AS				0,20	0,60	1,70	0,10	0,045	205/380		>_ 20
	S280GD	1.0244	+Z,+ZF,+ZA,+AZ,+AS				0,20	0,60	1,70	0,10	0,045	340	450 /--/410	12

Parameters used in above table

YS	Yield Strength (N/mm ²)	EL	Elongation (% , min.)
TS	Tensile Strength (N/mm ²)		

Paint Type

PE	Polyester	PVDF	Polyvinylidene Flouride
PU	Polyurethane	HDP	High Durable Polyester
SMP	Silicon Modified Polyester	SDP	Super Durable Polyester
ARS	Abrasion Resistant System	RMP	Regular Modified Polyester
WF	Wrinkle Finish	WIF	Wood Finish System

Coating Designation	As per ASTM A653M: Z90 to Z275, As per ASTM A792M: AZM100 to AZM210
Dry Film Thickness (DFT)	Topside- Primer 5 to 7µ + Topcoat 20 to 22µ
Backside	Backcoat 6 to 10µ
Gloss @ 60	MIN- 20 , MAX-90
Colour Shade Available	As per RAL K5 Classic (Customized Colour shades)

CONARES

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