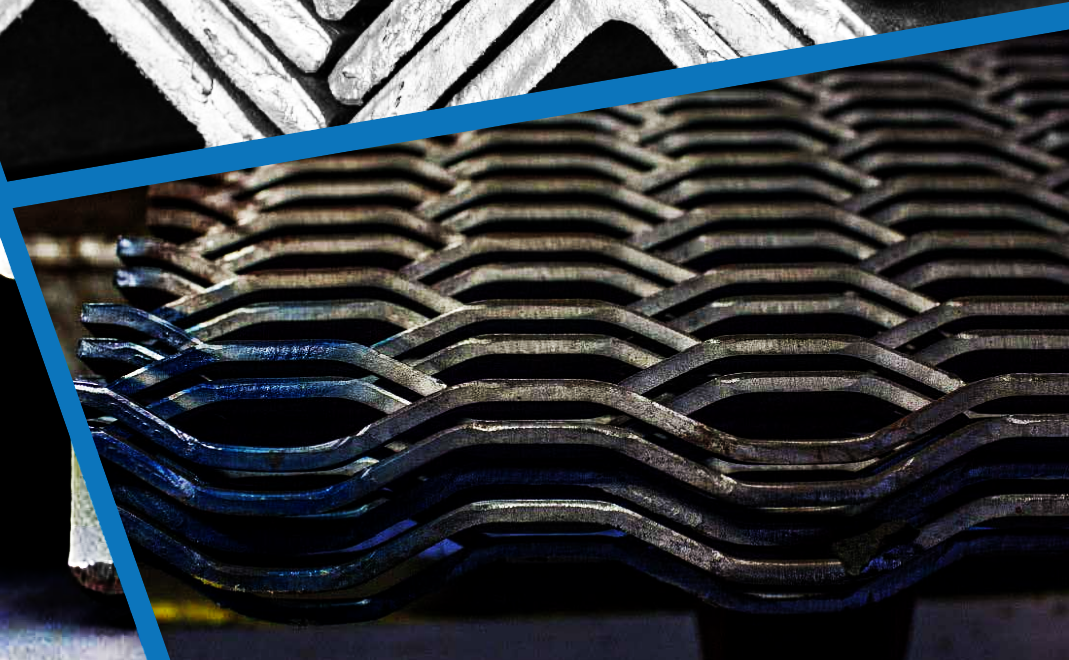




BROCHURE





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COMPANY PROFILE

WHO WE ARE

We are a Mozambican company that specializes in the supply of Stainless Steel, Aluminum and Carbon Steel for all kinds of infrastructure and Engineering in compliance with international standards and rigor.

OUR MISSION

Sell Aluminum, Stainless Steel, Carbon Steel and its components for Commercial purposes, industrial and public, whilst always seeking to exceed customer expectations.

OUR VISION

To Be a reference in sale of commercial, industrial, and Construction of metal and aluminum structures.

OUR VALUES

- Be transparent, principled, ethical and professional;
- Be committed to customer satisfaction;
- Communicate in an open, proactive and constructive manner;
- Be creative, innovative and open to new ideas and changes;
- Work as a team and share knowledge.

COMPANY PROFILE

WHAT WE SUPPLY

We dispose of a large inventory of Beams, Pipes, Channels, Angles, Plates and Sheets, Expanded Metal, Perforated Metal, Bars, Gratings, Tubes, Stanchions and Handrailing in Carbon Steel, Stainless Steel and Aluminum that may be Galvanized, Uncoated or in other finishes.

SERVICES WE PROVIDE

We are composed of professionals with a high level of experience in operation services. We provide the following services with the highest level of integrity and credibility:

- Plate Processing;
- Railway Butt Welding;
- Mechanical & Piping Services;
- Plasma Cutting;
- Construction of Metal Structure;
- Industrial Maintenance.

OUR CUSTOMERS



EQUAL ANGLES

EQUAL ANGLES

EQUAL ANGLES															
Size (mm)	Stock Grades	Stock Lengths	KG'S/ Metre												
			2	2.5	3	4	5	6	8	10	12	15	16	18	20
25x25	CQ	6m	0.77	0.95	1.11		1.77								
30x30	CQ	6m	0.95		1.36		2.18								
40x40	CQ	6m	1.29	1.58	1.87	2.42	2.97	3.52							
45x45	CQ	6m			2.13		3.38								
50x50	CQ	6.13m			2.37	3.06	3.77	4.47	5.82						
60x60	CQ + S355 JR	6.13m				3.70	4.57	5.42	7.09	8.69					
70x70	CQ + S355 JR	6.13m						6.38	8.36	10.27					
80x80	CQ + S355 JR	13m						7.34	9.63	11.86	14.03				
90x90	S355 JR	13m						8.30	10.90	13.45	15.93				
100x100	CQ + S355 JR	13m							12.18	15.04	17.83				
120x120	S355 JR	13m							14.71	18.20	21.62	26.64			
150x150	S355 JR									22.98	27.35	33.77		40.06	
200x200	S355 JR												48.50	54.20	59.90

UNEQUAL ANGLES

UNEQUAL ANGLES

UNEQUAL ANGLES							
Size (mm)	Stock Grades	Stock Lengths	KG'S/ Metre				
			6	8	10	12	15
65x50	S355 JR	6,13m	5.16	6.75			
75x50	S355 JR	13m	5.65	7.39			
80x60	S355 JR		6.37	8.34			
90x65	S355 JR	13m	7.07	9.29	11.40		
100x65	S355 JR			9.94	12.30		
100x75	S355 JR	13m	8.04	10.57	13.04		
125x75	S355 JR			12.16	15.02	17.81	
150x75	S355 JR				16.98	20.17	
150x90	S355 JR				18.18	21.60	26.62

CHANNELS

CHANNELS TAPER FLANGE			
Size (mm)	Stock Grades	Stock Lengths	KG'S/ Metre
76x38	S355 JR	13m	6.70
100x50	S355 JR	6.13m	10.73
120x55	S355 JR	6.13m	13.55
127x64	S355 JR	6.13m	14.93
140x60	S355 JR	6.13m	16.22
152x76	S355 JR	6.13m	17.91
160x65	S355 JR	13m	19.12
178x54	S355 JR	13m	14.55
180x70	S355 JR	13m	22.27
200x75	S355 JR	6m	25.30

CHANNELS PARALLEL FLANGE			
Size (mm)	Stock Grades	Stock Lengths	KG'S/ Metre
100x50	S355 JR	6,13m	10.10
180x70	S355 JR	13m	21.07
200x75	S355 JR	6,13m	24.29
230x75			25.70
230x90	S355 JR	13m	32.20
260x75			27.60
260x90	S355 JR	13m	34.80
300x90			41.40
300x100	S355 JR	13m	45.40

CHANNELS SUPALITE			
Size (mm)	Stock Grades	Stock Lengths	KG'S/ Metre
100x50	CQ	6+13m	8.88
76x38	CQ	6+13m	5.70

FLAT BAR

FLAT BAR

FLAT BAR														
Size (mm)	Stock Grades	Stock Lengths	KG'S / Metre											
			3	4.5	5	6	8	10	12	16	20	25	30	40
20	CQ	6m	0.48	0.71	0.79	0.94	1.26	1.57						
25	CQ	6m	0.60		0.98	1.18	1.57	1.96	2.36					
30	CQ	6m	0.72		1.18	1.41	1.88	2.36	2.83					
40	CQ	6m	0.96	1.42	1.57	1.88	2.51	3.14	3.77	5.02	6.28	7.85		
50	CQ	6m	1.21		1.96	2.36	3.14	3.93	4.71	6.28	7.85	9.81		
60	CQ	6m				2.83	3.77	4.71	5.65	7.54	9.42			
65	CQ	6m				3.06	4.08	5.10	6.12					
70	CQ	6m				3.30	4.40	5.50	6.59	8.79	11.00			
80	CQ	6m				3.77	5.02	6.28	7.54	10.05	12.56	15.70	18.84	25.12
90	CQ	6m				4.24	5.65	7.07	8.48			17.70		
100	S355 JR	6m				4.71	6.28	7.85	9.42	12.56	15.17	19.63	23.55	31.40
110	S355 JR	6m				5.18		8.64	10.36					
130	S355 JR	6m					8.16	10.21	12.25	16.33	20.41	25.51		
150	S355 JR	6m					9.42	11.78	14.13	18.84	23.55	29.44	35.33	
180	S355 JR	6m						14.13	16.19	22.61	28.26			
200	S355 JR	6m						15.70	18.84	25.12	31.40	39.25		
250	S355 JR	6m						19.60	23.60	31.40	39.25	49.06	58.88	
300	S355 JR	6m						23.60	28.30					

GRADE 55C FLAT BAR		
Size (mm)	Stock Lengths	
100x12		9.42
100x16	13m	12.56
100x20		15.70
130x12		12.25
130x16		16.33
130x20		20.41

IPE SECTION

IPE SECTION

IPE - STANDARD

Nominal Size (mm)	KG'S/ Metre	Stock Grade	Stock Lengths	Actual Dimensions (mm)			
				Height	Width	Flange	Web
100x55	8.10	S355 JR	13m	100	55	4.1	5.7
120x64	10.37	S355 JR	13m	120	64	4.4	6.3
140x73	12.89	S355 JR	13m	140	73	4.7	6.9
160x82	15.77	S355 JR	13m	160	82	5	7.4
180x91	18.80	S355 JR	13m	180	91	5.3	8
200x100	22.36	S355 JR	13m	200	100	5.6	8.5

IPE - AA

Nominal Size (mm)	KG'S/ Metre	Stock Grade	Stock Lengths	Actual Dimensions (mm)			
				Height	Width	Flange	Web
100x55	6.72	S355 JR	13m	97.6	55	3.6	4.5
120x64	8.36	S355 JR	13m	117	64	3.8	4.8
140x73	10.05	S355 JR	13m	136.6	73	3.8	5.2
160x82	12.32	S355 JR	13m	156.4	82	4	5.6
180x91	14.94	S355 JR	13m	176.4	91	4.3	6.2
200x100	17.95	S355 JR	13m	196.4	100	4.5	6.7

SQUARE BAR, ROUND BAR, REINFORCING BAR

ROUND BAR, REINFORCING BAR AND SQUARE BAR

ROUND BAR			
Size (mm)	Stock Grades	Stock Lengths	KG'S/ Metre
6	CQ	6m	0.22
8	CQ	6m	0.40
10	CQ	6m	0.62
12	CQ	6m	0.89
16	CQ	6m	1.58
20	CQ	6m	2.47
22	CQ	6m	2.98
24	CQ	6m	3.55
25	CQ	6m	3.85
30	CQ	6m	5.55
32	CQ	6m	6.31
35	CQ	6m	7.55
36	CQ	6m	7.99
38	CQ	6m	8.90
40	CQ	6m	9.87
45	CQ	6m	12.49
50	CQ	6m	15.41

REINFORCING BAR			
Size (mm)	Stock Grades	Stock Lengths	KG'S/ Metre
6	BS4449/SANS 920	6m	0.22
8	BS4449/SANS 920	6m	0.40
10	BS4449/SANS 920	6m	0.62
12	BS4449/SANS 920	6m	0.89
16	BS4449/SANS 920	6m	1.58
20	BS4449/SANS 920	6m	2.47
25	BS4449/SANS 920	6m	3.85
32	BS4449/SANS 920	6m	6.31
40	BS4449/SANS 920	6m	9.87

SQUARE BAR			
Size (mm)	Stock Grades	Stock Lengths	KG'S/ Metre
10x10	CQ	6m	0.79
12x12	CQ	6m	1.13
16x16	CQ	6m	2.01
20x20	CQ	6m	3.14
25x25	CQ	6m	4.91
30x30	CQ	6m	7.07
35x35	CQ	6m	9.62
40x40	CQ	6m	12.60
50x50	CQ	6m	19.65
60x60	S355 JR	6m	28.38
70x70	S355 JR	6m	38.50
75x75	S355 JR	6m	44.20

UNIVERSAL BEAMS

UNIVERSAL BEAMS

UNIVERSAL BEAMS							
Nominal Size (mm)	KG'S/ Metre	Stock Grades	Stock Lengths	Actual Dimensions			
				Height	Width	Flange	Web
203x133	25.1	S355 JR	9+11+13m	203.2	133.2	7.8	5.7
203x133	30.0	S355 JR	13m	206.8	133.9	9.6	6.4
254x146	31.1	S355 JR	9+11+13m	251.4	146.1	8.6	6.0
254x146	37.0	S355 JR	13m	256.0	146.4	10.9	6.3
254x146	43.0	S355 JR	13m	259.6	147.3	12.7	7.2
305x102	24.8	S355 JR	9+11+13m	305.1	101.6	7.0	5.8
305x102	28.2	S355 JR	13m	308.7	101.8	8.8	6.0
305x102	32.8	S355 JR	13m	312.7	102.0	10.8	6.6
305x165	40.3	S355 JR	9+11+13m	303.4	165.0	10.2	6.0
305x165	46.1	S355 JR	13m	306.6	165.7	11.8	6.7
305x165	54.0	S355 JR	13m	310.4	166.9	13.7	7.9
356x171	45.0	S355 JR	9+13m	351.4	171.1	9.7	7.0
356x171	51.0	S355 JR	13m	355.0	171.5	11.5	7.4
356x171	57.0	S355 JR	13m	358.0	172.2	13.0	8.1
356x171	67.1	S355 JR		363.4	173.2	15.7	9.1
406x140	39.0	S355 JR	11+13m	398.0	141.8	8.6	6.4
406x140	46.0	S355 JR	9+13m	403.2	142.2	11.2	6.8
406x178	54.1	S355 JR	9+11+13m	402.6	177.7	10.9	7.7

UNIVERSAL BEAMS							
Nominal Size (mm)	KG'S/ Metre	Stock Grades	Stock Lengths	Actual Dimensions			
				Depth	Width	Flange	Web
406x178	60.1	S355 JR		406.4	177.9	12.8	7.9
406x178	67.1	S355 JR	13m	409.4	178.8	14.3	8.8
406x178	74.2	S355 JR		412.8	179.5	16.0	9.5
457x191	67.1	S355 JR	9+11+13m	453.4	189.9	12.7	8.5
457x191	74.3	S355 JR	9+13m	457.0	190.4	14.5	9.0
457x191	82.0	S355 JR	13m	460.0	191.3	16.0	9.9
457x191	89.3	S355 JR		463.4	191.9	17.7	10.5
457x191	98.3	S355 JR		467.2	192.8	19.6	11.4
533x210	82.2	S355 JR	13m	528.3	208.8	13.2	9.6
533x210	92.1	S355 JR	13m	533.1	209.3	15.6	10.1
533x210	101.0	S355 JR		536.7	210.0	17.4	10.8
533x210	109.0	S355 JR		539.5	210.8	18.8	11.6
533x210	122.0	S355 JR		544.5	211.9	21.3	12.7

UNIVERSAL COLUMNS

UNIVERSAL COLUMNS

UNIVERSAL COLUMNS							
Nominal Size (mm)	KG'S/ Metre	Stock Grades	Stock Lengths	Actual Dimensions			
				Depth	Width	Flange	Web
152x152	23.00	S355 JR	9+13m	152.4	152.2	6.8	5.8
152x152	30.00	S355 JR	9+13m	157.6	152.9	9.4	6.5
152x152	37.00	S355 JR	13m	161.8	154.4	11.5	8.0
203x203	46.10	S355 JR	9+13m	203.2	203.6	11.0	7.2
203x203	52.00	S355 JR	13m	206.2	204.3	12.5	7.9
203x203	60.00	S355 JR		209.6	205.8	14.2	9.4
203x203	71.00	S355 JR		215.8	206.4	17.3	10.0
203x203	86.10	S355 JR		222.2	209.1	20.5	12.7
254x254	73.10	S355 JR	13m	254.1	254.6	14.2	8.6
254x254	88.90	S355 JR	13m	260.3	256.3	117.3	10.3
254x254	107.10	S355 JR		266.7	258.8	20.5	12.8
254x254	132.00	S355 JR		276.3	261.3	25.3	15.3
254x254	167.10	S355 JR		289.1	265.2	31.7	19.2
305x305	96.90	S355 JR	13m	307.9	305.3	15.4	9.9
305x305	117.90	S355 JR		314.5	307.4	18.7	12.0
305x305	136.90	S355 JR		320.5	309.2	21.7	13.8
305x305	158.10	S355 JR		327.1	311.2	25.0	15.8
305x305	198.10	S355 JR		339.9	314.5	31.4	19.1
305x305	240.00	S355 JR		352.5	318.4	37.7	23.0

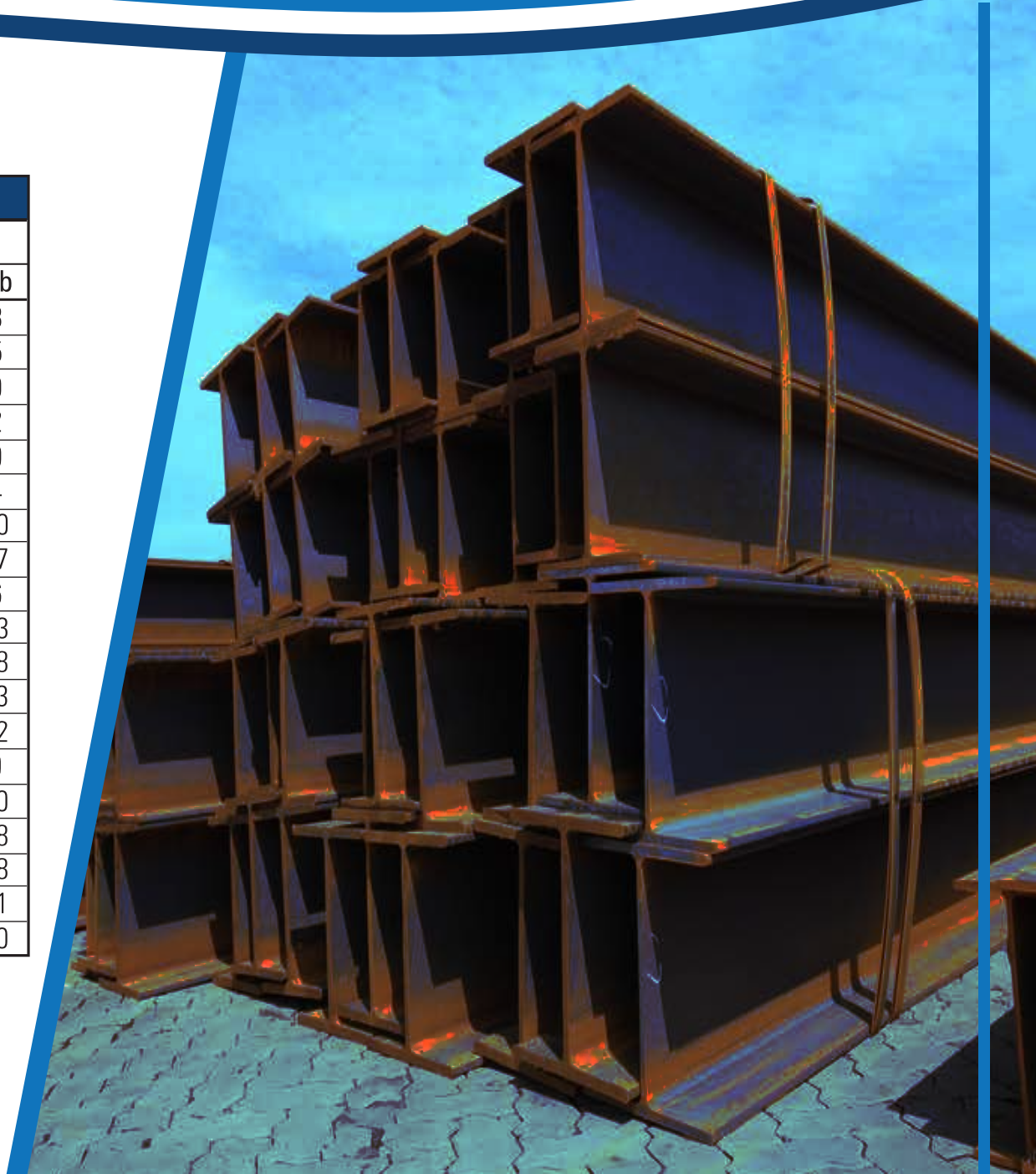


PLATE AS-ROLLED, PLATE EX-COIL

PLATE GRADE S355 JR AS-ROLLED AND CUT FROM COIL

PLATE GRADE S355 JR AS-ROLLED													
Length	Width	KG'S @											
		4.5	5	6	8	10	12	16	20	25	30	40	50
2500	1200	105.98	117.75					376.80	471.00	588.80	706.50	942.00	1177.50
4000	2000							1004.80	1256.00	1570.00	1884.00	2512.00	3140.00
10000	2400		942.00	1130.20	1507.20	1884.00	2260.80	3014.40	3768.00	4710.00	5652.00	7536.00	9420.00
12000	3000			1695.60	2260.80	2826.00	3391.20	4521.60	5652.00				

PLATES CUT FROM COIL								
Length	Width	Grade	4.5	5	6	8	10	12
2500	1200	CQ	105.98	117.75	141.30	188.40	235.50	282.60
2500	1200	S355JR	105.98	117.75	141.30	188.40	235.50	282.60
3000	1500	CQ	158.96	176.63	211.95	282.60	353.25	423.90
3000	1500	S355JR	158.96	176.63	211.95	282.60	353.25	423.90
4000	1925	S355JR	272.00	302.23	362.67	483.56	604.45	725.34

ER400 - ER450 - ER500 - ER700 QUENCHED & TEMPERED, HARD-WEARING PLATE

QUENCHED AND TEMPERED, HARD-WEARING PLATE

ER400 - ER450 - ER500 - ER700 - QUENCHED & TEMPERED, HARD-WEARING PLATE													
Length	Width	KG'S / @											
		4.5	5	6	8	10	12	16	20	25	30	40	50
2500	1200	106.00	117.80	141.30	188.40	235.50	282.60	376.80	471.00	588.80	706.50	942.00	1177.50
10000	2400	847.80	942.00	1130.40	1507.20	1884.00	2260.80	3014.40	3768.00	4710.00	5652.00	7536.00	9420.00

SHEETS-COLD ROLLED, SHEETS GALVANISED

COLD ROLLED SHEETS, GALVANISED SHEETS

COLD ROLLED DRY SHEETS

Length	Width	KG'S @								
		0.5	0.6	0.7	0.8	0.9	1.0	1.2	1.6	2.0
1850	1225	9.11	10.93	12.75	14.57	16.40	18.22	21.86	29.15	36.44
2450	1225	12.06	14.48	16.89	19.30	21.71	24.13	28.95	38.60	48.25
3050	1225	15.02	18.02	21.02	24.03	27.03	30.04	36.04	48.06	60.07

GALVANISED Z275 CQ SHEETS

Length	Width	KG'S @							
		0.5	0.58	0.80	1.0	1.2	1.6	2.0	3.0
1850	1225	9.11	10.57	14.57	18.22	21.86	29.15	36.44	54.66
2450	1225	12.06	13.99	19.30	24.13	28.95	38.60	48.25	72.38
3050	1225	15.02	17.42	24.03	30.04	36.04	48.06	60.07	90.11

GALVANISED Z275 LOCK-FORMING SHEETS

Length	Width	KG'S @						
		0.5	0.58	0.80	1.0	1.2	1.6	2.0
2450	1225	12.06	13.99	19.30	24.13	28.95	38.60	48.25
3050	1225	15.02	17.42	24.03	30.04	36.04	48.06	60.07



SHEETS-HOT ROLLED

HOT ROLLED SHEETS

HOT ROLLED DRY SHEET

Length	Width	1.60	2.00	2.10	2.50	3.00	4.00
2450	1225	38.60	48.60	50.67	60.32	72.38	96.51
3000	1500	57.88	72.35	75.35	90.44	108.53	144.70

HOT ROLLED PICKED & OILED SHEETS

Length	Width						
		1.60	2.00	2.50	3.00	3.50	4.00
2450	1225	38.60	48.25	60.32	72.38	84.44	96.51

VASTRAP/ CHEQUER PLATE

VASTRAP PLATE

VASTRAP/ CHEQUER PLATE					
Length	Width	Stock Grade	Thick	Tear Height	KG @
2500	1200	CQ	3.0	4.6	77.994
2500	1200	CQ	4.5	6.1	113.34
2500	1200	CQ	6.0	7.6	148.65
2500	1200	CQ			

LIPPED CHANNEL

LIPPED CHANNEL

COLD FORMED SECTION - LIPPED CHANNEL

Size (mm)	Stock Lengths	KG'S/ Metre		
		2.0	2.5	3.0
75x50x20		3.12	3.83	4.5
100x50x20		3.52	4.32	5.09
100x75x20		4.31	5.31	6.27
125x50x20		3.91	4.81	5.68
125x65x20		4.39	5.4	6.39
125x75x20		4.7	5.8	6.86
150x50x20		4.31	5.31	6.27
150x65x20		4.78	5.9	6.98
150x75x20		5.09	6.29	7.45
175x50x20		4.7	5.8	6.86
175x65x20		5.17	6.39	7.57
175x75x20		5.49	6.78	8.04
200x50x20		5.09	6.29	7.45
200x65x20		5.53	6.88	8.16
200x75x20		5.88	7.27	8.63
225x50x20		5.49	6.78	8.04

COLD FORMED SECTION - LIPPED CHANNEL

Size (mm)	Stock Lengths	KG'S/ Metre		
		2.0	2.5	3.0
225x65x20		5.96	7.37	8.75
225x75x20		6.27	7.76	9.22
250x50x20		5.88	7.27	8.63
250x65x20		6.35	7.86	9.34
250x75x20		6.67	8.25	9.81
300x50x20		6.67	8.25	9.81
300x65x20		7.14	8.84	10.52
300x75x20		7.45	9.24	10.99

COLD FORMED SECTION - LIPPED ANGLE

Size (mm)	Stock Lengths	KG'S/ Metre		
		2.0	2.5	3.0
75x50x20		2.41	2.95	3.47
100x75x20		3.19	3.93	4.65

SQUARE TUBING

SQUARE TUBING

HOT ROLLED SQUARE TUBING

Dimensions		Stock Grades	Stock Lengths	Wall Thickness mm & KG's per metre								
				1.6	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0
D1	D2											
19	19	CQ	6m	0.90	1.10							
25	25	CQ	6m	1.21	1.50	1.80	2.13					
32	32	CQ	6m	1.53	1.90	2.31	2.74					
38	38	CQ	6m	1.85	2.29	2.83	3.36	3.86	4.37			
50	50	CQ	6m	2.49	3.09	3.76	4.56	5.18	5.87	6.55		
60	60	CQ	6m	2.94	3.66	4.55	5.42	6.28	7.12	7.96		
63	63	CQ	6m	3.09	3.85	4.78	5.70	6.60	7.50	8.38		
76	76	CQ	6m	3.69	4.69	5.70	6.96	7.90	8.98	10.04	11.10	
80	80	CQ	6m	3.95	4.91	6.11	7.30	8.47	9.63	10.78	11.91	
90	90	CQ	6m	4.45	5.54	6.89	8.24	9.57	10.88	12.19	13.48	16.03
100	100	CQ	6m		6.17	7.68	9.20	10.66	12.14	13.60	15.05	17.91
120	120	CQ	6m				11.06	12.85	14.64	16.41	18.18	21.67
152	152	CQ	6m					16.42		21.00		27.78

RECTANGULAR TUBING

RECTANGULAR TUBING

HOT ROLLED RECTANGULAR TUBING												
Dimensions		Stock Grades	Stock Lengths	Wall Thickness mm & KG's per metre								
				1.6	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0
D1	D2											
32	19	CQ	6m	1.182	1.47							
38	19	CQ	6m	1.44	1.78	1.84	2.47	2.83	3.19			
38	25	CQ	6m	1.52	1.88	2.09	2.76					
50	25	CQ	6m	1.85	2.24	2.33	3.36	3.88	4.38			
50	38	CQ	6m	2.19	2.72	2.83	4.01	4.57	5.17			
63	25	CQ	6m	2.19	2.72	3.37	4.01	4.57	5.17			
76	25	CQ	6m	2.19	3.03	3.37	4.48	5.18	5.87			
60	40	CQ	6m	2.44	3.03	3.76	4.48	5.18	5.87	6.55		
76	38	CQ	6m	2.82	3.50	3.76	5.18	6.00	6.81	7.60		
76	50	CQ	6m	3.12	3.66	4.35	5.70	6.60	7.50	8.38		
80	40	CQ	6m	3.09	3.66	4.78	5.42	6.28	7.12	7.96		
100	50	CQ	6m	3.70	4.61	4.55	6.81	7.90	8.98	10.04	11.10	16.03
120	60	CQ	6m	3.69	5.54	5.70	8.24	9.57	10.88	12.19	13.48	17.91
120	80	CQ	6m		6.17	6.89	9.18	10.66	12.14	13.60	15.05	21.67
160	80	CQ	6m			7.68	11.06	12.85	14.64	16.41	18.18	

ROLLED ROUND TUBING

ROUND TUBING

HOT ROLLED ROUND STRUCTURAL TUBING											
OD mm	Stock Grades	Stock Lengths	Wall Thickness mm & KG's per metre								
			1.6	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0
15.8	CQ	6m	0.56								
19.1	CQ	6m	0.69	0.84							
21.4	CQ	6m	0.78	0.96	1.17						
25.4	CQ	6m	0.94	1.15	1.41						
26.9	CQ	6m	1.00	1.23	1.50	1.77					
32	CQ	6m	1.20	1.48	1.82	2.15					
34.1	CQ	6m	1.28	1.58	1.95	2.30	2.64	2.97			
38.1	CQ	6m	1.44	1.78	2.19	2.60	2.99	3.36			
42.8	CQ	6m	1.63	2.01	2.48	2.94	3.39	3.83			
48.5	CQ	6m	1.85	2.29	2.84	3.37	3.88	4.39	4.88		
50.8	CQ	6m	1.94	2.41	2.98	3.54	4.08	4.62	5.14		
57.1	CQ	6m	2.19	2.72	3.37	4.00	4.63	5.24	5.84		
60.3	CQ	6m	2.32	2.88	3.56	4.24	4.90	5.55	6.19		
63.5	CQ	6m	2.44	3.03	3.76	4.48	5.18	5.87	6.55		
76.2	CQ	6m	2.94	3.66	4.54	5.42	6.27	7.12	7.96	8.78	21.67
88.9	CQ	6m	3.44	4.29	5.33	6.35	7.37	8.37	9.37	10.34	12.27

ROLLED ROUND TUBING

ROUND TUBING

HOT ROLLED ROUND STRUCTURAL TUBING											
OD mm	Stock Grades	Stock Lengths	Wall Thickness mm & KG's per metre								
			1.6	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0
101.6	CQ	6m	3.95	4.91	6.11	7.29	8.47	9.63	10.78	11.91	14.14
114.3	CQ	6m		5.54	6.89	8.23	9.56	10.88	12.18	13.48	16.02
127	CQ	6m		6.17	7.68	9.17	10.66	12.13	13.59	15.04	17.90
139.7	CQ	6m				10.11	11.76	13.39	15.00	16.61	19.78
152.4	CQ	6m				11.05	12.85	14.64	16.41	18.17	21.66
165.1	CQ	6m				11.99	13.95	15.89	17.82	19.74	23.54
177.8	CQ	6m				12.93	15.04	17.14	19.23	21.31	25.42
193.70	CQ	6m					16.42		21.00		27.77
219.1	CQ	6m					18.61		23.81		31.53

BOREHOLE CASING						
OD mm	Stock Grades	Stock Lengths	Wall Thickness mm & KG's per metre			
			3.0	3.5	4.0	4.5
152.4	CQ	6m	11.05			
165.1	CQ	6m	11.99		15.89	
177.8	CQ	6m	32.93		17.14	
193.7	CQ	6m		16.42		21.00
219.1	CQ	6m			18.61	23.81

SEAMLESS PIPE

SEAMLESS PIPE

SEAMLESS PIPE - ASTM A106					
Nominal Bore (mm)	OD (mm)	Wall Thickness (mm)	ID (mm)	MASS (kg/m)	Schedule Number
6	10.3	1.73	6.84	0.36	(STD) 40
		2.41	5.48	0.46	(XS) 80
8	13.7	2.24	9.23	0.63	(STD) 40
		3.02	7.65	0.8	(XS) 80
10	17.1	2.31	12.48	0.85	(STD) 40
		3.2	10.7	1.1	(XS) 80
15	21.3	2.77	15.76	1.27	(STD) 40
		3.73	13.84	1.62	(XS) 80
		4.78	11.75	1.94	160
		7.47	6.36	2.56	(XXS) -
20	26.7	2.87	20.96	1.68	(STD) 40
		3.91	18.88	2.19	(XS) 80
		5.56	15.58	2.89	160
		7.82	11.06	3.64	(XXS) -
25	33.4	3.38	26.64	2.5	(STD) 40
		4.45	24.31	3.23	(XS) 80
		6.35	20.7	4.23	160
		9.09	15.22	5.45	(XXS) -

SEAMLESS PIPE - ASTM A106					
Nominal Bore (mm)	OD (mm)	Wall Thickness (mm)	ID (mm)	MASS (kg/m)	Schedule Number
32	42.2	3.56	35.08	3.38	(STD) 40
		4.85	32.5	4.46	(XS) 80
		6.35	29.5	5.61	160
		9.7	22.8	7.74	(XXS) -
40	48.3	3.68	40.94	4.05	(STD) 40
		5.08	38.14	5.4	(XS) 80
		7.14	34.02	7.22	160
		10.16	27.98	9.55	(XXS) -
50	60.3	3.91	52.48	5.43	(STD) 40
		5.54	49.22	7.49	(XS) 80
		8.74	42.82	11.09	160
		11.07	38.16	13.45	(XXS) -
65	73	5.16	62.68	8.62	(STD) 40
		7.01	59.98	11.4	(XS) 80
		9.52	53.96	14.9	160
		14.02	44.96	20.38	(XXS) -

SEAMLESS PIPE

SEAMLESS PIPE

SEAMLESS PIPE - ASTM A106

Nominal Bore (mm)	OD (mm)	Wall Thickness (mm)	ID (mm)	MASS (kg/m)	Schedule Number
80	88.9	5.49	77.92	11.29	(STD) 40
		7.62	73.66	15.25	(XS) 80
		11.13	66.64	21.33	160
		15.24	58.42	27.66	(XXS) -
90	101.6	5.74	90.12	13.57	(STD) 40
		8.08	85.44	18.62	(XS) 80
100	114.3	6.02	102.26	16.07	(STD) 40
		8.56	97.18	22.31	(XS) 80
		11.13	92.0	28.25	120
		13.5	87.3	33.5	160
		17.12	80.06	41.0	(XXS) -
125	141.3	6.6	128.2	21.8	(STD) 40
		9.5	122.3	30.9	(XS) 80
		12.7	115.1	40.2	120
		15.9	109.5	49.1	160
		19.1	103.2	57.4	(XXS) -

SEAMLESS PIPE - ASTM A106

Nominal Bore (mm)	OD (mm)	Wall Thickness (mm)	ID (mm)	MASS (kg/m)	Schedule Number
150	168.3	7.1	154.1	28.3	(STD) 40
		11.0	146.4	42.6	(XS) 80
		14.3	139.8	54.2	120
		18.2	131.8	67.5	160
		22.0	124.4	79.1	(XXS) -
200	219.1	6.35	206.4	33.3	(SCH) 20
		7.04	205.0	36.79	30
		8.18	202.7	42.5	(STD) 40
		10.31	198.5	53.1	60
		12.7	193.7	64.63	(XS) 80
		15.06	188.98	75.8	100
		18.24	182.6	90.4	120
		20.62	177.9	100.9	140
		22.22	174.7	107.8	(XXS) -
		23.01	173.1	111.2	160

SEAMLESS PIPE

SEAMLESS PIPE

SEAMLESS PIPE - ASTM A106

Nominal Bore (mm)	OD (mm)	Wall Thickness (mm)	ID (mm)	MASS (kg/m)	Schedule Number
250	273	6.35	260.3	41.8	20
		7.8	257.4	51.0	30
		9.27	254.5	60.3	(STD) 40
		12.7	247.6	81.5	XS 60
		15.06	242.9	95.9	80
		18.24	236.5	114.6	100
		21.41	230.2	132.9	120
		25.4	222.2	155.0	(XXS) 140
300	323.8	28.58	215.8	172.1	160
		6.35	311.1	49.7	20
		8.38	307.0	65.2	30
		9.52	304.8	73.8	STD
		10.31	303.2	79.7	40
		12.7	298.4	97.4	XS -
		14.27	295.3	108.9	60

SEAMLESS PIPE - ASTM A106

Nominal Bore (mm)	OD (mm)	Wall Thickness (mm)	ID (mm)	MASS (kg/m)	Schedule Number
300	323.8	17.35	289.1	131.9	80
		21.41	281.0	159.7	100
		25.4	273.0	186.8	XXS 120
		25.58	266.6	207.9	140
		33.32	257.2	238.5	160
350	355.6	6.35	342.9	54.7	10
		7.92	339.8	67.9	20
		9.52	336.6	81.3	STD 30
		11.13	333.3	94.4	40
		12.7	330.2	107.4	XS -
		15.06	325.5	126.6	60
		19.05	317.5	158.0	80
350	355.6	23.8	308.0	194.8	100
		27.76	300.1	224.4	120
		31.75	292.1	253.1	140
		35.71	284.2	281.4	160

SEAMLESS PIPE

SEAMLESS PIPE

SEAMLESS PIPE - ASTM A106

Nominal Bore (mm)	OD (mm)	Wall Thickness (mm)	ID (mm)	MASS (kg/m)	Schedule Number
400	406.4	6.35	392.7	62.6	10
		7.92	390.6	77.9	20
		9.52	387.4	93.2	STD 30
		12.7	381.0	123.3	XS 40
		16.66	373.1	160.1	60
		21.41	363.6	203.3	80
		26.19	354.0	245.3	100
		30.94	344.5	286.4	120
450	457.2	36.53	333.3	332.6	140
		40.46	325.5	364.9	160
		6.35	444.5	70.6	10
		7.92	441.4	87.8	20
		9.52	438.2	105.1	STD -
		11.13	434.9	122.4	30
		12.7	431.8	139.2	XS -
		14.27	428.7	155.9	40

SEAMLESS PIPE - ASTM A106

Nominal Bore (mm)	OD (mm)	Wall Thickness (mm)	ID (mm)	MASS (kg/m)	Schedule Number
450	457.2	19.05	419.1	205.6	60
		23.8	409.6	254.4	80
		29.36	398.5	309.4	100
		34.92	387.4	363.2	120
		39.67	377.9	408.0	140
		45.24	366.7	459.2	160

CONVEYANCE PIPE ERW

AVAILABLE SCREWED & SOCKETED OR PLAIN-ENDED, BOTH GALVANISED OR UNCOATED

CONVEYANCE PIPE ERW

CONVEYANCE PIPE ERW							
Nominal Bore (mm)	Approx Outside Diameter (mm)	Minimum Wall Thickness			KG/m		
		Light (mm)	Medium (mm)	Heavy (mm)	Light (mm)	Medium (mm)	Heavy (mm)
6	10.2	1.65	1.75	2.32	0.36	0.40	0.50
8	13.5	1.65	2.05	2.54	0.52	0.60	0.77
10	17.2	1.65	2.05	2.54	0.68	0.89	1.06
15	21.3	1.84	2.32	2.84	1.00	1.21	1.42
20	26.9	2.16	2.32	2.84	1.46	1.57	1.85
25	33.7	2.44	2.84	3.54	2.26	2.40	2.96
32	42.4	2.44	2.84	3.54	2.89	3.08	3.81
40	48.3	2.67	2.84	3.54	3.29	3.51	4.36
50	60.3	2.67	3.19	3.94	4.45	5.13	6.07
65	76.1	3	3.19	3.94	6.05	6.57	7.80
80	88.9	3	3.54	4.24	7.15	8.39	9.84
100	114.3	3.36	3.94	4.73	10.13	12.01	14.17
125	139.7		4.24	4.73		15.87	17.56
150	165.1		4.24	4.73		18.93	20.96

LARGE-BORE CONVEYANCE PIPE TO SABS 719

LARGE-BORE CONVEYANCE PIPE TO SABS 719

LARGE-BORE CONVEYANCE PIPE TO SABS 719				
Nominal Bore (mm)	Outside Diameter (mm)	Wall Thickness (mm)	Internal Diameter (mm)	KG/m
200	219.1	4.5	210.1	23.81
250	273	4.5	264	29.8
300	323.8	4.5	314.8	35.43
350	355.6	4.5	346.6	38.96
400	406.4	4.5	397.4	44.6

200	219.1	6	207.1	31.53
250	273	6	261	39.51
300	323.8	6	311.8	47.02
350	355.6	6	343.6	51.73
400	406.4	6	394.4	59.24
450	457.2	6	445.2	66.76
500	508	6	496	74.28
600	609.6	6	597.6	89.31

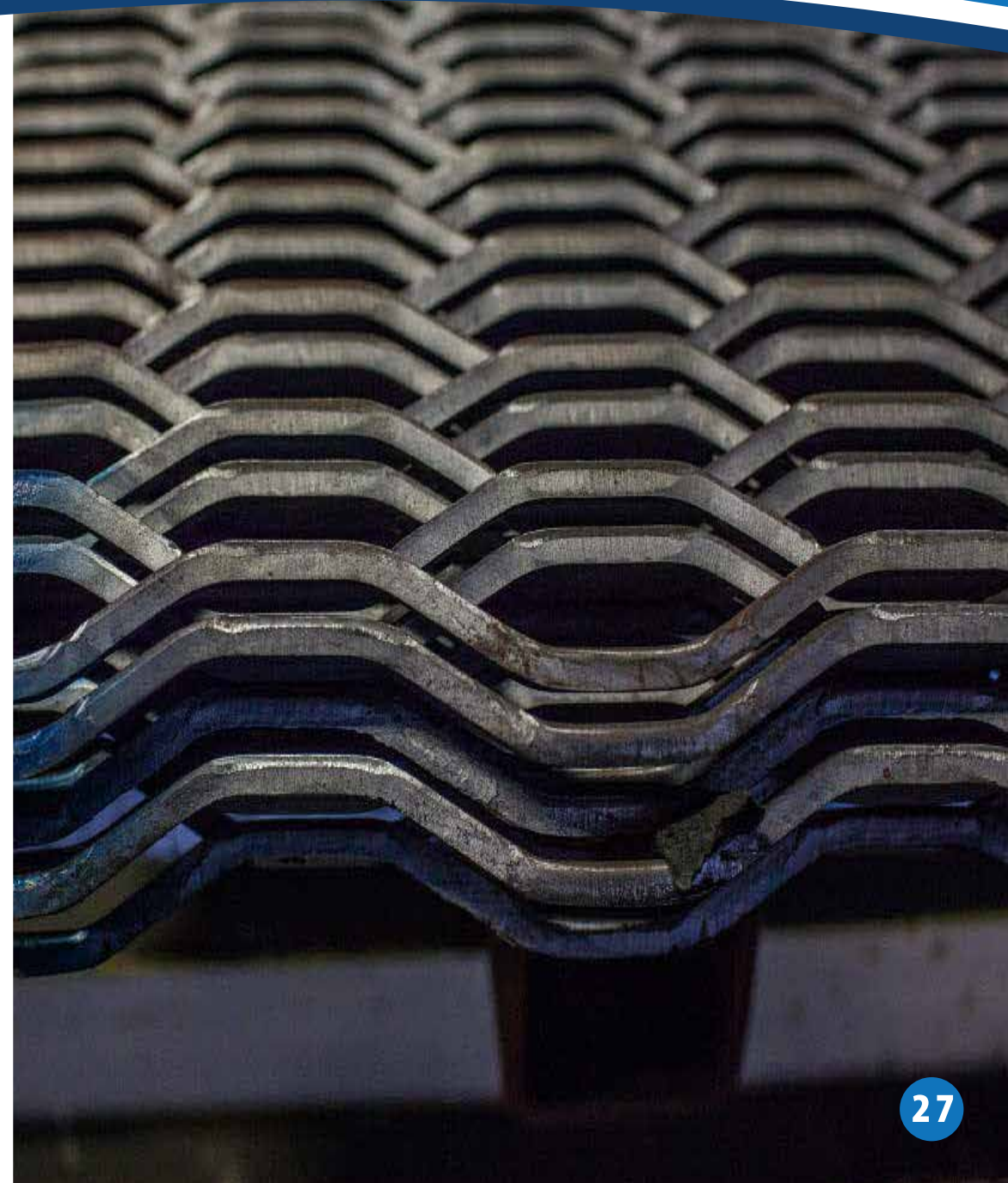
EXPANDED METAL

EXPANDED METAL (FLAT)

Reference	Size of Diamond		Width of Strand	Material Thickness	KG/Each
EXP250D	10	5	1.0	1.0	8.22
EXP305B	115	40	6.0	4.5	25.43
EXP311E	80	45	3.0	3.0	9.04
EXP315F	30	10	2.5	1.6	11.30
EXP318F	40	15	2.5	1.6	10.05
EXP318H	40	15	3.0	2.5	18.84
EXP320C	60	28	3.0	1.6	7.75
EXP320G	50	25	3.0	3.0	14.53
EXP320J	50	25	6.0	4.5	43.61
EXP325A	60	25	6.0	4.5	43.61

EXPANDED METAL (RAISED)

Reference	Size of Diamond		Width of Strand	Material Thickness	KG/Each
EXP6250D	10	5	1.2	1.0	8.22
EXP6311F	80	50	4.5	2.5	9.42
EXP6315F	30	10	3.0	1.6	12.66
EXP6317F	35	12	2.5	1.6	13.91
EXP6320C	50	25	3.0	1.6	7.75
EXP6320D	50	25	3.0	2.0	9.69
EXP6320E	50	25	4.5	2.5	16.15
EXP6320G	50	25	3.0	3.0	15.02
EXP6320H	50	25	4.5	3.0	19.38



REINFORCING MESH

WELDED SQUARE REINFORCING MESH							
Mesh Ref	British Std Ref	Pitch of Wires (mm)		Diameter of Wires (mm)		KG/SQM	Form
		Longitudinal	Cross	Longitudinal	Cross		
888		200	200	12.0	12.0	8.88	Sheets
746		200	200	11.0	11.0	7.46	Sheets
617	A393	200	200	10.0	10.0	6.17	Sheets
517		100	200	8.0	6.3	5.17	Sheets
500		200	200	9.0	9.0	5.00	Sheets
433		100	200	7.1	6.3	4.33	Sheets
395	A252	200	200	8.0	8.0	3.95	Sheets
341		100	200	6.3	5.6	3.41	Sheets
311		200	200	7.1	7.1	3.11	Sheets
	A193	200	200	7.0	7.0	3.02	Sheets
289		100	200	5.6	5.6	2.89	Sheets
278		100	300	6.3	4.0	2.78	Sheets
245		200	200	6.3	6.3	2.45	Sheets
226		100	300	5.6	4.0	2.26	Sheets
	A142	200	200	6.0	6.0	2.22	Sheets
200		100	100	4.0	4.0	2.0	Sheets & Rolls
193		200	200	5.6	5.6	1.93	Sheets & Rolls
156		100	100	3.55	3.55	1.56	Sheets & Rolls



REINFORCING MESH

REINFORCING MESH

WELDED SQUARE REINFORCING MESH

Mesh Ref	British Std Ref	Pitch of Wires (mm)		Diameter of Wires (mm)		KG/SQM	Form
		Longitudinal	Cross	Longitudinal	Cross		
	A98	200	200	5.0	5.0	1.54	Sheets & Rolls
133		100	300	4.0	4.0	1.33	Sheets & Rolls
100		200	200	4.0	4.0	1.00	Sheets & Rolls

CONFORCE

Mesh Ref	British Std Ref	Pitch of Wires (mm)		Diameter of Wires (mm)		KG/SQM	Form
		Longitudinal	Cross	Longitudinal	Cross		
257		150	150	5.0	5.0	2.06	Sheets & Rolls
86		150	150	3.55	3.55	1.04	Sheets & Rolls



FENCING STANDARD & DROPPERS

FENCING STANDARD AND DROPPERS

PRODUCT CODE	SIZE	MASS - EACH
"I" BEAM STANDARDS	1850mm	5.5kg
	2450mm	7.35kg

"Y" STANDARDS	1850mm	3.70kg
	2450mm	4.90kg
	3050mm	7.02kg
	3600mm	8.28kg

"K" STANDARDS	1850mm	3.51kg
	2450mm	4.65kg

SECURITY STANDARDS "Y" TYPE PLUS 450mm Overhang	2450mm	5.3kg
	3050mm	7.42kg

DROPPERS	950mm	
	1250mm	
	1400mm	
	1850mm	
	2450mm	
	3050mm	

GENERAL WIRE PRODUCTS

GENERAL WIRE PRODUCTS

HARD DRAWN WIRE
Size (mm)
6.0mm - 60.0mm

BLACK ANNEALED WIRE - 50KG COILS
Diameter (mm)
1.6mm - 5.0mm

GALVANISED WIRE IN JUMBO COILS
Size (mm)
1.60mm
1.80mm
2.00mm
2.50mm
3.15mm
4.00mm

WIRE ROD SIZES & AVAILABLE SPECS	
Sizes	Product
5.5 - 13.5mm	SAE 1010
5.5 - 13.5mm	SAE 1008
5.5 - 13.5mm	SAE 1012
5.5 - 13.5mm	SAE 1018

LIGHT GALVANISED WIRE - 50kg COILS	
Diameter (mm)	Length (m)
4.00	500
3.15	810
2.50	1300
2.00	2015
1.60	3175

HIGH STRAIN WIRE LIGHTLY GALVANISED 50KG COILS		
Diameter (mm)	B/Load (kg)	Length (m)
2.24	450	1650
2.00	450	2100
Oval	600	1500

FIELD FENCE: TYPE '244'		
Imperial Pattern	Metric Pattern	Mass
1047/12	10-119-30	57
1047/6	10-119-15	74
1374/12	13-188-30	68.0
1374/6	13-188-15	103.0
1483/12	14-211-30	83.0
1483/6	14-211-15	113.0

IOWA BARBED WIRE GALVANISED		
Size (mm)	Length (m)	Mass (kg)
2.50	540	50
2.50	378	35
2.50	270	25
2.00	800	50
2.00	400	25

WE ALSO SUPPLY:

Diamond Mesh, Hexagonal Mesh (Chicken & Pig Mesh), Made up Fencing Posts and Stay & Gates.

GENERAL WIRE PRODUCTS

GENERAL WIRE PRODUCTS

KAROO I BARBED GALVANISED

Size	(m)	Mass (kg)
2.80 x 1.90	845	35
3.15 x 2.50	515	35

KAROO II BARBED WIRE FULLY GALVANISED

Size	(m)	Mass (kg)
1.60	845	35

RAZOR WIRE

Product Description	Weight (kg)
50mm Flat Razor Wire (15m)	5
700mm Flat Wrap Razor Wire (15m)	7.5
900mm Flat Wrap Razor (15m)	9.0
450mm Diamond Concertina Razor Wire (10m)	5.0
730mm Diamond Concertina Razor Wire (12m)	7.5
900mm Diamond Concertina Razor Wire (15m)	9.0
980mm Diamond Concertina Razor Wire (15m)	9.5
200m Single Strand Razor Wire	0.055

RECTAGRID FLOOR GRATING

RECTAGRID FLOOR GRATING

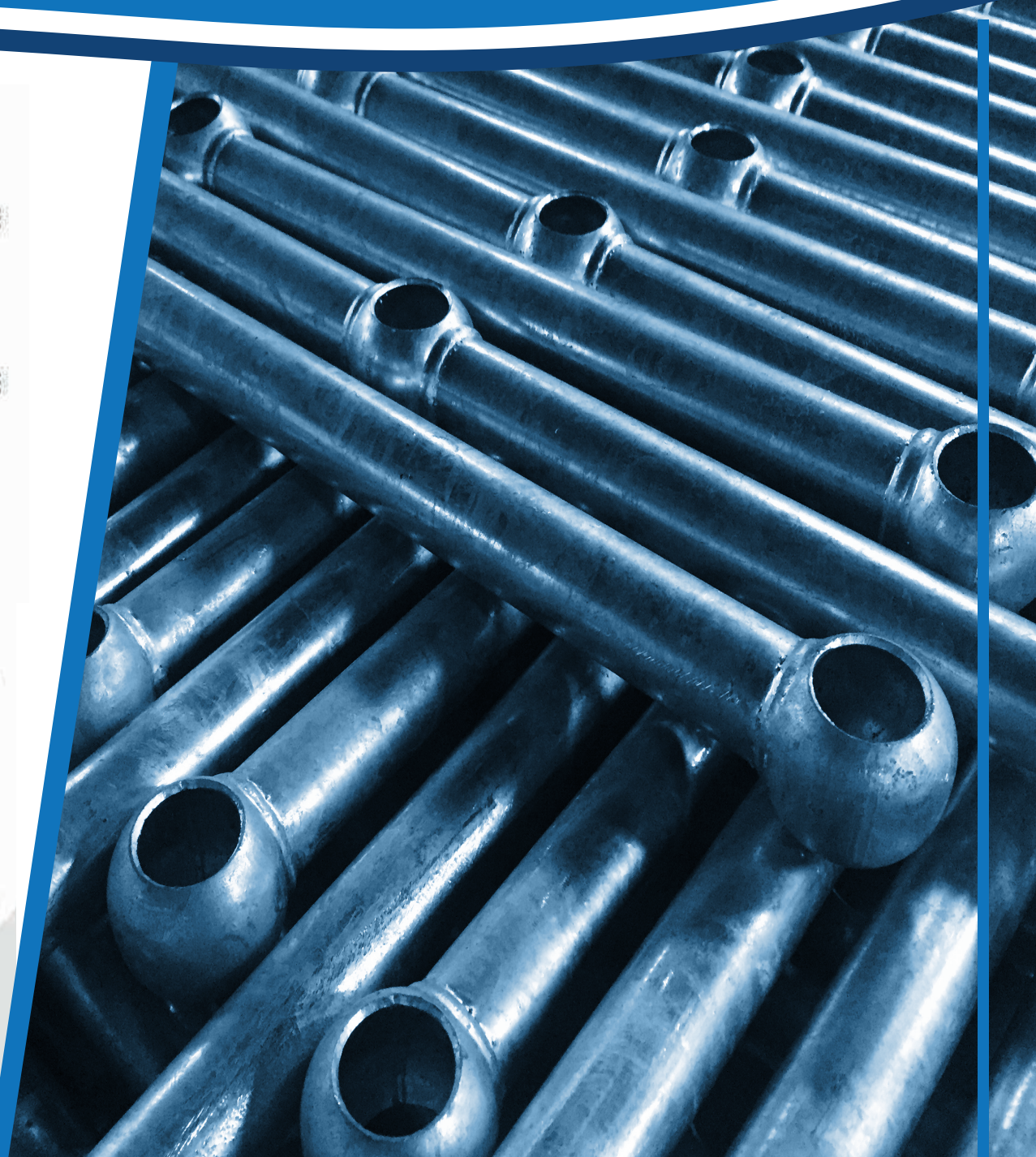
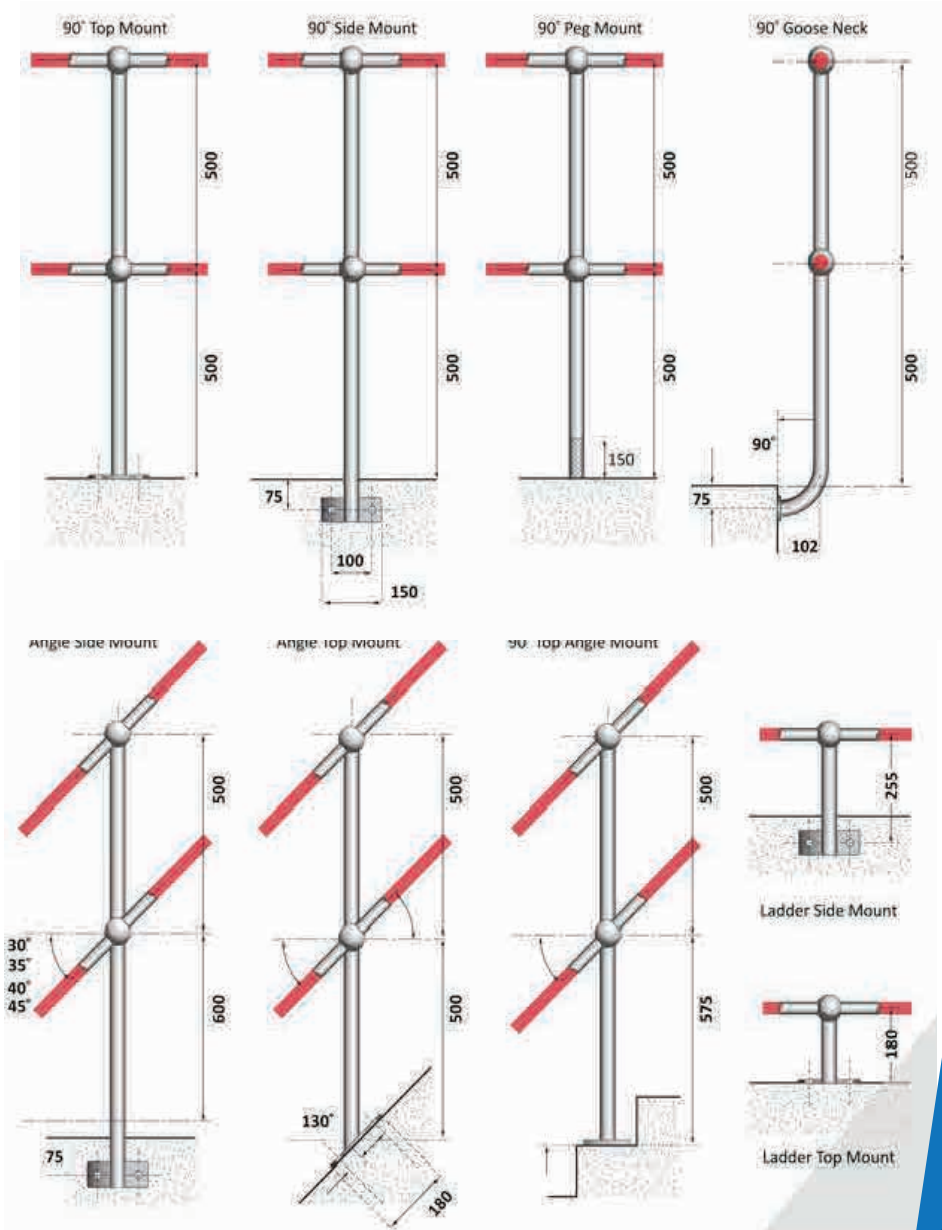
RECTAGRID 40/40 APERTURE				
Mentis Type/Pitch	Bearer Bar	Panel Size	Finish	Mass each per sheet
RS40 (40x40)	25 x 4.5	2400 x 1200	Unpainted & Bitumen Coated	86 kg's
RS40 (40x40)	25 x 4.5	2400 x 1200	Galvanised	92.02 kg's
RS40 (40x40)	30 x 4.5	2400 x 1200	Unpainted & Bitumen Coated	100 kg's
RS40 (40x40)	30 x 4.5	2400 x 1200	Galvanised	107 kg's
RS40 (40x40)	40 x 4.5	2400 x 1200	Unpainted & Bitumen Coated	125 kg's
RS40 (40x40)	40 x 4.5	2400 x 1200	Galvanised	133.75 kg's
RS40 (40x40)	50 x 4.5	2400 x 1200	Unpainted & Bitumen Coated	148.9 kg's
RS40 (40x40)	50 x 4.5	2400 x 1200	Galvanised	160.24 kg's
RS40 (40x40)	60 x 4.5	2400 x 1200	Unpainted & Bitumen Coated	174.38 kg's
RS40 (40x40)	60 x 4.5	2400 x 1200	Galvanised	188.32 kg's

RECTAGRID 40/40 APERTURE				
Mentis Type/Pitch	Bearer Bar	Panel Size	Finish	Mass each per sheet
RS40 (45x40)	25 x 4.5	2400 x 1200	Unpainted & Bitumen Coated	77.72
RS40 (45x40)	25 x 4.5	2400 x 1200	Galvanised	82.38
RS40 (45x40)	30 x 4.5	2400 x 1200	Unpainted & Bitumen Coated	89.19
RS40 (45x40)	30 x 4.5	2400 x 1200	Galvanised	94.54
RS40 (45x40)	40 x 4.5	2400 x 1200	Unpainted & Bitumen Coated	112.07
RS40 (45x40)	40 x 4.5	2400 x 1200	Galvanised	118.79

RECTAGRID 40/40 APERTURE				
Mentis Type/Pitch	Bearer Bar	Panel Size	Finish	Mass each per sheet
RS40 (45x40)	25 x 4.5	2400 x 1200	Unpainted & Bitumen Coated	82.85
RS40 (45x40)	25 x 4.5	2400 x 1200	Galvanised	87.82
RS40 (45x40)	30 x 4.5	2400 x 1200	Unpainted & Bitumen Coated	94.32
RS40 (45x40)	30 x 4.5	2400 x 1200	Galvanised	99.98
RS40 (45x40)	40 x 4.5	2400 x 1200	Unpainted & Bitumen Coated	117.19
RS40 (45x40)	40 x 4.5	2400 x 1200	Galvanised	124.22

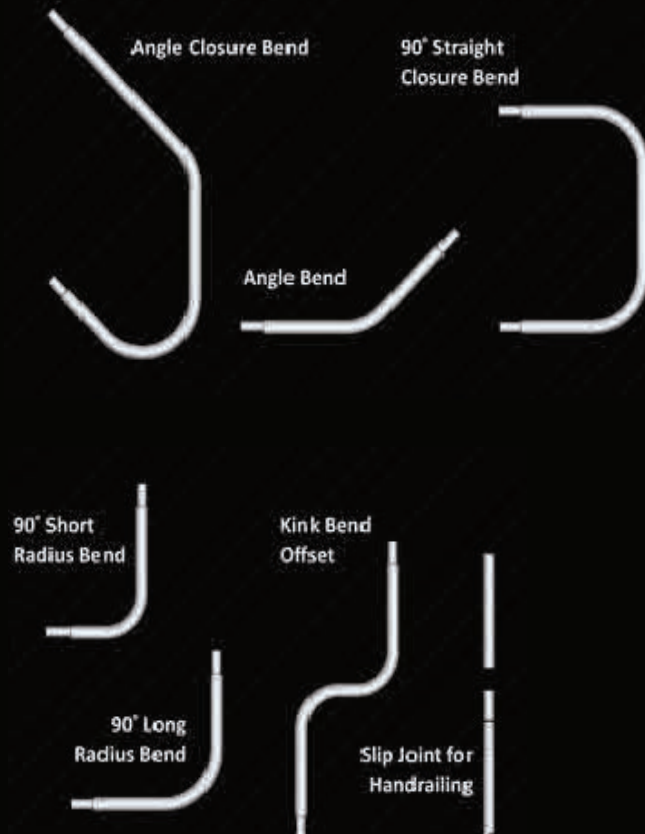
HANDRAIL STANCHIONS

We Supply Galvanized and Uncoated Handrail Stanchions



HANDRAIL ACCESSORIES

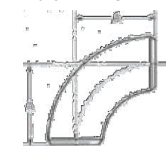
We Supply Galvanized and Uncoated Handrail Accessories:



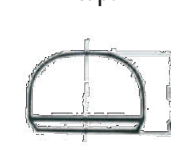
DIMENSIONS OF BUTTWELD FITTINGS

Nominal Pipe Size		OD (mm)	90° ELBOWS long radius	45° ELBOWS long radius		90° ELBOWS short radius	EQUAL TEES	CAPS	STUB ENDS			REDUCERS eccentric/ concentric
(mm)	inches		Centre to face (A)	Centre to face (B)	Radius (A)	Centre to face (A)	Centre to end (C)	Length (E)	Diameter (G)	Long (ASA) Length (F)	Short (MSS) length (F)	Length (H)
6	1/8	-	-	-	-	-	-	-	-	-	-	-
8	1/4	-	-	-	-	-	-	-	-	-	-	-
10	3/8	-	-	-	-	-	-	-	-	-	-	-
15	1/2	21.34	38.10	15.90	38.10	-	25.40	25.40	34.90	76.20	50.80	50.80
20	3/4	26.67	28.60	11.10	28.60	-	28.60	25.40	42.80	72.20	50.80	50.80
25	1	33.40	38.10	22.20	38.10	25.40	38.10	38.10	50.80	101.60	50.80	50.80
32	1 1/4	42.16	47.60	25.40	47.60	31.80	47.60	38.10	63.50	101.60	50.80	50.80
40	1 1/2	48.26	57.20	28.60	57.20	38.10	57.20	38.10	73.00	101.60	50.80	63.50
50	2	60.32	76.20	34.90	76.20	50.80	63.50	38.10	92.00	152.40	63.50	76.20
65	2 1/2	73.02	95.20	44.50	95.20	63.50	76.20	38.10	104.80	152.40	63.50	88.90
80	3	88.90	114.00	50.80	114.00	76.20	85.70	50.80	127.00	152.40	63.50	88.90
90	3 1/2	101.60	133.00	57.20	133.00	88.90	95.30	63.50	139.70	152.40	76.20	101.60
100	4	114.30	152.00	63.50	152.00	101.60	104.80	63.50	157.20	152.40	76.20	101.60
125	5	141.30	191.00	82.60	191.00	127.00	123.80	76.20	185.70	203.20	76.20	127.00
150	6	168.27	228.60	95.30	228.60	152.40	142.80	88.90	215.90	203.20	88.90	140.00
200	8	219.07	304.80	127.00	304.80	203.20	177.80	101.60	270.00	203.20	101.60	152.00
250	10	273.05	381.00	158.70	381.00	254.00	215.90	127.00	324.00	254.00	127.00	178.00
300	12	323.85	457.20	190.50	457.20	305.00	254.00	152.40	381.00	254.00	152.40	203.00
350	14	355.60	533.40	222.20	533.40	356.00	280.00	165.10	412.80	305.00	152.40	330.00
400	16	406.40	609.60	254.00	609.60	406.00	304.80	177.80	470.00	305.00	152.40	356.00
450	18	457.20	685.80	285.80	685.80	457.00	343.00	203.20	533.40	305.00	152.40	381.00
500	20	508.00	762.00	317.60	762.00	508.00	381.00	228.60	584.20	305.00	152.40	508.00
600	24	609.60	914.40	381.00	914.40	610.00	432.00	266.70	692.20	305.00	152.40	508.00

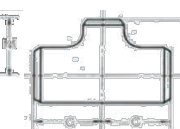
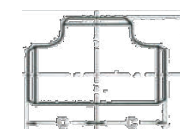
90° - 45° Elbow L.R or S.R



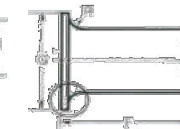
Caps



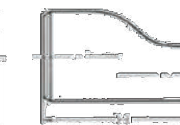
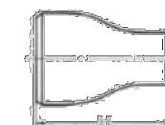
Equal & Reducing Tees



Stub Ends



Eccentric & Concentric Reducers



BSP SCREWED FITTINGS (316L)

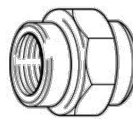
90° Elbow



Equal Tees



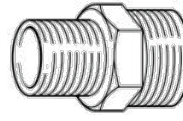
Union



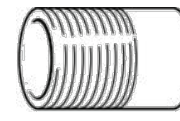
Socket



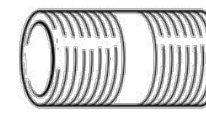
Reducing Nipple



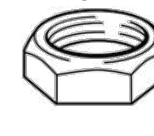
Welding Nipple



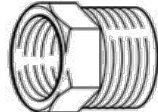
Barrel Nipple



Hexagon Nut



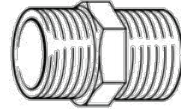
Reducing Bush



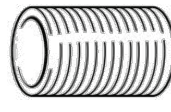
Half Socket



Hexagon Nipple



Equal Nipple



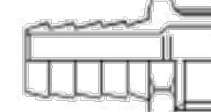
Square Head Plug



Hexagon Head Plug



Swage/Hose Nipple



FLANGES AND VALVES

FLANGES



Slip-on



Welding Neck



Threaded



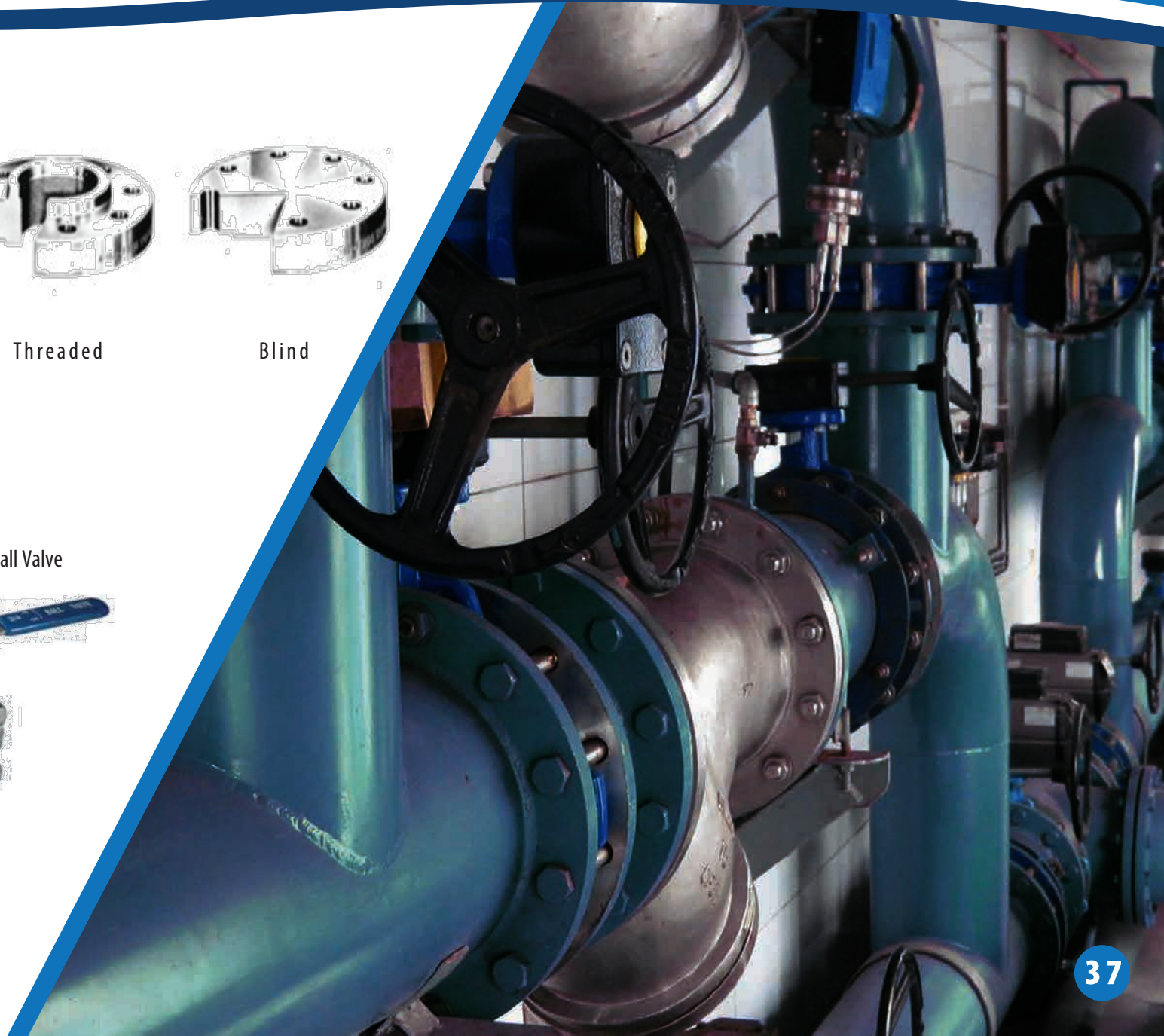
Blind

BALL VALVES

One Piece Ball Valve



Three Piece Ball Valve



ROOFING

COLOUR COATED: STANDARD COLOUR RANGE FOR EXTERIOR USE



WHITE LION
No: N15010



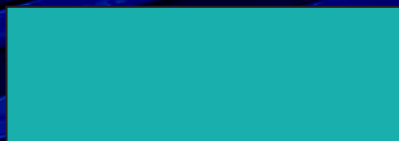
FISH EAGLE WHITE
No: N14128



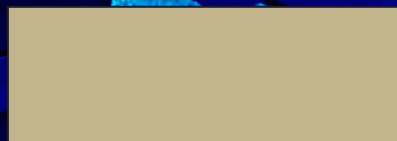
DARK DOLPHIN
No: N13030



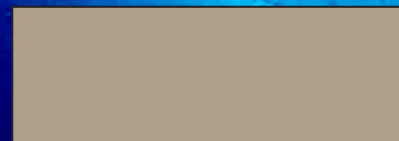
KALAHARI RED
No: N06551



UMHLANGA WAVE
No: N02103

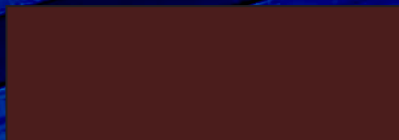


SANDSTONE BEIGE
No: N15365



GEMSBOK SAND
No: N15366

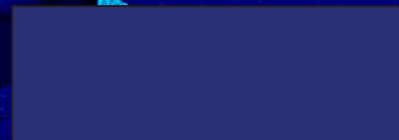
NOTE:
The colours may not display correctly due to individual computer screen settings. Different print technology can also result in colour deviation when printing this data sheet.



BUFFALO BROWN
No: N09412



KINGFISHER BLUE
No: N01029



AZURE BLUE
No: N01109



DOVE GREY
No: N13639



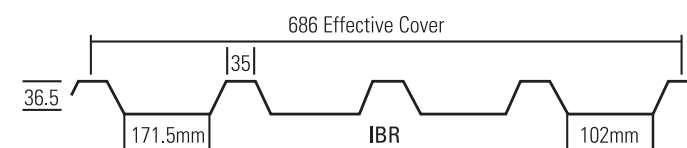
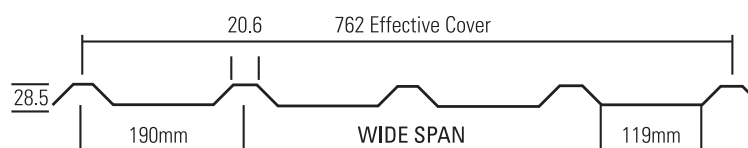
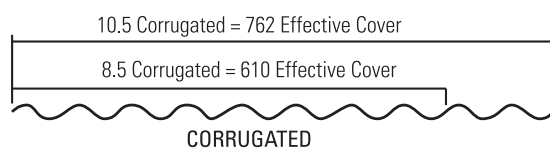
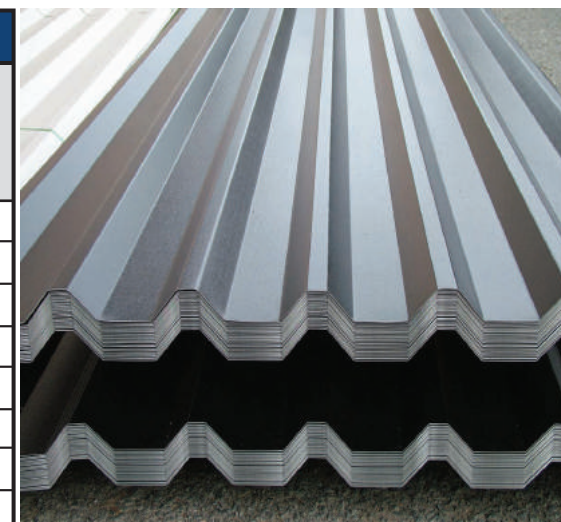
ALOE GREEN
No: N03286



TRAFFIC GREEN
No: N03002

ROOFING SHEETS

ROOFING SHEETS							
ZN Grams/SQM	Thickness	Steel Grade	KG's Per Metre				COLOUR COATED
			8.5 Corrugated	10.5 Corrugated	Widespan	IBR	
			610mm coverage	762mm coverage	762mm coverage	686mm coverage	
Z100	0.25	ISQ550 FH	1.530	1.836	1.836	1.836	
Z100	0.27	ISQ550 FH	1.653	1.983	1.983	1.983	
Z100	0.30	ISQ550 FH	1.837	2.204	2.204	2.204	
Z100/Z150	0.40	ISQ550 FH		2.974	2.974	2.974	2.974
Z150/Z275	0.47	ISQ550 FH		3.494	3.494	3.494	3.494
Z150/Z275	0.50	ISQ550 FH		3.718	3.718	3.718	3.718
Z275	0.58	ISQ300 FH		4.312	4.312	4.312	4.312
Z275	0.80	ISQ230 FH		5.949	5.949	5.949	5.949



NOTES:

1. Available in Galvanised, Zincal, Aluzinc and Colour Coated material.
2. Roofing sheets can be rolled to any length from 1 to 13 metres.
3. If the KG per metre box is populated, it is available in the profile at the head of the column.
4. We also provide bull nosing, cranking/curving of roof sheets and other accessories such as flashing, translucent sheeting etc. Ask your BSi Steel representative for more information.

COMPARISON CHART

COMPARISON CHART

HARDNESS VS TACTILE STRENGTH			
Steel Tensile Strength	Brinell* N ^o	Vickers DPN or VPN	Rockwell 'C' - 150kg
3198	945	1250	71
2904	856	1050	69
2641	781	975	67
2394	712	910	65
2209	653	790	62
2039	601	715	59
1884	555	633	56
1730	514	572	52
1622	477	523	49
1514	444	479	47
1421	415	441	44
1313	388	409	41
1236	363	382	39
1158	341	358	36
1097	321	332	33
1019	302	310	31
973	285	290	29

HARDNESS VS TACTILE STRENGTH			
Steel Tensile Strength	Brinell* N ^o	Vickers DPN or VPN	Rockwell 'C' - 150kg
911	269	274	26
865	255	260	24
819	241	246	22
772	229	234	20
741	217	222	18
695	207	212	16
664	197	202	13
633	187	192	10
602	179	184	8
587	170	175	6
556	156	161	1
510	143	148	-
463	131	136	-
432	121	126	-
386	112	117	-
355	103	109	-
324	95	100	-

USEFUL CALCULATIONS

1. Mass of a Sheet <4.5mm-
Length x Width x Thickness x 8.039*
2. Mass of a Plate >4.5mm-
Length x Width x Thickness x 7.85*
3. Mass of a Round Bar-
Diam. x Diam. x 0.00616 = KG/Metre
4. Mass of a Hexagonal Bar-
Diam. x Diam. x 0.0068 = KG/Metre
5. Mass of a Round Tube-
O.D Minus Wall Thickness
x Wall Thickness x 0.02466
6. Inside Diameter = O.D minus
2 x Wall Thickness.

**Note this factor may differ for different steel types.*

WEAR RESISTANT & HIGH STRENGTH STEELS

WEAR RESISTANT AND HIGH STRENGTH STEEL

WEAR RESISTANT & HIGH STRENGTH STEELS									
	Typical Hardness		Typical Tensile Strength	Typical Yield Strength	Typical Impact Strength	Max Operating Temp	Typical Elongation	Thickness Range	Comments
	BHN	HRC	MPa	MPa	J	(°C)	%	mm	
Wear Plate 200 Bennox	220	20	600	450	-	-	-	3-50	Low grade liner material. High Carbon. Welding & Fabrication not recommended.
BSi 400	410	42	1400	1050	35 @ 0°C	300	14	4-100	Good wear and impact resistance. May be used in some wear/structural applications.
BSi 450	460	44	1500	1150	35 @ 0°C	300	14	4-100	Improved wear resistance. Intermediate between 400 & 500 BHN steels.
BSi 500	510	52	1700	1350	35 @ 0°C	300	14	4-80	Excellent wear resistance. High resistance to impact.
BSi T700	270	25	840	760	80 @ -50°C	500	24	6-150	High strength structural steel not used for wear resistance unless under severe impact conditions.
BSi CrC600	600	59	-	-	-	700+	-	10-25	Plate overlaid with high Chromium Carbide material. Useful in fabrications and at elevated temperatures. Good sliding wear resistance.
BSi 700MC	270	22	850	760	80 @ -50°C	500	14	2-12	Highly formable, high strength structural steel for motor and other industry.
Mild Steel	130	-	400	250	-	-	23	2-100	For comparison purposes only.

GAUGE TABLE

GAUGE TABLE

Gauge/Jauge /Medidas No.	SWG/Pouces /Polegadas/Inches	SWG/SWG /SWG/mm
0	0.324	8.230
1	0.300	7.620
2	0.276	7.010
3	0.252	6.401
4	0.232	5.893
5	0.212	5.385
6	0.192	4.877
7	0.176	4.470
8	0.160	4.064
9	0.144	3.658
10	0.128	3.251
11	0.116	2.946
12	0.104	2.642
13	0.92	2.337
14	0.80	2.032
15	0.72	1.829
16	0.64	1.626

Gauge/Jauge /Medidas No.	SWG/Pouces /Polegadas/Inches	SWG/SWG /SWG/mm
17	0.056	1.422
18	0.048	1.219
19	0.040	1.016
20	0.036	0.914
21	0.032	0.813
22	0.028	0.711
23	0.024	0.610
24	0.022	0.559
25	0.020	0.508
26	0.018	0.457
27	0.0164	0.4166
28	0.0148	0.3759
29	0.0136	0.3454
30	0.124	0.3150
31	0.0116	0.2946
32	0.0108	0.2743
33	0.0100	0.254

Gauge/Jauge /Medidas No.	SWG/Pouces /Polegadas/Inches	SWG/SWG /SWG/mm
34	0.0092	0.2369
35	0.0084	0.2134
36	0.0076	0.1930

THEORETICAL CALCULATIONS

THEORETICAL CALCULATIONS

1. MASS OF A SHEET < 4.5mm $\frac{\text{Length} \times \text{Width} \times \text{Thickness} \times 8.039}{1000 \quad 1000}$
2. MASS OF A PLATE > 4.5mm $\frac{\text{Length} \times \text{Width} \times \text{Thickness} \times 7.85}{1000 \quad 1000}$
3. INSIDE DIAMETER O.D minus 2 x wall thickness
4. MASS OF ROUND TUBE O.D minus Wall x Wall x 0.02466 Sample - 50.8 x 2.0 Round Calculation: $50.8 - 2.0 = 48.8 \times 2 = 97.6 \times 0.02466 = 2.40\text{kg/metre}$
5. To calculate the mass of a square or rectangular tube, first work out the round 'input' size and then the mass of the round tube. Round 'input' size for square or rectangular tube. $\frac{\text{Side A} + \text{Side B} \times 2}{3.142}$ Sample - 50.8 x 25.4 Rectangular Calculation: $50.8 + 25.4 = 76.2$ $76.2 \times 2 = 152.4$ $\frac{152.4}{3.142} = 48.5$

6. Rands per Ton $\frac{\text{Price per Unit} \times 1000}{\text{Mass}}$
7. Round Bar: $D \times D \times 0.00616 = \text{kg/metre}$
8. Hexagonal Bar: $D \times D \times 0.0068 = \text{kg/metre}$
9. Square Bar: $D \times D \times 0.00787$
10. Flat Bar: $D \times T \times 0.00786$

SPECIFICATIONS - PLATE

PLATE SPECIFICATIONS

QUALITY	CHEMICAL COMPOSITION % (LADLE ANALYSIS)												Tensile Strength (MIN) (MPa)	Yield Strength (MIN) (MPa)	Elongation % (MIN) IN GAUGE LENGTH		CHARPY V NOTCH	
	C	Mn	P	S	SI	V	Al	NI	Cr	Cu	B	Nb			200mm	5,56	TEMP C	AVE (J)
Mild Steel Commercial Quality	0,25 Max		0,04 Max	0,04 Max									NOT SPECIFIED					
BS4360 43A	0,25 Max	1,60 Max	0,05 Max	0,05 Max	0,05 Max								430/AR580	275 (t<16)	20	22		
43C	0,18 Max	1,50 Max	0,05 Max	0,05 Max	0,05 Max								430/AR580	275 (t<16)	20	22	0	
43D	0,16 Max	1,50 Max	0,04 Max	0,04 Max	0,10/0,50								430/AR580	275 (t<16)	20	22	-20	27
SANS 1431 300WA	0,22 Max	1,60 Max	0,04 Max	0,04 Max	0,05 Max								430/AR580	300 (t<40)	20	22		
300WC	0,22 Max	1,60 Max	0,04 Max	0,04 Max	0,05 Max								430/AR580	300 (t<40)	20	22	0	27
300WDD	0,22 Max	1,60 Max	0,04 Max	0,04 Max	0,05 Max								430/AR580	300 (t<40)	20	22	-30	27
Higher Strength BS4360 50B	0,23 Max	1,60 Max	0,05 Max	0,05 Max	0,05 Max	0,003/0,10						0,003/0,10	450/AR580	355 (t<16)	18	20	20	27
50C	0,20 Max	1,50 Max	0,05 Max	0,05 Max	0,05 Max							0,003/0,10	490/AR580	355 (t<16)	18	20	0	27
SANS 1431 350WA	0,22 Max	1,60 Max	0,04 Max	0,04 Max	0,05 Max								480/AR580	350 (t<40)	18	20		
350WC	0,22 Max	1,60 Max	0,04 Max	0,04 Max	0,04 Max								430/AR580	350 (t<40)	18	20	0	27
350WDD	0,22 Max	1,60 Max	0,04 Max	0,04 Max	0,04 Max								430/AR580	350 (t<40)	18	20	-30	27
Corrosion Resistant Corten A	0,12 Max	0,20/0,50	0,07/0,15	0,05 Max	0,25/0,75				0,65 Max	0,30/1,25	0,25/1,55		430/AR580	345 (t<12.7)	18 (t<12.7)	22 (50mm)		
Corten B	0,19 Max	0,80/1,25	0,04 Max	0,05 Max	0,30/0,65	0,02/0,10	0,015/0,06		0,40 Max	0,40/0,65	0,25/0,40		430/AR580	345 (t<100)	18 (t<100)	21 (50mm)		
Corten C	0,19 Max	0,80/1,35	0,04 Max	0,05 Max	0,30/0,65	0,04/0,10	0,015/0,06		0,40 Max	0,40/0,70	0,25/0,40		430/AR580	415 (t<25)	16 (t<25)	21 (50mm)		
Wear Resistant S10/200	0,44/0,55	0,60/1,00	0,06 Max	0,06 Max	0,10/0,35		0,03						Sold to Chemical Analysis Only					
Pressure Vessel BS1501/151/430A	0,25 Max	0,60/1,40	0,03 Max	0,0045 Max	0,35 Max			0,10 Max	0,30 Max	0,25 Max	0,30 Max		430/550	240 (16<t<40)		23		
BS1501/151/430A	0,25 Max	0,60/1,40	0,03 Max	0,03 Max	0,10/0,35			0,10 Max	0,30 Max	0,25 Max	0,30 Max			230 (40<t<63)		23		

CONVERSION FACTORS

CONVERSION FACTORS

KILOGRAMS PER SQUARE METRE KILOS PAR METRE CARRE QUILOS POR METRO CUADRADO	x	0.248	= POUNDS PER SQUARE FOOT = LIVRES PAR PIED CARRE = LIBRA POR PE CUADRADO
POUNDS PER SQUARE FOOT LIVRES PAR PIED CARRE LIBRA POR PE CUADRADO	x	4.882	= KILOGRAMS PER SQUARE METRE = KILOS PAR METRE CARRE = QUILOS POR METRO CUADRADO
GRAMS PER SQUARE METRE GRAMMES PER METRE CARRE GRAMAS POR METRO CUADRADO	x	0.02949	= OUNCES PER SQUARE YARD = ONCES PAR YARD CARRE = ONCA POR JARDA CUADRADO
OUNCES PER SQUARE YARD ONCES PAR YARD CARRE ONCA POR JARDA CUADRADO	x	33.9056	= GRAMS PER SQUARE METRE = GRAMMES PER METRE CARRE = GRAMAS POR METRO CUADRADO
KILOGRAMS PER SQUARE CENTIMETRE KILOS PAR CENTIMETRE CARRE QUILOS POR CENTIMETRO CUADRADO	x	14.223	= POUNDS PER SQUARE INCH = LIVRES PAR POUCE CARRE = LIBRA POR POLGADA CUADRADO
POUNDS PER SQUARE INCH LIVRES PAR POUCE CARRE LIBRA POR POLEGADA CUADRADO	x	0.0703	= KILOGRAMS PER SQUARE CENTIMETRE = KILOS PAR CENTIMETRE CARRE = QUILOS POR CENTIMETRO CUADRADO
TONS PER SQUARE INCH TONNES PAR POUCE CARRE TONELADA POR POLEGADA CUADRADO	x	1.5749	= KILOGRAMS PER SQUARE MILLIMETRE = KILOS PER MILLIMETRE CARRE = QUILOS POR CENTIMETRO CUADRADO

KILOGRAMS PER CUBIC CENTIMETRE KILOS PAR CENTIMETRE CUBE QUILOS POR CM CUBICO	x	36.1273	POUNDS PER CUBIC INCH LIVRES PAR OUNCE CUBE LIBRA POR POLGADA CUADRADO
KILOGRAMS PER CUBIC METRE KILOS PAR METRE CUBE QUILOS POR METRO CUBICO	x	0.06243	POUNDS PER CUBIC FOOT LIVRES PAR PIED CUBE LIBRA POR PE CUBICO
KILOGRAMS PER CUBIC METRE KILOS PAR METRE CUBE QUILOS POR METRO CUBICO	x	1.68555	POUNDS PER CUBIC YARD LIVRES PAR YARD CUBE LIBRA POR JARDA CUBICO
POUNDS PER CUBIC INCH LIVRES PAR OUNCE CUBE LIBRA POR POLEGADA CUADRADO	x	0.0277	KILOGRAMS PER CUBIC CENTIMETRE KILOS PAR CENTIMETRE CUBE QUILOS POR CM CUBICO
POUNDS PER CUBIC FOOT LIVRES PAR PIED CUBE LIBRA POR PE CUBICO	x	16.019	KILOGRAMS PER CUBIC METRE KILOS PAR METRE CUBE QUILOS POR METRO CUBICO
POUNDS PER CUBIC YARD LIVRES PAR YARD CUBE LIBRA POR JARDA CUBICO	x	0.5933	KILOGRAMS PER CUBIC METRE KILOS PAR METRE CUBE QUILOS POR METRO CUBICO

CONVERSION FACTORS

CONVERSION FACTORS

Inches / Pouces / Polgada	x	25.4	Millimetres / Millimetres / Millimetros
Millimetres / Millimetres / Millimetros	x	0.03937	Inches / Pouces / Polgada
Feet / Pieds / PE	x	0.3048	Metres / Metres / Metros
Yards / Yards / Jarda	x	0.9144	Metres / Metres / Metros
Metres / Metres / Metros	x	39.37	Inches / Pouces / Polgada
Metres / Metres / Metros	x	3.2808	Feet / Pieds / PE
Metres / Metres / Metros	x	1.0936	Yards / Yards / Jarda
Square Centimetres / Centimetres Carres / CM	x	0.1550	Square Inches / Pouces Carres / P
Square Inches / Pouces Carres / P	x	6.4516	Square Centimetres / Centimetres Carres / CM
Square Metres / Metres Carres / Metro	x	10.7639	Square Feet / Pieds Carres / PE
Square Metres / Metres Carres / Metro	x	1.1960	Square Yards / Yards Carres / Jarda
Square Yards / Yards Carres / Jarda	x	0.8361	Square Metres / Metres Carres / Metro
Square Feet / Pieds Carres / PE	x	0.0929	Square Metres / Metres Carres / Metro
Cubic Centimetres / Centimetres Carre / CM	x	0.0610	Cubic Inches / Pouces Cubes / Polgada
Cubic Inches / Pouces Cubes / Polgada	x	16.3871	Cubic Centimetres / Centimetres Carre / CM
Cubic Metres / Metres Cubes / Metro	x	35.3147	Cubic Feet / Pieds Cubes / PE3 Cubico
Cubic Feet / Pieds Cubes / PE3 Cubico	x	0.0283	Cubic Metres / Metres Cubes / Metro
Grams / Grammes / Grama	x	15.432	Grams / Grammes / Grama
Kilograms / Livres / Libra	x	2.2046	Pounds / Livres / Libra
Pounds / Livres / Libra	x	0.45359	Kilograms / Livres / Libra
Metric Tons (1000 kg) / Tonnes Metriques / Metrico	x	0.9842	Tons / Tonnes / Tonelada
Tons / Tonnes / Tonelada	x	1.016	Metric Tons (1000 kg) / Tonnes Metriques / Metrico

ERATI SERVICES

Erati Solutions provides the highest quality services in the market with the highest level of integrity and credibility.

Our priority above all, has always been satisfying our customers and partners in every step we make towards our goals.

We provide the following services:

- **Plate Processing;**
- **Railway Butt Welding;**
- **Mechanical & Piping Services;**
- **Plasma Cutting;**
- **Construction of Metal Structure;**
- **Industrial Maintenance.**



PLATE PROCESSING



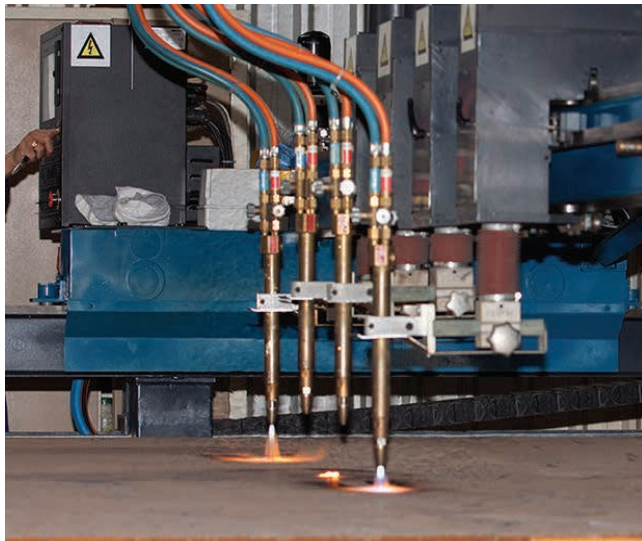
Guillotining

Guillotines are employed for straight line cutting of sheets and plates.

Thickness Range- 1mm to 12mm.

Sheet Size- 3000mm X 3000mm.

Cutting Tolerance- +1mm -1mm.



Bending

A bending service, which compliments profile cutting in many instances, is available with or without CNC control. This service is attractive to customers seeking a more complete pre-processed product.

Our process technicians are able to offer a high degree of quality and accuracy.

Thickness Range – 0.5mm to 150mm (Depending on material specification) Width – 6000mm.

Rolling

Modern rolling equipment is available for pre-processing of plate. CNC controls ensure a high degree of accuracy and quality. Pressure vessel and high strength steels.

Plate width – 3000mm



RAILWAY BUTT WELDING

RAILWAY BUTT WELDING

The welding process is in principle a regulated electric short circuit with the two rail ends functioning as D.C. poles. The high current produces an arc between the rail ends, the two rail cross-sections are heated to melting temperature due to the high input of current. During the following upset stroke the rails are pressed together under high pressure causing the ends to coalesce. The upset metal is trimmed off immediately after the upset stroke.

The result is an accurate weld without filler metal with a very small heat-affected zone and a more or less consistent progression of the hardening process with a favourable crystal-line structure.



MECHANICAL & PIPING SERVICE



MECHANICAL & PIPING SERVICES

A full package of mechanical and piping services for oil & gas industries, power boilers, mining industry, food processing, etc.

We follow international work procedures with qualified and experienced manpower and calibrated equipment. We have a Qualified Welding Procedure Specification for all range of diameters and thickness for carbon steel and stainless steel.

Our Mechanical and Piping Supervisors are trained and certified to supervise and inspect bolted flanged joints integrity.

We perform hydrostatic test when commissioning piping systems we fabricate and install.

PLASMA CUTTING

PLASMA CUTTING

Erati Solutions provides industry leading standard and high definition plasma cutting services. Plasma cutting is generally used for a metal thickness of about 1/2" and can be used for the high quality cutting of carbon steel, stainless steel and aluminum.

BENEFITS

- Speed
- Precision
- Versatility
- Cost-Effectiveness

APPLICATION

- Agriculture
- Automotive
- Commercial Construction
- Liquid Fertilizer
- Marine
- Medical
- Petrochemical
- Signage



CONSTRUCTION OF METAL STRUCTURES



CONSTRUCTION OF METAL STRUCTURES

Erati Solutions offers all kind of construction services of metal structures, ceilings, warehouses and industrial plants. We work from design to delivery of the finished construction project of metal structures, under the turnkey concept. We reduce costs and work from the design to the delivery of the fully completed construction project of metal structures, energy systems and materials.

We are specialists in Space and Design, provide High Quality in Construction of Metal Structures and Materials for industrial use, with acoustic isolation.

RAILWAY BUTT WELDING

INDUSTRIAL MAINTENANCE

The main goal of Erati Solutions in this service is to keep all industries assets in good condition and this at the lowest possible cost.

The capacity and the production quality of an organization depends on the availability and reliability of the equipment. There are several essential maintenance categories and they should all be considered as equally important in order to establish a valuable maintenance plan.

These are the maintenance of equipment and materials, the maintenance of buildings with paintings, amenities, the maintenance of exteriors, electrical maintenance including light, water, steam, energy generation, fire prevention and the cleaning floor maintenance.



ABBREVIATIONS

ABBREVIATIONS

ABBREVIATIONS	ENGLISH	FRANCAIS	PORTUGUES
HR	Hot Rolled	Lamine à Chaud	Lamindo a Quente
CR	Cold Rolled or Cold Reduced	Lamine à Froid ou de Cape a Friod	Reducao a Frio
P&O	Pickled & Oiled	Huilé	Oleado
TS	Tensile Strength	Force de Tension	Tensao de Rotura
YS	Yield Strength	Force de Rupture	Tensao de Cedencia
EI	Elongation	L'élongation	Alongamento
DIA	Diameter	Diamètre	Diametro
ID	Inside Diameter	Diamètre Intérieur	Diametro Interno
OD	Outside Diameter	Diamètre Extérieur	Diametro Externo
TCT	Total Coated Thickness		
G/SQM	Grams per Square Metre		Gramas por metros quadrados
Zn	Zinc		Zinco



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**erati
solutions**

Stainless Steel, Carbon Steel, Aluminium Steel and Services



We Guarantee Your Industry's Credibility!