

ZAMBEZI ROOFING & STEEL

Proudly Zambian,
Efficient, Flexible, Reliable



STEEL PRODUCT CATALOGUE

Product Specifications Overview

INTRODUCTION

Zambezi Roofing and Steel is a dynamic and versatile Steel Merchant and Steel Processor located in Lusaka, Zambia.

We have been operating since 2006 and have grown significantly in this period to be one of the leading Steel Merchants in Zambia.

Our management team has decades of practical and hands on experience in the Zambian market and are perfectly placed to provide you with a solution that exceeds your requirements.

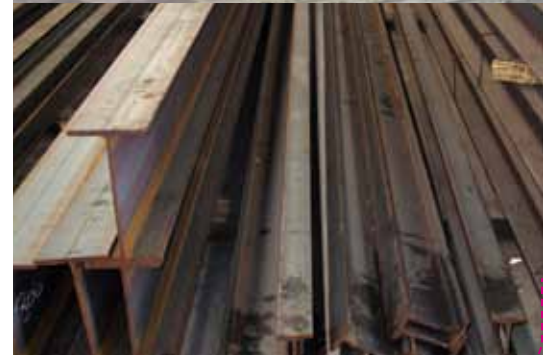
Our **#ProudlyZambian** mentality ensures that we not only provide you with world class solutions and service, we also have a major emphasis on developing and growing our country through the active development of our processing and manufacturing facilities in Zambia.

The following catalogue is by no means comprehensive and if there is an item not listed please do not hesitate to contact our dedicated and experience team who will gladly assist.






















Our relationships with world class steel manufacturers and processors as well as first class logistics partners will ensure that we offer a superior and consistent level of service.

Our vision is to become Zambia's #1 Steel Merchant measured on Service Levels and Quality and to build a World Class Steel Processing Centre in Zambia.

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COLD ROLLED SHEETS*

Length (mm) | Width (mm) | Weight in kg's / Thickness in mm

		0.4	0.5	0.6	0.7	0.8	0.9	1	1.2
1850	1225	7.29	9.11	10.93	12.75	14.57	16.40	18.22	21.86
2020	1225	7.96	9.95	11.94	13.92	15.91	17.90	19.89	23.87
2450	1225	9.65	12.06	14.48	16.89	19.30	21.71	24.13	28.95
3050	1225	12.01	15.02	18.02	21.02	24.03	27.03	30.04	36.04

Standard Size = 2450 x 1225mm

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*Various chemical and mechanical variations are available to suit your specific application. Please speak to your Technical Sales Representative to ensure you get the most suitable product for your needs.

COLD ROLLED
SHEETS



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HOT ROLLED SHEETS*

Length (mm)	Width (mm)	Weight in kg's / Thickness in mm					
----------------	---------------	----------------------------------	--	--	--	--	--

		1.6	2.0	2.5	3.0	3.5	4.0				
2450	1225	38.60	48.25	60.32	72.38	84.44	96.51				

Standard Size = 2450 x 1225mm

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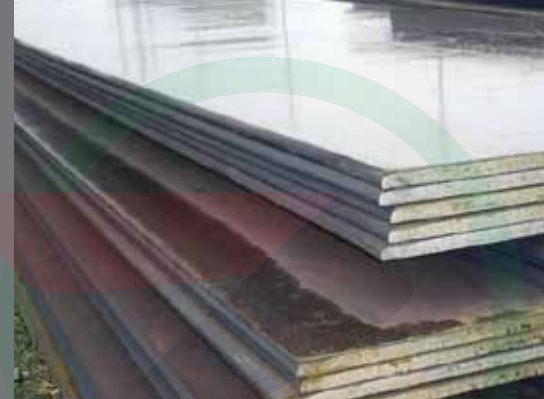
**HOT ROLLED
SHEETS**



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PLATE CQ & S355*



Length (mm) | Width (mm) | Weight In kg's / Thickness in mm

		4.5	5	6	8	10	12	16	20	25	30	40	50
2500	1200	105.98	117.75	141.30	188.40	235.50	282.60	376.80	471.00	588.75	706.50	942.00	1177.50
4000	2000	282.60	314.00	376.80	502.40	628.00	753.60	1004.80	1256.00	1570.00	1884.00	2512.00	3140.00
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
12000	3000	1271.70	1413.00	1695.60	2260.80	2826.00	3391.20	4521.60	5652.00	7065.00	8478.00		

Standard Size = 2500mm x 1200mm

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PLATE CQ
& S355



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ANGLE IRON*

Size
(mm)

Weight in kg's / Thickness in mm

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

Standard Lengths = 6 metres up to 100mm x 100mm and 13m metres above 100mm x 100mm

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CHANNEL IRON*

Size (mm)

Kg's per metre

76x38 Supalite	5.7
76x38 Standard	6.7
100x50 Supalite	8.88
100x50 Standard	10.73
120x55	13.55
127x64	14.93
140x60	16.22
152x76	17.91
160x65	19.12
178x54	14.55
180x70	22.27
200x75	25.30

Standard Lengths = 6 metres up to 200mm x 75mm and 13 metres above 200mm x 75mm

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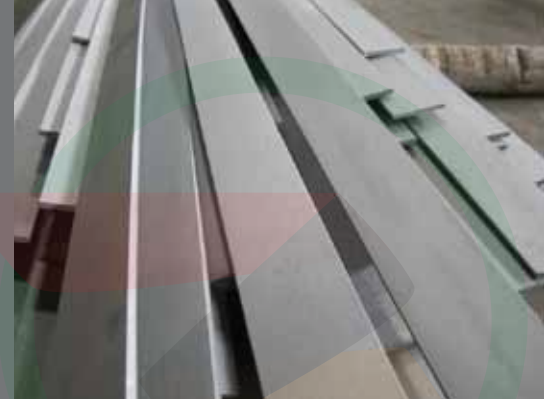
CHANNEL IRON



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FLAT BAR (Page 1)*



Size
(mm)

Weight in kg's / Thickness in mm

	3	4.5	5	6	8	10	12	16	20	25	30	40
20	0.48	0.71	0.79	0.94	1.26	1.57						
25	0.60		0.98	1.18	1.57	1.96	2.36					
30	0.72		1.18	1.41	1.88	2.36	2.83					
40	0.96	1.42	1.57	1.88	2.51	3.14	3.77	5.02	6.28	7.85		
50	1.21		1.96	2.36	3.14	3.93	4.71	6.28	7.85	9.81		
60				2.83	3.77	4.71	5.65	7.54	9.42			
65				3.06	4.08	5.10	6.12					
70				3.30	4.40	5.50	6.59	8.79	11.00			
80				3.77	5.02	6.28	7.54	10.05	12.56	15.70	18.84	25.12
90				4.24	5.65	7.07	8.48			17.70		

Standard Lengths = 6 metres

Continue to Pg2/.



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FLAT BAR (Page 2)*

Size
(mm)

Weight in kg's / Thickness in mm

	3	4.5	5	6	8	10	12	16	20	25	30	40
100				4.71	6.28	7.85	9.42	12.56	15.17	19.63	23.55	31.40
110				5.18		8.64	10.36					
130					8.16	10.21	12.25	16.33	20.41	25.51		
150					9.42	11.78	14.13	18.84	23.55	29.44	35.33	
180						14.13	16.19	22.61	28.26			
200						15.70	18.84	25.12	31.40	39.25		
250						19.60	23.60	31.40	39.25	49.06	58.88	
300						23.60	28.30					

Standard Lengths = 6 metres

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IPE STANDARD & AA*

Size (mm)	Kg's per metre	Dimensions in mm			
		Height	Width	Flange	Web
100x55 STD	8.10	100	55	4.1	5.7
120x64 STD	10.37	120	64	4.4	6.3
140x73 STD	12.89	140	73	4.7	6.9
160x82 STD	15.77	160	82	5	7.4
180x91 STD	18.80	180	91	5.3	8
200x100 STD	22.36	200	100	5.6	8.5
100x55 AA	6.72	97.6	55	3.6	4.5
120x64 AA	8.36	117	64	3.8	4.8
140x73 AA	10.05	136.6	73	3.8	5.2
160x82 AA	12.32	156.4	82	4	5.6
180x91 AA	14.94	176.4	91	4.3	6.2
200x100 AA	17.95	196.4	100	4.5	6.7

Standard Lengths = 13 metres

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UNIVERSAL BEAMS (Page 1)*

Size (mm)	Kg's per metre	Dimensions in mm			
		Height	Width	Flange	Web
203x133	25.1	203.2	133.2	7.8	5.7
203x133	30.0	206.8	133.9	9.6	6.4
254x146	31.1	251.4	146.1	8.6	6.0
254x146	37.0	256.0	146.4	10.9	6.3
254x146	43.0	259.6	147.3	12.7	7.2
305x102	24.8	305.1	101.6	7.0	5.8
305x102	28.2	308.7	101.8	8.8	6.0
305x102	32.8	312.7	102.0	10.8	6.6
305x165	40.3	303.4	165.0	10.2	6.0
305x165	46.1	306.6	165.7	11.8	6.7
305x165	54.0	310.4	166.9	13.7	7.9

Standard Lengths = 13 metres

Continue to Pg2/.



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UNIVERSAL BEAMS (Page 2)*

Size (mm)	Kg's per metre	Dimensions in mm			
		Height	Width	Flange	Web
356x171	45.0	351.4	171.1	9.7	7.0
356x171	51.0	355.0	171.5	11.5	7.4
356x171	57.0	358.0	172.2	13.0	8.1
356x171	67.1	363.4	173.2	15.7	9.1
406x140	39.0	398.0	141.8	8.6	6.4
406x140	46.0	403.2	142.2	11.2	6.8
406x178	54.1	402.6	177.7	10.9	7.7
406x178	60.1	406.4	177.9	12.8	7.9
406x178	67.1	409.4	178.8	14.3	8.8
406x178	74.2	412.8	179.5	16.0	9.5
457x191	67.1	453.4	189.9	12.7	8.5

Standard Lengths = 13 metres

Continue to Pg3/.



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UNIVERSAL BEAMS (Page 3)*

Size (mm)	Kg's per metre	Dimensions in mm			
		Height	Width	Flange	Web
457x191	74.3	457.0	190.4	14.5	9.0
457x191	82.0	460.0	191.3	16.0	9.9
457x191	89.3	463.4	191.9	17.7	10.5
457x191	98.3	467.2	192.8	19.6	11.4
533x210	82.2	528.3	208.8	13.2	9.6
533x210	92.1	533.1	209.3	15.6	10.1
533x210	101.0	536.7	210.0	17.4	10.8
533x210	109.0	539.5	210.8	18.8	11.6
533x210	122.0	544.5	211.9	21.3	12.7

Standard Lengths = 13 metres

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UNIVERSAL COLUMNS (Page 1)*

Size (mm)	Kg's per metre	Dimensions in mm			
		Height	Width	Flange	Web
152x152	23.00	152.4	152.2	6.8	5.8
152x152	30.00	157.6	152.9	9.4	6.5
152x152	37.00	161.8	154.4	11.5	8.0
203x203	46.10	203.2	203.6	11.0	7.2
203x203	52.00	206.2	204.3	12.5	7.9
203x203	60.00	209.6	205.8	14.2	9.4
203x203	71.00	215.8	206.4	17.3	10.0
203x203	86.10	222.2	209.1	20.5	12.7
254x254	73.10	254.1	254.6	14.2	8.6
254x254	88.90	260.3	256.3	117.3	10.3

Standard Lengths = 13 metres

Continue to Pg2/.



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UNIVERSAL COLUMNS (Page 2)*

Size (mm)	Kg's per metre	Dimensions in mm			
		Height	Width	Flange	Web
254x254	107.10	266.7	258.8	20.5	12.8
254x254	132.00	276.3	261.3	25.3	15.3
254x254	167.10	289.1	265.2	31.7	19.2
305x305	96.90	307.9	305.3	15.4	9.9
305x305	117.90	314.5	307.4	18.7	12.0
305x305	136.90	320.5	309.2	21.7	13.8
305x305	158.10	327.1	311.2	25.0	15.8
305x305	198.10	339.9	314.5	31.4	19.1
305x305	240.00	352.5	318.4	37.7	23.0

Standard Lengths = 13 metres

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TREAD PLATE / VASTRAAP / CHEQUER / FLOOR PLATE*

Length (mm)	Width (mm)	Thickness (mm)	Tread Height (mm)	Kg's per Each
2500	1200	3.0	4.6	77.994
2500	1200	4.5	6.1	113.34
2500	1200	6.0	7.6	148.65

Standard Dimensions are 2500mm x 1200mm



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SQUARE TUBING*

Outside Dimension (mm) | Wall thickness / Kilograms per Metre

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

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ROUND TUBING (Page 1)*



Outside Dimensions (mm)

Wall Thickness / Kg's per metre

	1.6	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0
15.8	0.56								
19.1	0.69	0.84							
21.4	0.78	0.96	1.17						
25.4	0.94	1.15	1.41						
26.9	1.00	1.23	1.50	1.77					
32	1.20	1.48	1.82	2.15					
34.1	1.28	1.58	1.95	2.30	2.64	2.97			
38.1	1.44	1.78	2.19	2.60	2.99	3.36			
42.8	1.63	2.01	2.48	2.94	3.39	3.83			
48.5	1.85	2.29	2.84	3.37	3.88	4.39	4.88		
50.8	1.94	2.41	2.98	3.54	4.08	4.62	5.14		
57.1	2.19	2.72	3.37	4.00	4.63	5.24	5.84		
60.3	2.32	2.88	3.56	4.24	4.90	5.55	6.19		

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Continue to Pg2/.



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ROUND TUBING (Page 2)*



Outside Dimensions (mm) | Wall Thickness / Kg's per metre

	1.6	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0
63.5	2.44	3.03	3.76	4.48	5.18	5.87	6.55		
76.2	2.94	3.66	4.54	5.42	6.27	7.12	7.96	8.78	21.67
88.9	3.44	4.29	5.33	6.35	7.37	8.37	9.37	10.34	12.27
101.6	3.95	4.91	6.11	7.29	8.47	9.63	10.78	11.91	14.14
114.3		5.54	6.89	8.23	9.56	10.88	12.18	13.48	16.02
127		6.17	7.68	9.17	10.66	12.13	13.59	15.04	17.90
139.7				10.11	11.76	13.39	15.00	16.61	19.78
152.4				11.05	12.85	14.64	16.41	18.17	21.66
165.1				11.99	13.95	15.89	17.82	19.74	23.54
177.8				12.93	15.04	17.14	19.23	21.31	25.42
193.70					16.42		21.00		27.77
219.1					18.61		23.81		31.53

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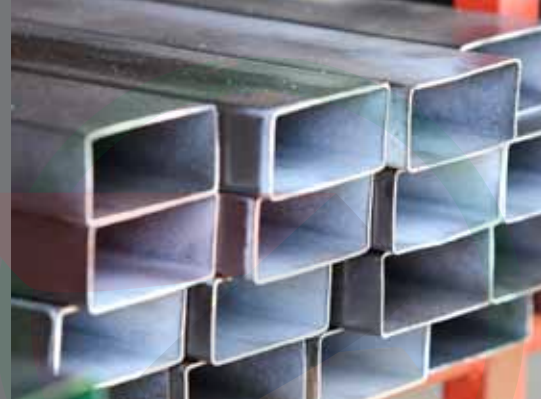
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RECTANGULAR TUBING (Page 1)*

Dimensions (mm)

Wall Thickness / Kilograms per metre

		1.6	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0
32	19	1.182	1.47							
38	19	1.44	1.78	1.84	2.47	2.83	3.19			
38	25	1.52	1.88	2.09	2.76					
50	25	1.85	2.24	2.33	3.36	3.88	4.38			
50	38	2.19	2.72	2.83	4.01	4.57	5.17			
63	25	2.19	2.72	3.37	4.01	4.57	5.17			
76	25	2.19	3.03	3.37	4.48	5.18	5.87			
60	40	2.44	3.03	3.76	4.48	5.18	5.87	6.55		

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Continue to Pg2/.



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RECTANGULAR TUBING (Page 2)*

Dimensions (mm)

Wall Thickness / Kilograms per metre

		1.6	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0
76	38	2.82	3.50	3.76	5.18	6.00	6.81	7.60		
76	50	3.12	3.66	4.35	5.70	6.60	7.50	8.38		
80	40	3.09	3.66	4.78	5.42	6.28	7.12	7.96		
100	50	3.70	4.61	4.55	6.81	7.90	8.98	10.04	11.10	16.03
120	60	3.69	5.54	5.70	8.24	9.57	10.88	12.19	13.48	17.91
120	80		6.17	6.89	9.18	10.66	12.14	13.60	15.05	21.67
160	80			7.68	11.06	12.85	14.64	16.41	18.18	

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EXPANDED METAL (Page 1)*



Reference

	Size of Diamond		Width of Strand	Material Thickness	Kg's per 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	

Standard Dimensions are 2500mm x 1200mm

Continue to Pg2/..

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EXPANDED METAL (Page 2)*



Reference

	Size of Diamond		Width of Strand	Material Thickness	Kg's per 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		

Standard Dimensions are 2500mm x 1200mm

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CONFORCE*

Reference

	Pitch of Wires (mm)		Diameter of Wires (mm)		Kg's per SQM	Kg's per Sheet	Sheets & Rolls
	Longitudinal	Cross	Longitudinal	Cross			
888	200	200	12.0	12.0	8.88	127.872	Sheets
746	200	200	11.0	11.0	7.46	107.424	Sheets
617	200	200	10.0	10.0	6.17	88.848	Sheets
500	200	200	9.0	9.0	5	72	Sheets
395	200	200	8.0	8.0	3.95	56.88	Sheets
311	200	200	7.1	7.1	3.11	44.784	Sheets
245	200	200	6.3	6.3	2.45	35.28	Sheets
193	200	200	5.6	5.6	1.93	27.792	Sheets & Rolls
100	200	200	4.0	4.0	1	14.4	Sheets & Rolls
257	150	150	5.0	5.0	2.06	29.664	Sheets & Rolls
86	150	150	3.55	3.55	1.04	14.976	Sheets & Rolls

Sheet Size = 6 x 2.4m (14.4 Square metres) and Roll Size = 60 x 2.4m (144 Square metres)

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CONFORCE



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LIPPED CHANNEL (Page 1)*

Dimensions (mm)

Weight in kg's / Thickness in mm

	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						

Standard Lengths = 12 metres, Non Standard Lengths rolled subject to volumes

Continue to Pg2/..



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LIPPED CHANNEL (Page 2)*

Dimensions (mm)

Weight in kg's / Thickness in mm

	2.0	2.5	3.0						
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						

Standard Lengths = 12 metres, Non Standard Lengths rolled subject to volumes

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HIGH TENSILE REINFORCING BAR (BS4449/SANS920)*



Diameter (mm)

Weight in Kg/Metre

Diameter (mm)	Weight in Kg/Metre
6	0.22
8	0.39
10	0.62
12	0.89
16	1.58
20	2.47
25	3.85
32	6.31
40	9.87

Standard Lengths = 12 metres

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HIGH TENSILE
REINFORCING BAR



ZAMBEZI ROOFING & STEEL

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ROUND BAR (MILD STEEL)*

Diameter (mm)

Weight in Kg/Metre

Diameter (mm)	Weight in Kg/Metre
6	0.22
8	0.39
10	0.62
12	0.89
16	1.58
20	2.47
25	3.85
32	6.31
40	9.87

Standard Lengths = 6 metres

*Various chemical and mechanical variations are available to suit your specific application. Please speak to your Technical Sales Representative to ensure you get the most suitable product for your needs.

**ROUND BAR
(MILD STEEL)**



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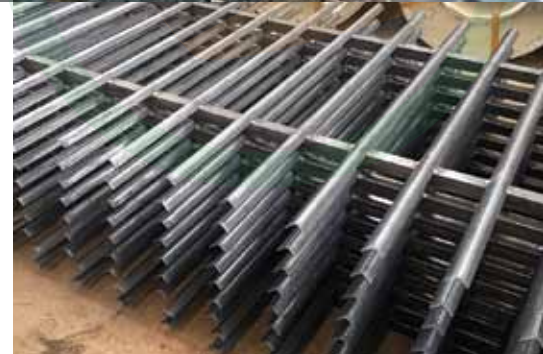


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PALISADE FENCING & ZAMBEZI TIGER SPIKE*

- Standard Panels =
3m wide by any height up to 3m
- Design available in Flat Top,
3 Spike & 7 Spike
- Sliding gates available



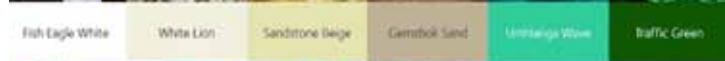
*Please speak to your Technical Sales Representative to ensure you get the most suitable product for your needs.

PALISADE FENCING &
ZAMBEZI TIGER SPIKE



ZAMBEZI ROOFING & STEEL

Proudly Zambian, Efficient, Flexible, Reliable

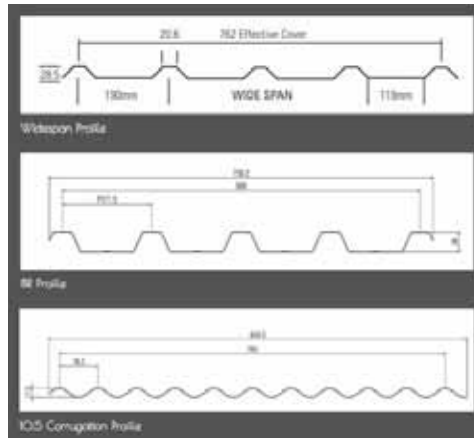


ROOFING & COLOURS*

Thickness in mm / Weight in kg's

0.3mm	2.23
0.4mm	2.97
0.5mm	3.72
0.58mm	4.31
0.8mm	5.95

- a. Any length up to 15 metres
- b. Cranking, Bullnosing and Ridges are all available



*Various chemical and mechanical variations are available to suit your specific application. Please speak to your Technical Sales Representative to ensure you get the most suitable product for your needs.



ZAMBEZI ROOFING & STEEL

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ADDITIONAL PRODUCTS & SERVICES*

- a. **Welding Rods**
- b. **Grinding and Cutting Discs**
- c. **Fasteners / Nuts & Bolts**
- d. **Wire Products (Fencing / Binding Wire / Razor Wire)**
- e. **Coil Processing (Blanking and Slitting)**
- f. **Special Steels (En8, En19 and En24)**
- g. **Window Sections (F7, LF7, RT6, FX7, LFX7 and RF4B)**
- h. **Hard Wearing / High Strength Steels (Bennox, HB400, HB500 and HB700)**
- i. **Conveyance Pipe (Galvanised Water Pipe, Borehole Casing and Seamless Tube)**
- j. **Plasma Cutting and Plate Rolling**

*Please speak to your Technical Sales Representative to ensure you get the most suitable product for your needs.



**MORE PRODUCTS
& SERVICES**

HELPFUL CALCULATIONS:

a. Mass of Sheets (up to 4mm Thickness)

i.e. $\text{Length} \times \text{Width} \times \text{Thickness} \times 8.039$

b. Mass of Plates (4.5mm and Thicker)

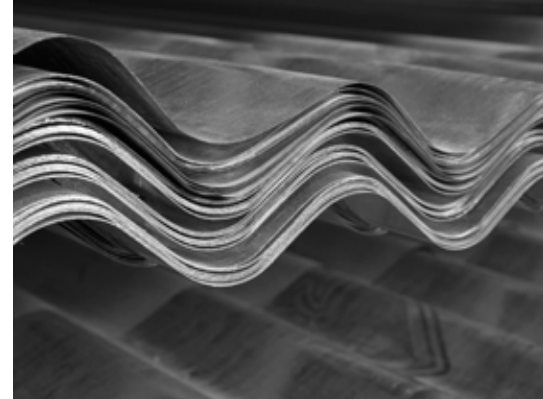
i.e. $\text{Length} \times \text{Width} \times \text{Thickness} \times 7.85$

c. Mass of Round Bar

i.e. $\text{Diameter} \times \text{Diameter} \times 0.00616$

d. Mass of Round Tube

i.e. $\text{OD} - \text{Wall Thickness} \times \text{Wall Thickness} \times 0.02566$




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