

**Assured Length, Thickness
and Quality as promised.**



SIMBACHUMA cold-formed steel sections commonly known as Hollow Sections / Round Tubes confirm to Rwanda Standards Boards specifications. The Hollow Sections and Round Tubes are manufactured at our Group companies in Kenya and Tanzania. The sections are manufactured a tube mill using high frequency induction welding technology. The strip is seam welded while round in shape and then gradually brought to the desired section in the sizing mill. The weld seam is put to a great amount of cold working while being sized. Each section passes through multiple stages of Quality testing.

Areas of Application: Fabrication, Construction, Furniture etc.

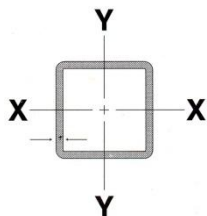
Length: Standard size - 6.0 Mtrs (Custom length can also be supplied for special orders).

SQUARE HOLLOW SECTIONS

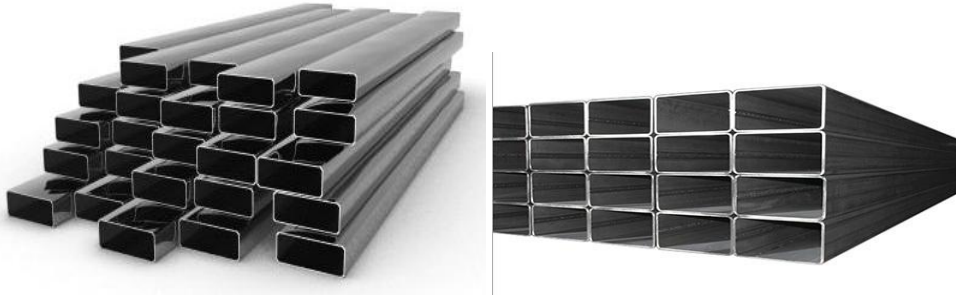


Technical specifications for Square Hollow Sections

SIZE	THICKNESS	WEIGHT	PIECE /M.T	SECT. AREA	MOMENT OF INERTIA		RADIUS OF GYRATION		SECTION MODULUS	
mm	mm	kg/m		(cm ²)	I _y (cm ⁴)	I _x (cm ⁴)	i _x (cm)	i _y (cm)	Z _X (Cm ³)	Z _Y (Cm ³)
12x12	1.0	0.37	450	0.44	0.08	0.08	0.45	0.45	0.12	0.12
	1.2	0.41	407	0.52	0.10	0.10	0.44	0.44	0.17	0.17
	1.5	0.49	340	0.63	0.11	0.11	0.43	0.43	0.18	0.18
16x16	1.0	0.46	362	0.60	0.22	0.22	0.61	0.61	0.27	0.27
	1.2	0.56	298	0.71	0.26	0.26	0.60	0.60	0.32	0.32
	1.5	0.68	245	0.87	0.30	0.30	0.59	0.59	0.38	0.38
20x20	1.0	0.61	273	0.76	0.46	0.46	0.78	0.78	0.46	0.46
	1.2	0.71	235	0.90	0.53	0.53	0.77	0.77	0.53	0.53
	1.5	0.87	192	1.11	0.64	0.64	0.76	0.76	0.64	0.64
	2.0	1.13	147	1.44	0.79	0.79	0.74	0.74	0.79	0.79
25x25	1.0	0.80	208	0.96	0.92	0.92	0.98	0.98	0.74	0.74
	1.2	0.90	185	1.14	1.08	1.08	0.97	0.97	0.86	0.86
	1.5	1.11	150	1.41	1.30	1.30	0.96	0.96	1.04	1.04
	2.0	1.44	116	1.84	1.63	1.63	0.94	0.94	1.30	1.30
	3.0	2.07	81	2.64	2.17	2.17	0.90	0.90	1.74	1.74
30x30	1.0	0.93	179	1.16	1.63	1.63	1.18	1.18	1.08	1.08
	1.2	1.08	154	1.38	1.91	1.91	1.17	1.17	1.27	1.27
	1.5	1.34	124	1.71	2.32	2.32	1.16	1.16	1.55	1.55
	2.0	1.75	95	2.24	2.94	2.94	1.14	1.14	1.96	1.96
	3.0	2.54	66	3.24	3.99	3.99	1.10	1.10	2.66	2.66
40x40	1.2	1.46	114	1.86	4.67	4.67	1.58	1.58	2.34	2.34
	1.5	1.81	92	2.31	5.71	5.71	1.57	1.57	2.86	2.86
	2.0	2.39	70	3.04	7.34	7.34	1.55	1.55	3.67	3.67
	3.0	3.48	48	4.44	10.20	10.20	1.51	1.51	5.10	5.10
50x50	1.5	2.28	73	2.91	11.42	11.42	1.98	1.98	4.57	4.57
	2.0	3.01	55	3.84	11.77	11.77	1.96	1.96	5.91	5.91
60x60	2.0	4.43	38	5.64	20.85	20.85	1.92	1.92	8.34	8.34
	3.0	5.37	31	6.84	37.14	37.14	2.33	2.33	12.38	12.38
	4.0	7.03	24	8.96	47.07	47.07	2.29	2.29	15.69	15.69
75x75	2.0	4.58	36	5.84	51.91	51.91	2.98	2.98	13.84	13.84
	3.0	6.78	25	8.64	74.78	74.78	2.94	2.94	19.94	19.94
	4.0	8.92	19	11.36	95.75	95.75	2.90	2.90	25.53	25.53
	6.0	13.00	13	16.56	132.40	132.40	2.83	2.83	35.31	35.31
100x100	2.0	6.15	27	7.84	125.54	125.54	4.00	4.00	25.11	25.11
	3.0	9.14	18	11.64	182.71	182.71	3.96	3.96	36.54	36.54
	4.0	12.18	14	15.36	236.43	236.43	3.92	3.92	47.27	47.27
	6.0	17.71	9	22.56	333.59	333.59	3.85	3.85	66.72	66.72
125x125	3.0	11.49	15	14.60	363.00	363.00	4.98	4.98	58.14	58.14
	4.0	15.20	11	19.36	473.00	473.00	4.94	4.94	75.67	75.67
	6.0	22.42	7	28.56	676.00	676.00	4.86	4.86	108.12	108.12
150x150	3.0	13.85	12	16.64	636.00	636.00	6.00	6.00	84.74	84.74
	4.0	18.34	9	23.36	831.00	831.00	5.96	5.96	110.74	110.74
	6.0	27.13	6	34.56	1196.00	1196.00	5.88	5.88	159.53	159.53
175x175	4.0	21.48	8	27.36	1334.00	1334.00	6.98	6.98	152.47	152.47
	6.0	31.84	5	40.56	1933.00	1933.00	6.90	6.90	220.93	220.93
200x200	4.0	24.62	7	31.36	2009.00	2009.00	8.00	8.00	200.87	200.87
	6.0	36.55	5	46.56	2923.35	2923.35	7.92	7.92	292.33	292.33

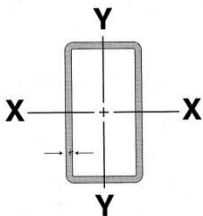


RECTANGULAR HOLLOW SECTIONS



Technical specifications for Rectangular Hollow Sections

SIZE	THICKNESS	WEIGHT	PIECE /M.T	SECT. AREA	MOMENT OF INERTIA		RADIUS OF GYRATION		SECTION MODULUS	
mm	mm	kg/m		(cm ²)	I _y (cm ⁴)	I _x (cm ⁴)	i _x (cm)	i _y (cm)	Z _X (Cm ³)	Z _Y (Cm ³)
40x20	1.2	1.08	154	1.38	2.87	0.96	1.44	0.83	1.44	0.96
	1.5	1.40	119	1.71	3.49	1.15	1.43	0.83	1.75	1.15
	2.0	1.76	95	2.24	4.44	1.44	1.14	0.80	2.22	1.43
40x25	1.2	1.18	141	1.50	3.32	1.59	1.49	1.03	1.66	1.27
	1.5	1.46	114	1.86	4.04	1.73	1.47	1.01	2.02	1.54
	2.0	1.91	87	2.44	5.17	2.43	1.45	0.99	2.59	1.94
	3.0	2.78	60	3.54	7.11	3.26	1.42	0.96	3.59	2.61
50x25	1.2	1.37	122	1.74	4.73	1.93	1.81	1.05	2.29	1.54
	1.5	1.69	99	2.15	7.00	2.43	1.80	1.04	2.80	1.87
	2.0	2.23	75	2.84	9.00	2.96	1.78	1.02	3.60	2.37
	3.0	3.25	51	4.14	12.55	3.99	1.74	0.96	5.02	3.19
60x40	1.2	1.84	91	2.34	12.12	6.48	2.27	1.66	4.04	3.24
	1.5	2.28	73	2.90	14.89	7.93	2.26	1.65	4.96	3.96
	2.0	3.01	55	3.83	19.31	10.22	2.24	1.63	6.43	5.11
	3.0	4.43	38	5.64	27.38	14.31	2.21	1.59	9.12	7.10
75x50	2.0	3.73	45	4.84	38.50	20.50	2.82	2.06	10.20	8.21
	3.0	5.60	30	7.14	55.30	29.10	2.78	2.02	14.70	11.60
	4.0	7.34	23	9.36	70.50	36.70	2.74	1.98	18.80	14.70
100x50	3.0	6.78	25	8.64	112.00	37.40	3.60	2.08	22.40	14.90
	4.0	8.92	19	11.30	144.00	47.30	3.56	2.04	28.80	18.90
120x60	2.0	5.53	30	7.04	135.58	46.24	4.39	2.56	22.60	15.41
	3.0	8.20	20	10.44	197.31	66.41	4.35	2.52	32.88	22.14
	4.0	10.80	15	13.76	255.20	84.77	4.31	2.48	42.53	28.26
	6.0	15.83	11	20.16	360.12	116.47	4.23	2.40	60.02	38.82
125x75	2.0	6.15	27	7.84	172.53	78.56	4.69	3.17	27.60	20.95
	3.0	9.14	18	11.64	251.74	113.68	4.65	3.13	40.28	30.32
	4.0	12.06	14	15.36	326.47	146.21	4.61	3.09	52.24	38.99
	6.0	17.71	9	22.56	463.18	203.99	4.53	3.01	74.11	54.40
150x50	3.0	9.14	18	11.60	311.00	54.00	5.18	2.15	41.50	21.60
	4.0	12.06	14	15.30	404.00	68.50	5.14	2.11	53.80	27.40
	6.0	17.71	9	22.56	574.03	93.15	5.04	2.03	76.54	37.26
150x100	3.0	11.49	15	14.64	473.00	253.00	5.69	4.16	63.1	50.76
	4.0	15.20	11	19.36	617.00	329.00	5.65	4.12	82.3	5.79
	6.0	22.42	7	28.56	885.00	466.00	5.57	4.04	118.0	3.31
200x50	2.0	7.72	22	9.84	447.00	49.40	6.74	2.24	44.70	9.74
	3.0	11.49	15	14.64	656.00	70.60	6.69	2.20	65.62	28.25
	4.0	15.20	11	19.36	856.00	89.80	6.65	2.15	85.61	35.92
	6.0	22.42	7	28.56	1229.00	122.40	6.56	2.07	122.92	48.95
200x100	3.0	13.85	12	17.64	947.00	324.00	7.33	4.28	94.72	64.78
	4.0	18.34	9	23.36	1240.00	421.00	7.29	4.24	124.03	84.15
	6.0	27.13	6	34.56	1794.00	599.00	7.20	4.16	179.39	119.81



ROUND TUBES

Technical Specifications:

SIZE	THICKNESS	WEIGHT	PIECE /M.T	SECT. AREA	MOMENT OF INERTIA	RADIUS OF GYRATION	SECTION MODULUS
mm	mm	kg/m		(cm ²)	I(cm ⁴)	i (cm)	ZX (Cm ³)
16	1.0	0.37	451	0.47	0.13	0.53	0.17
	1.2	0.44	379	0.56	0.15	0.52	0.19
	1.5	0.54	309	0.68	0.18	0.52	0.23
19	1.0	0.44	379	0.57	0.23	0.64	0.24
	1.2	0.53	315	0.67	0.27	0.63	0.28
	1.5	0.65	256	0.82	0.32	0.62	0.33
20	1.0	0.50	333	0.60	0.27	0.67	0.27
	1.2	0.59	283	0.71	0.31	0.67	0.31
	1.5	0.75	222	0.87	0.38	0.66	0.38
22	1.0	0.52	322	0.66	0.36	0.74	0.33
	1.2	0.62	269	0.78	0.43	0.74	0.39
	1.5	0.76	220	0.97	0.51	0.73	0.46
25	1.0	0.59	282	0.75	0.54	0.85	0.44
	1.2	0.70	237	0.90	0.64	0.84	0.51
	1.5	0.87	192	1.11	0.77	0.83	0.61
32	1.2	0.91	183	1.16	1.38	1.09	0.86
	1.5	1.13	148	1.44	1.68	1.08	1.05
33.5	1.2	0.96	174	1.22	1.59	1.14	0.95
	1.5	1.18	141	1.51	1.93	1.13	1.15
38	1.2	1.12	149	1.39	2.35	1.30	1.24
	1.5	1.38	121	1.72	2.87	1.29	1.51
42.25	1.2	1.21	137	1.55	3.26	1.45	1.54
	1.5	1.54	108	1.92	3.99	1.44	1.89
45	2	1.90	87	2.53	5.13	1.42	2.43
	1.2	1.30	129	1.65	3.96	1.55	1.76
	1.5	1.61	104	2.05	4.85	1.54	2.16
48.25	2	2.12	79	2.70	6.26	1.52	2.78
	1.2	1.39	120	1.77	4.91	1.66	2.04
	1.5	1.73	96	2.20	6.02	1.65	2.50
51	2	2.28	73	2.91	7.78	1.64	3.23
	1.5	1.87	89	2.33	7.15	1.75	2.80
60	2.0	2.42	69	3.08	9.25	1.73	3.63
	1.5	2.16	77	2.76	11.80	2.07	3.93
	2.0	2.86	58	3.64	15.34	2.05	5.11
	2.5	3.54	47	4.52	18.70	2.03	6.23
76	2.0	3.75	44	4.65	31.85	2.62	8.38
	2.5	4.53	37	5.77	39.02	2.60	10.27
89	2.0	4.29	39	5.47	51.74	3.08	11.63
	2.5	5.37	31	6.79	63.59	3.06	14.29



Technical Specifications for BLACK STEEL PIPES

TYPE	NOMINAL BORE		WALL THICKNESS	AP- PROX	WEIGHT OF BLACK PIPE PLAIN END		WEIGHT OF BLACK PIPE	
	mm	in	mm	mm	kg/m	m/M.T	kg/m	m/M.T
LIGHT " A"	15	½	2.00	21.3	0.95	1053	0.96	1042
	20	¾	2.35	26.3	1.41	709	1.42	704
	25	1	2.65	33.7	2.01	498	2.03	493
	32	1¼	2.65	42.4	2.58	388	2.61	383
	40	1½	2.90	48.3	3.25	308	3.29	304
	50	2	2.90	60.3	4.11	243	4.18	239
	65	2½	3.25	76.2	5.80	172	5.92	169
	80	3	3.25	88.9	6.81	147	6.98	143
	100	4	3.65	114.3	9.89	101	10.20	98
	MEDIUM " B"	15	½	2.65	21.3	1.22	820	1.23
20		¾	2.65	26.9	1.58	633	1.59	629
25		1	3.25	33.7	2.44	410	2.46	407
32		1¼	3.25	42.4	3.14	318	3.17	315
40		1½	3.25	48.3	3.61	277	3.65	274
50		2	3.65	60.3	5.10	196	5.17	193
65		2½	3.65	76.2	6.51	154	6.63	151
80		3	4.05	88.9	8.47	118	8.64	116
100		4	4.50	114.3	12.10	83	12.40	81
125		5	4.85	139.7	16.20	62	16.70	60
150	6	4.85	165.1	19.20	52	19.80	51	
HEAVY " C"	15	½	3.25	21.3	1.45	690	1.46	685
	20	¾	3.25	26.9	1.90	526	1.91	524
	25	1	4.05	33.7	2.97	337	2.99	334
	32	1¼	4.05	42.4	3.84	260	3.87	258
	40	1½	4.05	48.3	4.43	226	4.47	224
	50	2	4.50	60.3	6.17	162	6.24	160
	65	2½	4.50	76.2	7.90	127	8.02	125
	80	3	4.85	88.9	10.10	99	10.30	97
	100	4	5.40	114.3	14.40	69	14.70	68
	125	5	5.40	139.7	17.80	56	18.30	55
150	6	5.40	165.1	21.20	47	21.80	46	
200mm and 250 mm BLACK STEEL PIPES (Detailed specification on request)								
	200	8	5.2	219.1	27.71	36	28.56	35
	200	8	6	219.1	31.82	31	32.57	31
	250	10	6	267	39.09	26	40.01	25



MILD STEEL PLATES

The Plates are made from Hot Rolled coils (HRC) of highest quality that conform to International standards and quality parameters. Technical specifications for mild steel Plates are below:

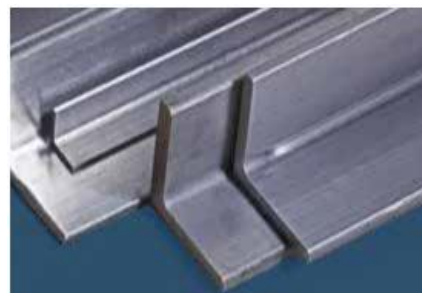


Size (Mtrs)	Width (mm)	Length (mm)	Thickness (mm)	Approx. Wt/Pc (Kg)
2X1	1000	2000	1.0	15.7
			1.2	18.8
			1.5	23.6
Size (Feet)	Width (mm)	Length (mm)	Thickness (mm)	Approx. Wt/Pc (Kg)
8 X 4	1220	2440	1.0	23.8
			1.2	28.6
			1.5	35.7
			2.0	45.5
			3.0	71.5
			4.0	91
			6.0	140
			8.0	187.2
			10.0	234
			12.0	294.7
			16.0	374.4
			20.0	468
			25.0	585
40.0	936			
50.0	1170			

EQUAL ANGLES

EQUAL ANGLES are used in Furniture, Beds, Racks & Shelves, and Doors etc.

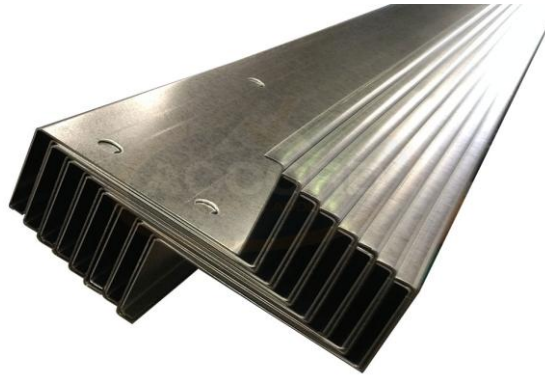
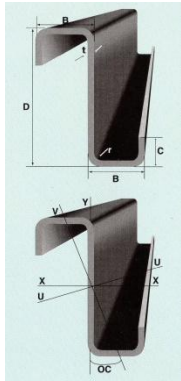
Size (mm)	Weight per pcs (Kg)
25X25X2.5	5.9
25X25X3.0	6.7
30 x 30 x 2.5	6.5
30X30X3.0	7.8
40X40X3.0	11.0
40X40X5.0	18.9
50X50X3.0	13.5
50X50X4.0	18.5
50X50X5.0	22.5
75X75X6.0	41.5



Z - Purlins

Z purlins are used as Purlins for commercial, Industrial and domestic structures.

Thickness above 2.0mm is also available based on requirement.

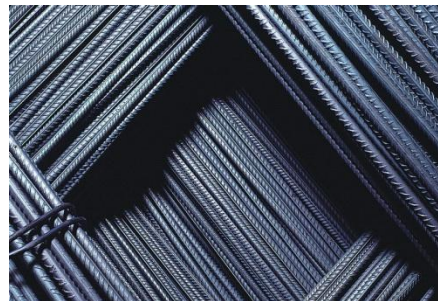


SIZE AxB	THICK NESS	WEIGHT	SECT. AREA	DIMENSIONS			MOMENT OF INERTIA		SECTION MODULUS		RADIUS OF GYRATION	
				A	B	C	I _x	I _y	Z _x	Z _y	i _x	i _y
mm	mm	kg/m		mm	mm	mm	cm ⁴	I _y (cm ⁴)	i _x (cm)	i _y (cm)	Z _x (cm ⁴)	Z _y (cm ⁴)
100X50	2	3.64	4.63	101.6	50.8	22.2	70.18	33.87	13.81	6.8	3.83	2.7
115X50	2	3.85	4.9	114.6	50.8	22.2	98.24	33.87	17.19	6.8	4.47	2.62
130X50	2	4.05	5.16	127	50.8	22.2	125.99	33.87	19.84	6.8	4.94	2.56
140X50	2	4.24	5.4	139.7	50.8	22.2	157.8	33.87	22.6	6.8	5.4	2.5
150X50	2	4.44	5.66	152.4	50.8	22.2	194.14	33.87	25.47	6.8	5.85	2.44
175X50	2	5.18	6.6	177.8	63.5	22.2	331.7	63.13	37.31	10.1	6.97	3.04
175X50	2.5	6.4	8.23	177.8	63.5	22.2	389.51	67.91	43.81	10.91	6.9	2.88

Rebars

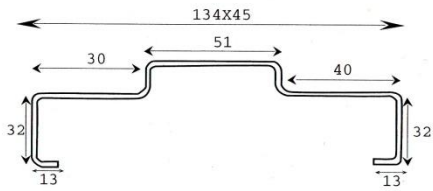
High Tensile Rebars are used in Reinforced concrete, Road construction etc.

Size (Length: 12 Mtrs)	Weight per pcs (Kg)
8 mm	4.76
10 mm	7.41
12 mm	10.70
14 mm	14.49
16 mm	18.87
20 mm	29.41
25mm	45.45



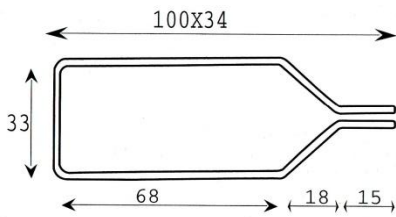
OPEN PROFILES

Door Frames – 6 Mtrs



DOOR FRAMES - 6MTRS

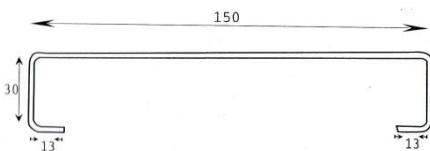
DIMENSIONS	Approx.wt/ pc kg
135x45x1.0MM	10.75
135x45x1.12MM	12.04
135x45x1.2MM	12.9
135x45x1.5MM	6.12
130x45x1.2MM	5.6
130x45x1.5MM	6



BOTTLE SECTION - 6MTRS

DIMENSIONS	Approx.wt/ pc kg
100x34x1.0MM	7
100x34x1.12MM	8
100x34x1.2MM	8.48
100x34x1.5MM	10.6

Fascia Board – 6 Mtrs



FACIAL BOARD - 6MTRS

DIMENSIONS	Approx.wt/ pc kg
150x30x1.0MM	10.8
150x30x1.12MM	12.14
150x30x1.2MM	13.01
150x30x1.5MM	16.27

Weld Mesh & BRC

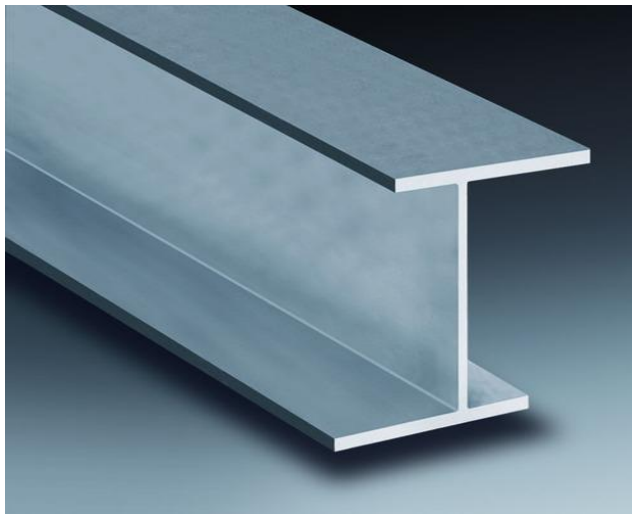
Reinforcement steel wire fabrics are manufactured in conformity with International standards. The profiles are commonly known as BRC and WELD MESH.



Heavy Structural's

I Beams

Size	Kg/Mtr
150 x 150mm x 12m	31.10
152 x 152mm x 12m	23.00
200 x 200mm x 12m	49.90
203 x 203mm x 12m	46.10
254 x 254mm x 12m	73.00
254 x 254mm x 12m	167.00
305 x 305mm x 12m	96.90
203 x 133mm x 12m	25.10
248 x 124mm x 12m	25.10
250 x 125mm x 12m	29.00
300 x 150mm x 12m	36.70
305 x 165mm x 12m	40.30
350 x 175mm x 12m	49.40



Other Sizes available on request.

C Channels

Size	Wt per Pcs (Kg)
Channel 100 x 50mm x 6m	56.16
Channel 127 x 64mm x 6m	89.4

