



Thomas Graham

Est. 1892

Steel Stockholders & Industrial Supplies



Issue 7
Steel Guide

www.thomas-graham.co.uk



Our Vision

- Is to be Britain's best Independent Provider of Steel & Industrial Supplies

Our Values

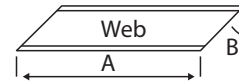
- We go the extra mile to care for our customers
- We are hardworking, friendly, knowledgeable & take responsibility to do the right thing
- We continually strive to improve in all that we do



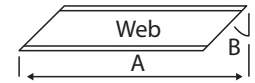
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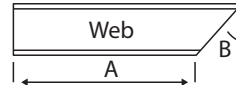
Mitre Guides



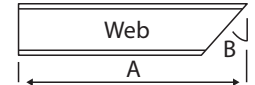
TG1A



TG1B



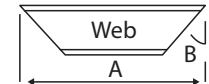
TG2A



TG2B

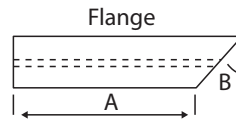


TG3A

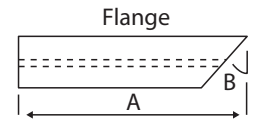


TG3B

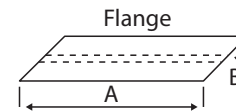
All the above are cut in 'H' position



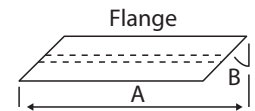
TG4A



TG4B



TG5A



TG5B

All the above are cut in 'I' position

To avoid misinterpretation please supply drawing



Flats and Angles

Flats and Angles

Heavy Section

Sheet and Plate

Mesh Products

Grade 50

Mild Steel Flats

Certified to British & European Standards

Size	Kg/m	Size	Kg/m	Size	Kg/m
10 x 3*	0.24	50 x 3	1.18	75 x 6	3.53
13 x 3*	0.32	50 x 5	1.96	75 x 8	4.71
13 x 5*	0.51	50 x 6	2.36	75 x 10	5.89
13 x 6*	0.61	50 x 8	3.14	75 x 12	7.07
16 x 3*	0.38	50 x 10	3.93	75 x 15	8.83
16 x 5*	0.63	50 x 12	4.71	75 x 20	11.80
20 x 3	0.47	50 x 15	5.89	75 x 25	14.70
20 x 5	0.79	50 x 20	7.85	75 x 30	17.70
20 x 6	0.94	50 x 25	9.81	75 x 50	29.40
20 x 8	1.26	50 x 30	11.78	80 x 3**	1.88
20 x 10	1.57	50 x 40	15.70	80 x 5	3.14
25 x 3	0.63	60 x 6	2.83	80 x 6	3.77
25 x 5	0.98	60 x 8	3.77	80 x 8	5.02
25 x 6	1.18	60 x 10	4.71	80 x 10	6.28
25 x 8	1.57	60 x 12	5.65	80 x 12	7.54
25 x 10	1.96	60 x 15	7.07	80 x 15	9.42
25 x 12	2.36	60 x 20	9.42	80 x 20	12.60
25 x 15	2.94	60 x 25	11.80	80 x 25	15.70
25 x 20	3.92	60 x 30	14.13	80 x 30	18.84
30 x 3	0.75	65 x 3**	1.53	80 x 40	25.12
30 x 5	1.18	65 x 5	2.55	80 x 50	31.40
30 x 6	1.41	65 x 6	3.06	90 x 6	4.24
30 x 8	1.89	65 x 8	4.08	90 x 8	5.65
30 x 10	2.36	65 x 10	5.10	90 x 10	7.07
30 x 12	2.83	65 x 12	6.12	90 x 12	8.48
30 x 15	3.53	65 x 15	7.65	90 x 15	10.60
30 x 20	4.71	65 x 20	10.21	90 x 20	14.13
35 x 6	1.65	65 x 25	12.76	90 x 25	17.70
35 x 10	2.75	65 x 30	15.31	90 x 30	21.20
40 x 3	0.94	65 x 40	20.41	100 x 3**	2.36
40 x 5	1.57	65 x 50	25.52	100 x 5	3.93
40 x 6	1.88	70 x 5	2.76	100 x 6	4.71
40 x 8	2.51	70 x 6	3.30	100 x 8	6.28
40 x 10	3.14	70 x 8	4.40	100 x 10	7.85
40 x 12	3.77	70 x 10	5.50	100 x 12	9.42
40 x 15	4.71	70 x 12	6.59	100 x 15	11.80
40 x 20	6.28	70 x 15	8.24	100 x 20	15.70
40 x 25	7.85	70 x 20	11.00	100 x 25	19.63
45 x 6	2.12	70 x 25	13.74	100 x 30	23.60
45 x 8	2.83	70 x 30	16.50	100 x 40	31.40
45 x 10	3.53	70 x 50	27.48	100 x 50	39.30
45 x 12	4.24			110 x 6	5.18
				110 x 8	6.91
				110 x 10	8.64
				110 x 12	10.40
				110 x 15	13.00
				110 x 20	17.30

Mild Steel Flats

Certified to British & European Standards

Size	Kg/m	Size	Kg/m
120 x 6	5.65	180 x 6	8.48
120 x 8	7.54	180 x 8	11.30
120 x 10	9.42	180 x 10	14.13
120 x 12	11.30	180 x 12	17.00
120 x 15	14.13	180 x 15	21.20
120 x 20	18.84	180 x 20	28.30
130 x 3**	3.83	180 x 25	35.33
130 x 5	5.10	200 x 6	9.42
130 x 6	6.12	200 x 8	12.60
130 x 8	8.16	200 x 10	15.70
130 x 10	10.21	200 x 12	18.84
130 x 12	12.25	200 x 15	23.60
130 x 15	15.31	200 x 20	31.40
130 x 20	20.41	200 x 25	39.30
130 x 25	25.51	220 x 10	17.30
140 x 6	6.60	220 x 12	20.72
140 x 8	8.92	220 x 15	25.91
140 x 10	11.23	220 x 20	34.54
140 x 12	13.18	220 x 25	43.20
140 x 15	16.48	250 x 6	11.80
140 x 20	22.00	250 x 8	15.70
150 x 3**	3.54	250 x 10	19.60
150 x 5	5.89	250 x 12	23.60
150 x 6	7.07	250 x 15	29.44
150 x 8	9.42	250 x 20	39.25
150 x 10	11.80	250 x 25	49.10
150 x 12	14.30	300 x 6	14.13
150 x 15	17.70	300 x 8	18.84
150 x 20	23.60	300 x 10	23.60
150 x 25	29.44	300 x 12	28.30
150 x 30	35.40	300 x 15	35.33
150 x 50	58.90	300 x 20	47.10
160 x 10	12.56	300 x 25	58.88
160 x 12	15.07	300 x 30	70.65
160 x 15	18.80	350 x 10	27.48
160 x 20	25.12	350 x 12	33.00
160 x 25	31.40	400 x 10	31.40
		400 x 12	37.68
		400 x 15	47.10
		400 x 20	62.8
		400 x 25	78.51

Available in 6.1-6.4m random lengths

* Denotes 4m lengths

** Denotes 3m lengths

*** Denotes certain sizes available ready galvanised

Mild Steel Tees

25 x 25 x 3

40 x 40 x 5

50 x 50 x 6

Available in 6.1m lengths

Equal & Unequal Angles

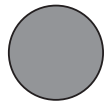
Certified to British & European Standards

Size	Kg/m	Size	Kg/m
Equal Angles			
13 x 13 x 3	0.58	200 x 200 X 16	48.50
16 x 16 x 3	0.70	200 x 200 X 20	59.90
20 x 20 x 3	0.88	200 x 200 X 24	71.10
25 x 25 x 3	1.11	Unequal Angles	
25 x 25 x 5	1.77	40 x 25 x 4	1.91
30 x 30 x 3	1.36	50 x 40 x 5	3.50
30 x 30 x 5	2.18	50 x 40 x 6	4.33
30 x 30 x 6	2.65	60 x 30 x 5	3.37
40 x 40 x 3	1.84	60 x 30 x 6	3.99
40 x 40 x 4	2.42	65 x 50 x 5	4.35
40 x 40 x 5	2.97	65 x 50 x 6	5.16
40 x 40 x 6	3.52	65 x 50 x 8	6.75
45 x 45 x 5	3.38	75 x 50 x 6	5.65
50 x 50 x 3	2.33	75 x 50 x 8	7.39
50 x 50 x 5	3.77	75 x 50 x 10	9.27
50 x 50 x 6	4.47	80 x 60 x 6	6.37
50 x 50 x 8	5.82	80 x 60 x 8	8.34
60 x 60 x 5	4.57	100 x 50 x 6	7.00
60 x 60 x 6	5.42	100 x 65 x 7	8.77
60 x 60 x 8	7.09	100 x 65 x 8	9.94
60 x 60 x 10	8.69	100 x 65 x 10	12.30
70 x 70 x 6	6.38	100 x 75 x 8	10.60
70 x 70 x 8	8.36	100 x 75 x 10	13.00
70 x 70 x 10	10.30	100 x 75 x 12	15.40
75 x 75 x 6	6.82	125 x 75 x 8	12.20
75 x 75 x 8	8.96	125 x 75 x 10	15.00
75 x 75 x 10	11.05	125 x 75 x 12	17.80
80 x 80 x 6	7.34	150 x 75 x 10	17.00
80 x 80 x 8	9.63	150 x 75 x 12	20.20
80 x 80 x 10	11.90	150 x 75 x 15	24.80
90 x 90 x 6	8.30	150 x 90 x 10	18.20
90 x 90 x 8	10.90	150 x 90 x 12	21.60
90 x 90 x 10	13.40	150 x 90 x 15	26.60
90 x 90 x 12	15.90	200 x 100 x 10	23.00
100 x 100 x 8	12.20	200 x 100 x 12	27.30
100 x 100 x 10	15.00	200 x 100 x 15	33.70
100 x 100 x 12	17.80	200 x 150 x 12	32.00
100 x 100 x 15	21.90	200 x 150 x 15	39.60
120 x 120 x 8	14.70	200 x 150 x 18	47.10
120 x 120 x 10	18.20		
120 x 120 x 12	21.60		
150 x 150 x 10	23.00		
150 x 150 x 12	27.30		
150 x 150 x 15	33.80		
150 x 150 x 18	40.10		

Lengths available from 6.1m-6.4m random lengths
Certain sizes available ready galvanised

Rounds

Certified to British & European Standards



Size - mm	Kg/m	Size - mm	Kg/m
6	0.22	105	68.00
8	0.40	115	81.50
10	0.61	120	88.00
12	0.90	125	96.30
16	1.58	130	104.00
19	2.30	135	112.00
20	2.47	140	121.00
22	2.98	145	130.00
25	3.85	150	139.00
30	5.55	155	148.00
32	6.31	160	158.00
35	7.55	165	168.00
38	8.90	170	178.00
40	9.86	180	200.00
45	12.50	200	247.00
50	15.40	210	272.00
55	18.70	220	298.00
60	22.20	230	326.00
65	26.00	240	356.00
70	30.20	250	385.00
75	34.70	260	417.00
80	38.50	270	448.00
85	44.50	280	483.00
90	49.90	300	555.00
95	55.60		
100	61.60		

Lengths available from 6.1m
100mm+ - 3m random lengths
Certain sizes available in black EN8 & EN24T

Squares

Certified to British & European Standards



Size - mm	Kg/m	Size - mm	Kg/m
8	0.50		
10	0.79	40	12.60
12	1.13	45	15.90
16	2.01	50	19.62
20	3.14	65	33.16
22	3.80	75	44.20
25	4.91	80	50.20
30	7.07	100	78.60

Lengths available from 6.1m-6.4m
random lengths

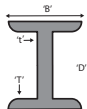


Heavy Section



Joists

Certified to British & European Standards

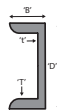


Designation	Thickness				
	Serial Size mm	Mass per metre Kg/m	Depth of Section 'D' mm	Width of Section 'B' mm	Web 't' mm
100 x 100	20.4	100.0	100.0	6.0	10.0
102 x 44	7.5	101.6	44.5	4.3	6.1

Standard Mill Lengths available, also cut to size

Channels

Certified to British & European Standards

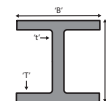


Designation	Thickness				
	Serial Size mm	Mass per metre Kg/m	Depth of Section 'D' mm	Width of Section 'B' mm	Web 't' mm
Tapered Flange					
40 x 20	2.61				5.0
51 x 25	3.48				5.0
51 x 38	5.81				6.4
76 x 38	6.70	76.2	38.1	5.1	6.8
Parallel Flange					
100 x 50	10.20	100.0	50.0	5.0	8.5
125 x 65	14.80	125.0	65.0	5.5	9.5
150 x 75	17.90	150.0	75.0	5.5	10.0
150 x 90	23.90	150.0	90.0	6.5	12.0
180 x 75	20.30	180.0	75.0	6.0	10.5
180 x 90	26.10	180.0	90.0	6.5	12.5
200 x 75	23.40	200.0	75.0	6.0	12.5
200 x 90	29.70	200.0	90.0	7.0	14.0
230 x 75	25.70	230.0	75.0	6.5	12.5
230 x 90	32.20	230.0	90.0	7.5	14.0
260 x 75	27.60	260.0	75.0	7.0	12.0
260 x 90	34.80	260.0	90.0	8.0	14.0
300 x 90	41.40	300.0	90.0	9.0	15.5
300 x 100	45.50	300.0	100.0	9.0	16.5
380 x 100	54.00	380.0	100.0	9.5	17.5
430 x 100	64.40	430.0	100.0	11.0	19.0

Standard Mill Lengths available, also cut to size

Universal Columns

Certified to British & European Standards

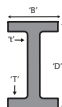


Designation	Thickness					
	Serial Size mm	Mass per metre Kg/m	Depth of Section 'D' mm	Width of Section 'B' mm	Web 't' mm	Flange 'T' mm
152 x 152	23.0	152.4	152.2	5.8	6.8	
	30.0	157.6	152.9	6.5	9.4	
	37.0	161.8	154.4	8.0	11.5	
203 x 203	46.1	203.2	203.6	7.2	11.0	
	52.0	206.2	204.3	7.9	12.5	
	60.0	209.6	205.8	9.4	14.2	
	71.0	215.8	206.4	10.0	17.3	
	86.1	222.2	209.1	12.7	20.5	
254 x 254	73.1	254.1	254.6	8.6	14.2	
	88.9	260.3	256.3	10.3	17.3	
	107.1	266.7	258.8	12.8	20.5	
	132.0	276.3	261.3	15.3	25.3	
	167.1	289.1	265.2	19.2	31.7	
	305 x 305	96.9	307.9	305.3	9.9	15.4
		117.9	314.5	307.4	12.0	18.7
136.9		320.5	309.2	13.8	21.7	
158.1		327.1	311.2	15.8	25.0	
198.1		339.9	314.5	19.1	31.4	
240.0		352.5	318.4	23.0	37.7	
356 x 368	282.9	365.3	322.2	26.8	44.1	
	129.0	355.6	368.6	10.4	17.5	
	152.9	362.0	370.5	12.3	20.7	
	177.0	368.2	372.6	14.4	23.8	
356 x 406	201.9	374.6	374.7	16.5	27.0	
	235.1	381.0	394.8	18.4	30.2	
	287.1	393.6	399.0	22.6	36.5	
	339.9	406.4	403.0	26.6	42.9	
	393.0	419.0	407.0	30.6	49.2	
	467.0	436.6	412.2	35.8	58.0	
	551.0	455.6	418.5	42.1	67.5	

Standard Mill Lengths available, also cut to size
Shotblasting and Priming available in weldable primer

Universal Beams

Certified to British & European Standards

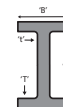


Designation	Thickness				
	Serial Size mm	Mass per metre Kg/m	Depth of Section 'D' mm	Width of Section 'B' mm	Web 't' mm
127 x 76	13.0	127.0	76.0	4.0	7.6
152 x 89	16.0	152.4	88.7	4.5	7.7
178 x 102	19.0	177.8	101.2	4.8	7.9
203 x 102	23.1	203.2	101.8	5.4	9.3
203 x 133	25.1	203.2	133.2	5.7	7.8
	30.0	206.8	133.9	6.4	9.6
254 x 102	22.0	254.0	101.6	5.7	6.8
	25.2	257.2	101.9	6.0	8.4
	28.3	260.4	102.2	6.3	10.0
254 x 146	31.1	251.4	146.1	6.0	8.6
	37.0	256.0	146.4	6.3	10.9
	43.0	259.6	147.3	7.2	12.7
305 x 102	24.8	305.1	101.6	5.8	7.0
	28.2	308.7	101.8	6.0	8.8
	32.8	312.7	102.4	6.6	10.8
305 x 127	37.0	304.4	123.3	7.1	10.7
	41.9	307.2	124.3	8.0	12.1
	48.1	311.0	125.3	9.0	14.0
305 x 165	40.3	303.4	165.0	6.0	10.2
	46.1	306.6	165.7	6.7	11.8
	54.0	310.4	166.9	7.9	13.7
356 x 127	33.1	349.0	125.4	6.0	8.5
	39.1	353.4	126.0	6.6	10.7
356 x 171	45.0	351.4	171.1	7.0	9.7
	51.0	355.0	171.5	7.4	11.5
	57.0	358.0	172.2	8.1	13.0
	67.1	363.4	173.2	9.1	15.7
406 x 140	39.0	398.0	141.8	6.4	8.6
	46.0	403.2	142.2	6.8	11.2
406 x 178	54.1	402.6	177.7	7.7	10.9
	60.1	406.4	177.9	7.9	12.8
	67.1	409.4	178.8	8.8	14.3
	74.2	412.8	179.5	9.5	16.0

Standard Mill Lengths available, also cut to size
Shotblasting and Priming available in weldable primer

Universal Beams

Certified to British & European Standards



Designation	Thickness				
	Serial Size mm	Mass per metre Kg/m	Depth of Section 'D' mm	Width of Section 'B' mm	Web 't' mm
457 x 152	52.3	449.8	152.4	7.6	10.9
	59.8	454.6	152.9	8.1	13.3
	67.2	458.0	153.8	9.0	15.0
	74.2	462.0	154.4	9.6	17.0
	82.1	465.8	155.3	10.5	18.9
457 x 191	67.1	453.4	189.9	8.5	12.7
	74.3	457.0	190.4	9.0	14.5
	82.0	460.0	191.3	9.9	16.0
	89.3	463.4	191.9	10.5	17.7
	98.3	467.2	192.8	11.4	19.6
533 x 210	82.2	528.3	208.8	9.6	13.2
	92.1	533.1	209.3	10.1	15.6
	101.0	536.7	210.0	10.8	17.4
	109.0	539.5	210.8	11.6	18.8
	122.0	544.5	211.9	12.7	21.3
610 x 229	101.2	602.6	227.6	10.5	14.8
	113.0	607.6	228.2	11.1	17.3
	125.1	612.2	229.0	11.9	19.6
	139.9	617.2	230.2	13.1	22.1
610 x 305	149.1	612.4	304.8	11.8	19.7
	179.0	620.2	307.1	14.1	23.6
	238.1	635.8	311.4	18.4	31.4
686 x 254	125.2	677.9	253.0	11.7	16.2
	140.1	683.5	253.7	12.4	19.0
	152.4	687.5	254.5	13.2	21.0
	170.2	692.9	255.8	14.5	23.7
762 x 267	133.9	750.0	264.4	12.0	15.5
	146.9	754.0	265.2	12.8	17.5
	173.0	762.2	266.7	14.3	21.6
	196.8	769.8	268.0	15.6	25.4
838 x 292	175.9	834.9	291.7	14.0	18.8
	193.8	840.7	292.4	14.7	21.7
	226.5	850.9	293.8	16.1	26.8
914 x 305	200.9	903.0	303.3	15.1	20.2
	224.2	910.4	304.1	15.9	23.9
	253.4	918.4	305.5	17.3	27.9
	289.1	926.6	307.7	19.5	32.0
914 x 419	343.3	911.8	418.5	19.4	32.0
	388.0	921.0	420.5	21.4	36.6

Standard Mill Lengths available, also cut to size



Sheet and Plate

Mild Steel Plates

Certified to British & European Standards

Thickness mm	Standard Size	Weight Per Plate	Thickness mm	Standard Size	Weight Per Plate
3	2000 x 1000	48	20	2000 x 1000	320
	2500 x 1250	75		2500 x 1250	500
	3000 x 1500	108		3000 x 1500	720
	4000 x 2000	192		4000 x 2000	1280
4	2000 x 1000	64	25	2000 x 1000	400
	2500 x 1250	100		2500 x 1250	625
	3000 x 1500	144		3000 x 1500	900
	4000 x 2000	256		4000 x 2000	1600
5	2000 x 1000	80	30	2000 x 1000	480
	2500 x 1250	125		2500 x 1250	750
	3000 x 1500	180		3000 x 1500	1080
	4000 x 2000	320		4000 x 2000	1920
6	2000 x 1000	96	35	2000 x 1000	560
	2500 x 1250	150		2500 x 1250	875
	3000 x 1500	216		3000 x 1500	1260
	4000 x 2000	384		4000 x 2000	2240
8	2000 x 1000	128	40	2000 x 1000	640
	2500 x 1250	200		2500 x 1250	1000
	3000 x 1500	288		3000 x 1500	1440
	4000 x 2000	512		4000 x 2000	2560
10	2000 x 1000	160	50	2000 x 1000	800
	2500 x 1250	250		2500 x 1250	1250
	3000 x 1500	360		3000 x 1500	1800
	4000 x 2000	640		4000 x 2000	3200
12.5	2000 x 1000	200	60	2000 x 1000	960
	2500 x 1250	313		2500 x 1250	1500
	3000 x 1500	450		3000 x 1500	2160
	4000 x 2000	800		4000 x 2000	3840
15	2000 x 1000	240			
	2500 x 1250	375			
	3000 x 1500	540			
	4000 x 2000	960			

Mild Steel Floor Plates

Certified to British & European Standards

Thickness mm	Standard Size	Weight Per Sheet (Kg)	Thickness mm	Standard Size	Weight Per Sheet (Kg)
3.0	2000 x 1000	53	8.0	2000 x 1000	135
	o/p 2500 x 1250	82		2500 x 1250	210
	3000 x 1500	118		3000 x 1500	303
4.5	2000 x 1000	76	10.0	2000 x 1000	170
	o/p 2500 x 1250	119		2500 x 1250	263
	3000 x 1500	171			
6.0	2000 x 1000	101			
	o/p 2500 x 1250	158			
	3000 x 1500	227			

Please note that the thickness is measured on the plain of the plate

Open Steel Flooring

Certified to British & European Standards

Bearer Bar Section Size - mm	Pattern (Spacing)	Self Colour	Galvanised
25 x 3	41/100	*	*
25 x 5	41/100	*	*
30 x 3	41/100	*	
30 x 5	41/100	*	*
40 x 5	41/100	*	
25 x 5	41/100	Serrated	
*Ex Stock			

Also available from stock:

*Flowforge clips

*Galvanised stair treads:

800mm x 292mm (30 x 3mm)

1000mm x 292mm (30 x 3mm)

We also supply serrated panels and accessories to order

Mesh Products

Mild Steel Sheets

Certified to British & European Standards

Thickness mm	Standard Size	Weight Per Sheet (Kg)	Thickness mm	Standard Size	Weight Per Sheet (Kg)
0.8	2000 x 1000	13	1.6	2000 x 1000	26
	2500 x 1250	20		2500 x 1250	40
				3000 x 1500	57
1.0	2000 x 1000	16	2.0	2000 x 1000	32
	2500 x 1250	25		2500 x 1250	50
1.2	2000 x 1000	19	2.5	3000 x 1500	71
	2500 x 1250	30		2000 x 1000	40
				2500 x 1250	62

Galvanised Sheets

Certified to British & European Standards

Thickness mm	Standard Size	Weight Per Sheet (Kg)	Thickness mm	Standard Size	Weight Per Sheet (Kg)
0.6			1.6	2000 x 1000	26
	2500 x 1250	15		2500 x 1250	40
				3000 x 1500	58
0.8	2000 x 1000	13	2.0	2000 x 1000	32
	2500 x 1250	20		2500 x 1250	50
1.0	2000 x 1000	16	2.5	3000 x 1500	72
	2500 x 1250	25		2000 x 1000	40
	3000 x 1500	36		2500 x 1250	63
1.2	2000 x 1000	20	3.0	2000 x 1000	48
	2500 x 1250	30		2500 x 1250	75
	3000 x 1500	44		3000 x 1500	108

Galvanised Corrugated Sheets

8/3 x 24g - 5' - 13' inclusive
& 5', 8', 9'6", 10' on clear rooflights

Longer lengths available to order

Expanded Metal

Certified to British & European Standards

Ref.	Description
1279F	Exp. Metal LW= 25mm, SW= 6mm x 1.52mm (8' x 4')
1281F	Exp. Metal LW= 24mm, SW= 8mm x 1.47mm (8' x 4')
1292	Exp. Metal LW= 30mm, SW= 20mm x 2.5mm (4' x 5')
1585F	Exp. Metal LW= 33mm, SW= 12mm x 1.14mm (8' x 4')
1585F	Galv. Exp. Metal LW= 33mm, SW= 12mm x 1.14mm (8' x 4')
1595	Exp. Metal LW= 38mm, SW= 16mm x 1.6mm (8' x 4')
2073F	Galv. Exp. Metal LW= 42mm, SW= 14mm x 2.69mm (8' x 4')
2074F	Exp. Metal LW= 39mm, SW= 12mm x 2.74mm (8' x 4')
2076F	Exp. Metal LW= 43mm, SW= 18mm x 1.14mm (8' x 4')
2077F	Exp. Metal LW= 43mm, SW= 17mm x 1.45mm (8' x 4')
2088	Exp. Metal LW= 50mm, SW= 20mm x 3.0mm (8' x 4')
2091	Exp. Metal LW= 50mm, SW= 22mm x 2.5mm (8' x 4')
220	Exp. Metal LW= 6mm, SW= 3.5mm x 6.0mm (4' x 4')
3092	Exp. Metal LW= 76mm, SW= 33mm x 3.0mm (8' x 4')
3393F	Exp. Metal LW= 77mm, SW= 27mm x 2.82mm (8' x 4')
3396	Exp. Metal LW= 85mm, SW= 40mm x 3.0mm (8' x 4')

UF Edging

Certified to British & European Standards

Ref.	Description
UF3	(1.78mm gap) W=12.70mm, L= 2540mm
UF4	(1.78mm gap) W= 19.05mm, L= 3810mm
UF5	(1.78mm gap) W= 31.75mm, L= 3810mm
UF6	(3.30mm gap) W= 12.70mm, L= 2540mm
UF7	(3.30mm gap) W= 19.05mm, L= 3810mm
UF8	(3.30mm gap) W= 31.75mm, L= 3810mm
UF9	(5.08mm gap) W= 19.05mm, L= 3810mm
UF11	(10.16mm gap) W= 19.05mm, L=3810mm
UF13	(10.16mm gap) W= 25.40mm, L=3810mm
UF19	(6.50mm gap) W= 31.75mm, L= 3810mm

Perforated Sheet

Certified to British & European Standards

2m x 1m x 1.5mm (10sq. Hole)
2.5 x 1.25 x 1.5mm (10sq. Hole)
2m x 1m x 1.5mm (3 Rd. Hole)
2m x 1m x 1.5mm (6 Rd. Hole)
2m x 1m x 1.5mm (10 Rd. Hole)
2.5 x 1.25m x 1.5mm (5.0 Rd. Hole)
2.5 x 1.25m x 1.0m (3.0 Rd. Hole)

Weldmesh Panels

Certified to British & European Standards

Size (Imperial)	Finish
8 x 4 x 3 x 1/2 x 12g	Galvanised
8 x 4 x 3 x 1/2 x 10g	Self Coloured
8 x 4 x 3 x 1/2 x 12g	Self Coloured
8 x 4 x 1/2 x 1/2 x 16g	Self Coloured
6 x 3 x 2 x 2 x 10g	Galvanised
6 x 3 x 2 x 2 x 10g	Self Coloured
6 x 3 x 1 x 1 x 10g	Galvanised
6 x 3 x 1 x 1 x 10g	Self Coloured
8 x 4 x 1 x 1 x 10g	Galvanised
8 x 4 x 1 x 1 x 10g	Self Coloured
8 x 4 x 1 x 1 x 12g	Galvanised
8 x 4 x 1.1/2 x 1.1/2 x 10g	Self Coloured
8 x 4 x 2 x 1 x 10g	Self Coloured
8 x 4 x 2 x 2 x 10g	Galvanised
8 x 4 x 2 x 2 x 10g	Self Coloured
6 x 3 x 2 x 2 x 8g	Self Coloured
8 x 4 x 2 x 2 x 8g	Galvanised
8 x 4 x 2 x 2 x 8g	Self Coloured
8 x 4 x 2 x 2 x 6g	Self Coloured
8 x 4 x 3 x 3 x 10g	Galvanised
8 x 4 x 3 x 3 x 10g	Self Coloured
8 x 4 x 3 x 3 x 6g	Galvanised
8 x 4 x 3 x 3 x 6g	Self Coloured
12 x 6 x 6 x 3 x 6g	Galvanised
12 x 7 x 3 x 3 x 6g	Galvanised
12 x 7 x 3 x 3 x 10g	Self Coloured
6 x 3 x 3 x 3 x 6g	Galvanised
6 x 3 x 3 x 3 x 6g	Self Coloured
6 x 3 x 3 x 3 x 10g	Self Coloured
6 x 3 x 3 x 6 x 6g	Galvanised
6 x 3 x 3 x 6 x 6g	Self Coloured
8 x 4 x 3 x 6 x 6g	Galvanised
8 x 4 x 3 x 6 x 6g	Self Coloured
8 x 4 x 1/2 x 1/2 x 16g	Self Coloured
8 x 4 x 1 x 1 x 12g	Self Coloured
8 x 4 x 2 x 2 x 10g	Self Coloured
8 x 4 x 3 x 1/2 x 12g	Self Coloured

Weldmesh Rolls

Certified to British & European Standards

Size (Imperial)	Roll (m)
36 x 1/4 x 1/4 x 22g	6
36 x 1/2 x 1/2 x 19g	6
36 x 1/2 x 1 x 19g	6
36 x 1 x 1 x 19g	6
36 x 1 x 1/2 x 16g	6
36 x 1/2 x 1/2 x 16g	6
48 x 1/2 x 1/2 x 16g	6
24 x 3/4 x 3/4 x 16g	6
36 x 3/4 x 3/4 x 16g	6
48 x 3/4 x 3/4 x 16g	6
12 x 1 x 1 x 16g	6
24 x 1 x 1 x 16g	6
36 x 1 x 1 x 16g	6
36 x 1 x 1 x 16g	30
48 x 1 x 1 x 16g	6
48 x 1 x 1 x 16g	30
36 x 2 x 2 x 16g	6

Chainlink Fencing

Certified to British & European Standards

Galvanised	m
900 x 2.5	25
1.2m x 2.5	25
1.8m x 2.5	25
2.4m x 3.0	12.5
PVC	m
900 x 2.5/1.7	25
1.2m x 2.5/1.7	25
1.4m x 2.5/1.7	25
1.8m x 2.5/1.7	25
2.4m x 3.15/2.24	12.5

Also available a large range of galvanised wire netting rolls (10m + 50m)

Grade 50

Grade 50

Certified to British & European Standards

Size mm	Kg/m	Size mm	Kg/m
Flats		Rounds	
40 x 6	1.88	16mm	1.58
50 x 6	2.36	20mm	2.47
60 x 6	2.83	25mm	3.85
75 x 6	3.53	30mm	5.55
80 x 6	3.77		
100 x 6	4.71		
150 x 6	7.07	Equal Angles	
50 x 8	3.14	50 x 50 x 6	4.47
60 x 8	3.77	60 x 60 x 6	5.42
80 x 8	5.02	70 x 70 x 6	6.38
100 x 8	6.28	80 x 80 x 6	7.34
150 x 8	9.42	50 x 50 x 8	5.82
140 x 10	3.14	60 x 60 x 8	7.09
150 x 10	3.93	70 x 70 x 8	8.36
60 x 10	4.71	80 x 80 x 8	9.63
65 x 10	5.10	100 x 100 x 8	12.20
70 x 10	5.50	70 x 70 x 10	10.30
75 x 10	5.89	80 x 80 x 10	11.90
80 x 10	6.28	100 x 100 x 10	15.00
100 x 10	7.85	100 x 100 x 12	17.80
120 x 10	9.42	150 x 150 x 12	27.30
150 x 10	11.80		
180 x 10	14.13	Unequal Angles	
200 x 10	15.70	100 x 50 x 6	7.00
350 x 10	27.48	100 x 65 x 8	9.94
50 x 12	4.71	100 x 75 x 8	10.60
80 x 12	7.54	125 x 75 x 8	12.20
100 x 12	9.42	100 x 75 x 10	13.00
120 x 12	11.30	125 x 75 x 10	15.00
150 x 12	14.30	150 x 75 x 10	17.00
200 x 12	18.84	100 x 75 x 12	15.40
80 x 15	9.42	125 x 75 x 12	17.80
100 x 15	11.80	150 x 75 x 12	20.20
130 x 15	15.31	150 x 90 x 12	21.60
150 x 15	17.70	200 x 100 x 12	27.30
200 x 15	23.60		
100 x 20	15.70		
150 x 20	23.60		
100 x 25	19.63		
150 x 25	29.44		

Material to minimum grade: S355 J2

Lengths available from 6.1-6.4m random lengths

Hollow Sections

Structural Hollow Sections - Square

Certified to British & European Standards



Size mm	Kg/m	Size mm	Kg/m
20 x 20 x 2.0	1.12	90 x 90 x 3.5	9.45
		x 5.0	13.30
25 x 25 x 2.0	1.43	x 6.0	16.40
x 2.5	1.74		
x 3.0	2.04	100 x 100 x 3.0	9.1
		x 4.0	12.00
30 x 30 x 2.5	2.14	x 5.0	14.80
x 3.0	2.51	x 6.0	18.40
		x 8.0	22.90
40 x 40 x 2.5	2.92	x 10.0	27.90
x 3.0	3.45		
x 4.0	4.46	120 x 120 x 5.0	18.00
50 x 50 x 2.0	2.98	x 6.0	22.30
50 x 50 x 2.5	3.71	x 8.0	27.90
x 3.0	4.39	x 10.0	34.20
x 4.0	5.72		
x 5.0	6.97	150 x 150 x 5.0	22.70
		x 6.0	28.30
60 x 60 x 3.0	5.34	x 8.0	35.40
x 4.0	6.97	x 10.0	43.60
x 5.0	8.54	x 12.5	53.40
70 x 70 x 3.0	6.28	180 x 180 x 5.0	27.97
x 3.5	7.25	x 8.0	43.00
x 5.0	10.10	x 10.0	53.00
75 x 75 x 3.0	7.30	200 x 200 x 6.0	38.20
80 x 80 x 3.0	7.22	x 10.0	59.30
x 3.5	8.35	x 12.5	73.00
x 5.0	11.70		
x 6.3	14.40		

All Structural Hollow Sections are available in 7.6m lengths Ex-Stock, also larger sizes are available in 10/12m lengths on application

All sizes are generally cold formed, hot formed range is available for prompt delivery

Structural Hollow Sections - Rectangular

Certified to British & European Standards

Size mm	Kg/m	Size mm	Kg/m
50 x 25 x 2.0	2.26	120 x 60 x 3.0	9.72
50 x 25 x 2.5	2.72	x 5.0	13.30
x 3.0	3.22	x 6.0	16.40
50 x 30 x 2.5	2.92	120 x 80 x 5.0	14.80
x 3.0	3.45	x 6.0	18.40
		x 8.0	22.90
60 x 40 x 3.0	4.39	x 10.0	27.90
x 4.0	5.72		
x 5.0	6.97	150 x 100 x 5.0	18.70
		x 6.0	22.30
75 x 50 x 3	5.42	x 8.0	29.10
		x 10.0	35.70
80 x 40 x 3.0	5.34		
x 4.0	6.97	160 x 80 x 5.0	18.00
x 5.0	8.54	x 6.0	22.30
		x 8.0	27.90
90 x 50 x 3.0	6.28	x 10.0	34.20
x 3.0	7.46		
x 5.0	10.10	200 x 100 x 5.0	22.70
		x 6.0	28.30
100 x 50 x 2.5	5.56	x 8.0	35.40
x 3.0	6.75	x 10.0	43.60
x 4.0	8.86	x 12.5	53.40
x 5.0	10.90		
x 6.0	13.40	250 x 150 x 6.0	38.20
		x 8.0	48.00
100 x 60 x 3.0	7.22	x 10.0	59.30
x 3.0	8.59		
x 5.0	11.70		
x 6.0	14.40		

ISO 9001 : 2008
UKAS Accredited Firm

Structural Hollow Sections - Circular

Certified to British & European Standards



Size mm	Kg/m	Size mm	Kg/m
21.3 x 3.0	1.34	88.9 x 3.0	6.36
		x 4.0	8.38
26.9 x 2.5	1.5	x 5.0	10.30
26.9 x 3.0	1.77		
33.7 x 2.5	1.99	114.3 x 3.5	9.56
x 3.0	2.27	x 5.0	13.50
x 4.0	2.93	x 6.0	16.80
42.4 x 2.5	2.46	139.7 x 5.0	16.60
x 3.0	2.91	x 6.0	20.70
x 4.0	3.79	x 8.0	26.00
		x 10.0	32.00
48.3 x 3.0	3.35		
x 4.0	4.37	168.3 x 5.0	20.10
x 5.0	5.34	x 6.0	25.20
		x 8.0	31.60
60.3 x 3.0	4.24	x 10.0	39.00
x 4.0	5.55		
x 5.0	6.82	193.7 x 5.0	23.30
		x 6.0	29.10
76.1 x 3.0	5.41	x 8.0	36.60
x 4.0	7.11	x 10.0	45.30
x 5.0	8.77	x 12.5	55.90

ERW Tubes

Certified to British & European Standards

Size	Kg/m	Size	Kg/m
1/2" x 1/2" x 16g	0.531	7/8" o/d x 18g	0.632
3/4" x 3/4" x 18g	0.663	1" o/d x 16g	0.956
3/4" x 3/4" x 16g	0.856	1.1/4" x 16g	1.210
1" x 1" x 16g	1.181	1.1/2" x 16g	1.466
1.1/4" x 1.1/4" x 16g	1.506	1.3/4" x 16g	1.492
1.1/2" x 1.1/2" x 16g	1.831	2" x 16g	1.977
1.1/2" x 3/4" x 16g	1.400	3" x 16g	2.86
2" x 1" x 16g	1.800	4" x 16g	4.019
1/2" o/d x 16g	0.445	4" x 10g	8.808
5/8" o/d x 16g	0.573	5" x 10g	9.811
3/4" o/d x 16g	0.700	6" x 10g	10.70

Available in 6.1m lengths

BS10255 Steel Tubes - Red/Self Colour

Certified to British & European Standards



Nominal Bore		Plain End		Screwed and Socket	
Inches	mm	Medium	Heavy	Medium	Heavy
	Kg/m	Kg/m	Kg/m	Kg/m	Kg/m
3/8	10	0.853	1.020	0.860	1.027
1/2	15	1.223	1.454	1.233	1.463
3/4	20	1.577	1.890	1.593	1.903
1	25	2.441	2.977	2.457	2.990
1 1/4	32	3.141	3.841	3.170	3.870
1 1/2	40	3.617	4.434	3.661	4.481
2	50	5.090	6.160	5.164	6.238
2 1/2	65	6.517	7.904	6.637	8.021
3	80	8.467	10.061	8.631	10.224
4	100	12.114	14.451	12.411	14.748
5	125	16.221	17.858	16.668	18.305
6	150	19.198	21.282	19.796	21.875

Available in 6.5m lengths

BS1387 Steel Tubes - Galvanised

Certified to British & European Standards



Nominal Bore		Plain End		Screwed and Socket	
Inches	mm	Medium	Heavy	Medium	Heavy
		Kg/m	Kg/m	Kg/m	Kg/m
1/2	15	1.273	1.504	1.283	1.514
3/4	20	1.644	1.954	1.660	1.970
1	25	2.524	3.057	2.540	3.074
1 1/4	32	3.247	3.943	3.177	3.974
1 1/2	40	3.737	4.557	3.784	4.601
2	50	5.244	6.314	5.320	6.391
2 1/2	65	6.714	8.098	6.839	8.210
3	80	8.697	10.287	8.864	10.454
4	100	12.414	14.748	12.718	15.052
5	125	16.588	18.225	17.045	18.682
6	150	19.632	21.719	20.242	22.326

Available in 6.5m lengths

Medium & Heavy walled tubes available Ex-Stock

Handrail Standards

Self Colour Sticks Without Bases

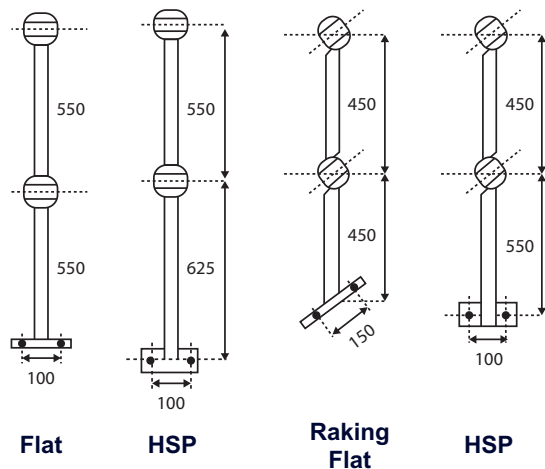
Shank	Ball Dia.	Rail Dia.
33.7	65	33.7
42.4	65	33.7
42.4	82	42.4
48.3	82	42.4

Galvanised Standards With Bases

Base Type	Angle
Flat	Platform Type
HSP	Platform Type
Raking Flat	38°
Raking Flat	42°
Raking Side Palm	42°
HSP	38°
HSP	42°

All Stocked Standards have 42.4mm dia. shanks with balls to suit 33.7mm dia. rail

All baseplate fixing holes are 18mm dia



Flat































HSP

Raking
Flat

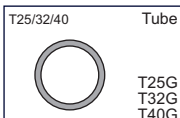
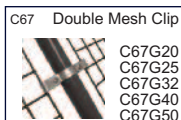
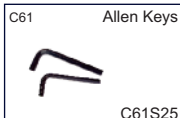
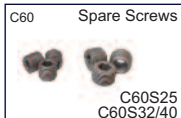
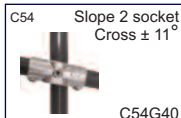
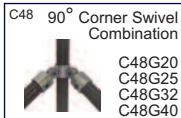
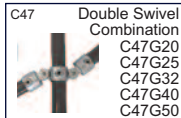
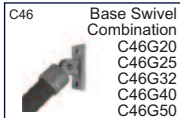
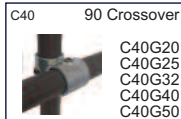
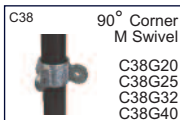
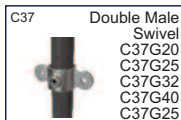
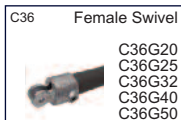
HSP

Left/Right = As looking up the stairs

Fast Clamp

C00 Sleeve Joint  C00G20 C00G25 C00G32 C00G40 C00G50	C01 Expanding Connector  C01G25 C01G32 C01G40	C02 90° Elbow  C02G20 C02G25 C02G32 C02G40 C02G50
C03 Short Tee  C03G20 C03G25 C03G32 C03G40 C03G50	C04 Long Tee  C04G20 C04G25 C04G32 C04G40 C04G50	C05 Variable Elbow  C05G20 C05G25 C05G32
C06 Internal T Joint  C06G25 C06G32 C06G40	C07 45° Tee  C07G25 C07G32 C07G40	C10 Swivel Base  C10G
C11 Base Flange  C11G20 C11G25 C11G32 C11G40 C11G50	C12 Railing Base Flange  C12G20 C12G25 C12G32 C12G40 C12G50	C13 Railing Vertical Side Support  C13G25 C13G32 C13G40
C14 Railing Horizontal Side Support  C11G20 C11G25 C11G32 C11G40 C11G50	C15 Side Palm Fixing  C12G20 C12G25 C12G32 C12G40 C12G50	C16 Handrail Bracket  C16G20 C16G25 C16G32 C16G40
C17 Ground Support  C17G25 C17G32 C17G40	C20 3 Way 90° Elbow  C20G20 C20G25 C20G32 C20G40 C20G50	C21 Corner C/W Thru Tube  C21G20 C21G25 C21G32 C21G40 C21G50
C22 Two Socket Cross  C22G25 C22G32 C22G40 C22G50	C23 Side Outlet Tee  C23G20 C23G25 C23G32 C23G40 C23G50	C24 4 Way Cross & Central Tube  C24G20 C24G25 C24G32 C24G40 C24G50
C25 Short Tee Swivel  C25G25 C25G32 C25G40	C28 Adjustable 2 Socket Cross 30° - 60°  C28G25 C28G32 C28G40	C29 Adjustable Short Tee  C29G25 C29G32 C29G40
C30 Collar  C30G20 C30G25 C30G32	C31 Gate Eye  C31G20 C31G25 C31G32 C31G40	C32 Gate Hinge  C32G20 C32G25 C32G32 C32G40
C33 Hook  C33G20 C33G25 C33G32	C34 Fixing Pad  C34G25 C34G32 C34G40	C35 Male Swivel  C35G20 C35G25 C35G32 C35G40 C35G50

Fast Clamp

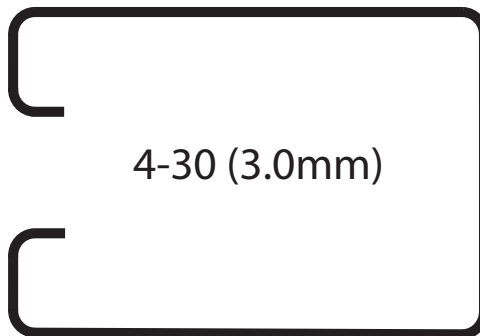
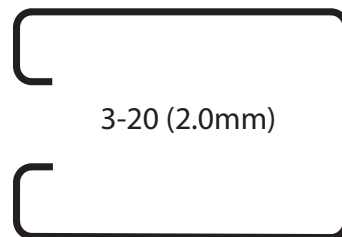
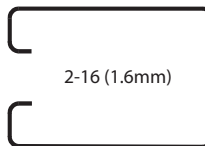


Sliding Door Gear

Certified to British & European Standards

2 – 16 Track	Maximum Door Weight: 200kg (440lb) Maximum Door height: 4m (13')
3 – 20 Track	Maximum Door Weight: 400kg (880lb) Maximum Door height: 5m (16')
4 – 30 Track	Maximum Door Weight: 1000kg (2200lb) Maximum Door Height: 7m (23')

(Figures for single track only)



3-20-18 Top Track/1.8m
3-20-21 Top Track/2.1m
3-20-24 Top Track/2.4m
3-20-30 Top Track/3m
3-100 Open Side Wall Brackets
3-190 Open Soffit Bracket (Top Fix)
3-130 Double Side Wall Bracket
3-002 Lock Joint Kit
3-051 Closed End Piece
3-207 Metal Door Hanger
3-201 Timber Door Hanger



Reinforcement

Reinforcement Fabric

To BS 4449

BS Ref	Mesh Size Normal Pitch of Wires (mm)		Wire Sizes (mm)		Sheet Weight (kg)
	Main	Cross	Main	Cross	
Square					
A393	200	200	10	10	71
A252	200	200	8	8	46
A193	200	200	7	7	35
A142	200	200	6	6	26
Structural					
B1131	100	200	12	8	126
B785	100	200	10	8	94
B503	100	200	8	8	69
B385	100	200	7	7	52

Standard Sheet size 4.8m x 2.4m
D49 Wrapping Fabric also available

High Yield Round (Twisted)

To BS 4449

High Yield Round (Twisted)		High Yield Round (Twisted)	
Dia	Kg/m	Dia	Kg/m
8	0.395	20	2.470
10	0.617	25	3.850
12	0.888	32	6.310
16	1.580		

(Available in 6.1/6.4m random lengths)
Range of Reinforcement Spacers also available
from stock including:

- Deck Chairs
- Meshmen
- Grade Plate Spacers

We are also able to provide Cut and Bent Material
to schedule

Spacers Ex-Stock

Deck Chairs - 50/105 and 200 High

Meshmen - 40/50

Grade Plate - 50

ISO 9001 : 2008
UKAS Accredited Firm

Bright Steel

Bright Mild Steel Rounds

EN3B/070M20/080A15

Imperial				Metric			
Imperial Sizes		Imperial Sizes		Metric Sizes		Metric Sizes	
Dia	Kg/m	Dia	Kg/m	Dia	Kg/m	Dia	Kg/m
1/8"	0.067	3"	25.700	5	0.150	60	22.200
3/16"	0.140	3.1/4"	41.900	6	0.222	65	26.050
7/32"	0.190	3.1/2"	48.600	7	0.300		
1/4"	0.249	3.3/4"	55.800	8	0.395	70	30.210
5/16"	0.389			9	0.500	75	34.680
3/8"	0.560	4"	63.500	10	0.620		
7/16"	0.761	4.1/4"	71.700	11	0.740	80	39.460
1/2"	0.990	4.1/2"	80.400	12	0.888	85	44.550
9/16"	1.260			13	1.040		
5/8"	1.550	5"	99.200	14	1.210	90	49.800
11/16"	1.880	5.1/2"	120.100	15	1.390	95	55.640
3/4"	2.240			16	1.578		
13/16"	2.620	6"	143.200	18	1.998	100	61.650
7/8"	3.050			19	2.240	105	68.000
						110	74.600
1"	3.980			20	2.470	115	81.500
1.1/16"	4.490			22	2.980	120	88.000
1.1/8"	5.040			24	3.550	125	96.330
1.3/16"	5.610			25	3.853	140	121.000
1.1/4"	6.220			26	4.170	150	139.000
1.3/8"	7.520			28	4.830		
1.1/2"	8.950						
1.5/8"	10.480			30	5.550		
1.3/4"	12.180			32	6.310		
1.7/8"	13.95			35	7.540		
				36	7.990		
2"	15.910			38	8.900		
2.1/8"	17.960						
2.1/4"	20.140			40	9.870		
2.3/8"	22.440			42	10.880		
2.1/2"	24.800			45	12.480		
2.5/8"	27.400			48	14.200		
2.3/4"	30.080						
2.7/8"	32.880			50	15.400		
				55	18.650		

Available in 3-3.5m random lengths, 6m lengths available in certain sizes on application

Full range of the above sizes also available in EN8

Bright Rounds - Imperial

EN16T/19T/24T

Imperial Size	605M36 EN16T	709M40 EN19T	817M40 EN24T
7/16"		*	
1/2"	*	*	*
5/8"	*	*	*
3/4"	*	*	*
7/8"	*		*
1"	*	*	*
1.1/8"	*		*
1.1/4"	*	*	*
1.1/2"	*	*	*
1.5/8"	*		
1.3/4"	*	*	*
2"	*	*	*
2.1/4"	*		*
2.3/8"	*		
2.1/2"	*	*	*
3"	*	*	*

Bright Rounds - Metric

EN16T/19T/24T

Metric Size	605M36 EN16T	709M40 EN19T	817M40 EN24T
10			*
12			
15			
16	*		*
20	*	*	*
25	*	*	*
30	*	*	*
32			*
35	*	*	
40	*	*	*
45	*	*	*
50	*	*	*
60	*		*
65		*	
70	*		
80	*		*

Available, Ex-Stock in 3/3.5m random lengths and items marks * all Ex-Stock

Bright Mild Steel Flats - Imperial

EN3B/070M20

Size - Inches	Kg/m	Size - Inches	Kg/m	Size - Inches	Kg/m
1/4 x 1/8	0.16	1.1/4 x 1/2	3.16	3 x 1/8	1.90
		x 5/8	3.95	x 3/16	2.84
3/8 x 1/16	0.12	x 3/4	4.74	x 1/4	3.80
x 1/18	0.24	x 1	6.32	x 3/8	5.70
x 3/16	0.36			x 1/2	7.60
x 1/4	0.47	1.1/2 x 1/16	0.50	x 5/8	9.50
		x 1/8	0.95	x 3/4	11.40
1/2 x 1/16	0.16	x 3/16	1.42	x 1	15.20
x 1/8	0.32	x 1/4	1.90	x 1.1/4	19.00
x 3/16	0.47	x 5/16	2.37	x 1.1/2	22.80
x 1/4	0.63	x 3/8	2.84	x 2	30.40
x 3/8	0.95	x 1/2	3.80	x 2.1/2	37.95
		x 5/8	4.74		
5/8 x 1/8	0.40	x 3/4	5.70	3.1/2 x 1/4	4.42
x 3/16	0.59	x 1	7.58	x 3/8	6.63
x 1/4	0.79	x 1. 1/4	9.47	x 1/2	
x 5/16	0.99				
x 3/8	1.19	2 x 1/8	1.26	4 x 1/8	2.53
		x 3/16	1.90	x 3/16	3.79
3/4 x 1/8	0.47	x 1/4	2.53	1/4	5.10
x 3/16	0.71	x 5/16	3.16	x 3/8	7.60
x 1/4	0.96	x 3/8	3.80	x 1/2	10.10
x 5/16	1.19	x 1/2	5.05	x 5/8	12.60
x 3/8	1.42	x 5/8	6.32	x 3/4	15.20
x 1/2	1.90	x 3/4	7.58	x 1	20.30
x 5/8	2.37	x 7/8	8.85	x 1.1/4	25.30
		x 1	10.11	x 1.1/2	30.40
1 x 1/16	0.32	x 1. 1/4	12.64	x 2	40.50
x 1/8	0.48	x 1. 1/2	15.20	x 2.1/2	50.60
x 3/16	0.95	x 1.3/4	17.71		
x 1/4	1.26			4.1/2 x 1/2	11.37
x 5/16	1.58	2.1/2 x 1/8	1.58	x 1	22.70
x 3/8	1.90	x 3/16	2.37		
x 1/2	2.53	x 1/4	3.16	5 x 1/4	6.30
x 5/8	3.16	x 3/8	4.74	x 3/8	9.50
x 3/4	3.79	x 1/2	6.32	x 1/2	12.70
		x 5/16	3.95	x 5/8	15.80
1.1/4x1/16	0.40	x 3/4	9.48	x 3/4	19.00
x 1/8	0.79	x 1	12.64	x 1	25.30
x 3/16	1.19	x 1.1/4	15.80	x 3	76.00
x 1/4	1.58	x 1.1/2	19.00		
x 5/16	1.97	x 2	25.30		
x 3/8	2.37				

Available, Ex-Stock in 3/3.5m random lengths and certain sizes also available in EN8

Bright Mild Steel Flats - Imperial

EN3B/070M20

Size - Inches	Kg/m	Size - Inches	Kg/m	Size - Inches	Kg/m
6 x 1/8	3.79	6 x 3/4	22.80	7 x 1/2	17.71
x 3/16	5.69	x 1	30.40		
x 1/4	7.60	x 1.1/4	37.90	8 x 1/2	20.24
x 3/8	11.40	x 1.1/2	45.50	x 5/8	25.30
x 1/2	15.20	x 2	60.60		
				10 3/4	37.95

Bright Mild Steel Flats - Metric

EN3B/070M20

Size	Kg/m	Size	Kg/m	Size	Kg/m
10 x 1.5	0.12	25 x 3	0.59	40 x 3	0.94
x 5	0.39	x 5	0.98	x 5	1.57
x 6	0.47	x 6	1.18	x 6	1.88
		x 8	1.57	x 8	2.51
12 x 3	0.29	x 10	1.96	x 10	3.14
x 5	0.47	x 12	2.53	x 12	3.77
x 6	0.57	16	3.14	x 16	5.02
x 8	0.83	x 20	3.93	x 20	6.28
				x 25	7.83
16 x 3	0.38	30 x 3	0.71		
x 6	0.75	x5	1.18	45 x 6	2.12
x 8	1.17	x 6	1.41	x 8	2.83
x 10	1.26	x 8	1.88	x 10	3.53
x 12	1.51	x 10	2.36	x 12	4.24
		x 12	2.83	x 16	5.65
20 x 3	0.47	x 16	3.77	x 20	7.02
x 5	0.79			x 25	8.83
x 6	0.94	30 x 20	4.71		
x 8	1.26	x 25	5.89	50 x 3	1.18
x 10	1.57			x 5	1.96
x 12	1.88	35 x 5	1.50	x 6	2.36
x 16	2.51	x 10	2.75	x 8	3.14
		x 12	3.30	x 10	3.93
		x 16	4.39	x 12	4.71
		x 20	5.49	x 16	6.28
				x 20	7.85
				x 25	9.81
				x 30	11.80

Available, Ex-Stock in 3/3.5m random lengths and certain sizes also available in EN8

Bright Mild Steel Flats - Metric

EN3B/070M20

Size	Kg/m	Size	Kg/m	Size	Kg/m
55 x 6	2.59	75 x 6	3.54	100 x 5	3.93
x 10	4.32	x 8	4.71	x 6	4.71
x 12	5.12	x 10	5.89	x 8	6.28
x 16	6.91	x 12	7.07	x 10	7.85
x 20	8.00	x 16	9.42	x 12	9.42
		x 20	11.8	x 16	12.56
60 x 5	2.36	x 25	14.70	x 20	15.70
x 6	2.83	x 50	29.00	x 25	19.60
x 8	3.77			x 30	23.60
x 10	4.71	80 x 3	1.89	x 40	31.40
x 12	5.65	x 5	3.14	x 50	39.30
x 16	7.54	x 6	3.77	x 65	51.00
x 20	9.42	x 8	5.02		
x 25	11.80	x 10	6.28	120 x 10	10.00
x 30	14.00	x 12	7.54	x 12	13.33
x 40	18.84	x 16	10.01		
		x 20	12.60	125 x 16	15.70
65 x 6	3.06	x 25	15.70	x 20	19.63
x 10	5.10	x 30	18.80	x 25	24.53
x 12	6.12	x 40	25.10	x 30	29.44
x 16	8.16	x 50	31.00	x 50	49.06
x 20	10.20				
x 40	21.00	90 x 6	4.24	150 x 6	7.07
x 50	26.00	x 8	6.00	x 10	11.80
		x 10	7.07	x 12	14.10
70 x 6	3.30	x 12	8.84	x 16	18.84
x 8	4.40	x 16	11.30	x 20	23.60
x 10	5.50	x 20	14.10	x 25	29.40
x 12	6.59	x 25	17.70	x 30	35.40
x 16	8.78	x 30	21.00	x 50	58.88
x 20	11.00	x 40	29.00		
x 25	13.74	x 50	35.00	160 x 12	16.34
x 30	16.49				
x 50	27.48			180 x 10	16.34
				200 x 10	15.70
				x 12	18.80
				x 20	31.40

Available, Ex-Stock in 3/3.5m random lengths and certain sizes also available in EN8

ISO 9001 : 2008
UKAS Accredited Firm

Bright Hexagon - Imperial

Imperial Size	070 M20 EN3B	230 M07 EN1A	080 M40 EN8	Imperial Size	070 M20 EN3B	230 M07 EN1A	080 M40 EN8
0.312 (5/16)		*					
0.500 (1/2)		*		1.200		*	
				1.250		*	
0.525		*		1.300	*	*	*
0.562 (9/16)		*		1.480		*	*
0.625 (5/8)		*		1.50 (1.1/2)		*	*
0.750 (3/4)		*	*				
0.812 (13/16)		*		1.670		*	
0.820	*	*		1.860		*	
0.875 (7/8)		*					
0.920	*	*		3.000		*	
0.937	*						
1.000 (1)	*		*	3.550	*		
1.100	*						
1.125 (1.1/8)	*						

Bright Hexagon - Metric

Metric Size	070 M20 EN3B	230 M07 EN1A	080 M40 EN8	Metric Size	070 M20 EN3B	230 M07 EN1A	080 M40 EN8
7		*					
10		*		30		*	*
12		*		32	*	*	*
13		*		36	*	*	
14		*					
16	*			41	*	*	
17		*		46	*		
18		*					
				50		*	
20		*		55	*		
22		*					
24		*		60	*	*	
25		*		70		*	
27		*		90		*	

Available, Ex-Stock in 3/3.5m random lengths

Bright Mild Steel Square - Imperial and Metric

EN3B/070M20



Imperial Sizes		Imperial Sizes		Metric Sizes		Metric Sizes	
	Kg/m		Kg/m		Kg/m		Kg/m
3/16"	0.20	1.1/4"	7.90	5	0.27	40	12.53
1/4"	0.30	1.3/8"	9.57	6	0.28	45	15.90
5/16"	0.53	1.1/2"	11.40	8	0.50		
3/8"	0.70	1.3/4"	15.50	10	0.78	50	22.00
7/16"	1.07			12	1.13		
1/2"	1.30	2"	20.30	16	2.01	60	28.3
5/8"	1.97	2.1/4"	25.60				
3/4"	2.84	2.1/2"	31.60	20	3.13	80	50.00
7/8"	3.87			22	3.80		
		3"	45.60	25	4.90	90	64.00
1"	5.05	3.1/2"	62.00				
1.1/8"	6.40			30	7.05	100	78.00
		4"	81.00	35	8.67		

Bright Mild Steel Angle - Metric

EN3B/070M20



Metric Size	Kg/m	Metric Size	Kg/m
20 x 20 x 3	0.88	40 x 40 x 6	3.52
25 x 25 x 5	1.77	50 x 50 x 6	4.47

Available in 3/3.5m random lengths

ISO 9001 : 2008
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Please ask for any items not listed,
we will probably surprise you

Buy **EVERYTHING** with one call or visit

Fibre Cement & Galv

Fibre Cement Range

We stock a comprehensive range of Profile 6 Marley Eternit sheeting and accessories in natural grey finish, with other finishes available to order.



Sheet sizes range from 5' up to 10' in 6" increments, and alongside this, we keep popular additional items, such as Closed/Vented Ridges, Bargeboards and Roof Lights.




MarleyEternit

Galvanising and Powder Coating

Thomas Graham & Sons offer a Galvanizing and Powder Coating service in association with Highland Galvanizers and Colour Coaters.

Drop off your Gates, Railings, etc. at our Carlisle Branch for collection by the Galvanizers.



We have two collections/deliveries per week from our Carlisle Branch.

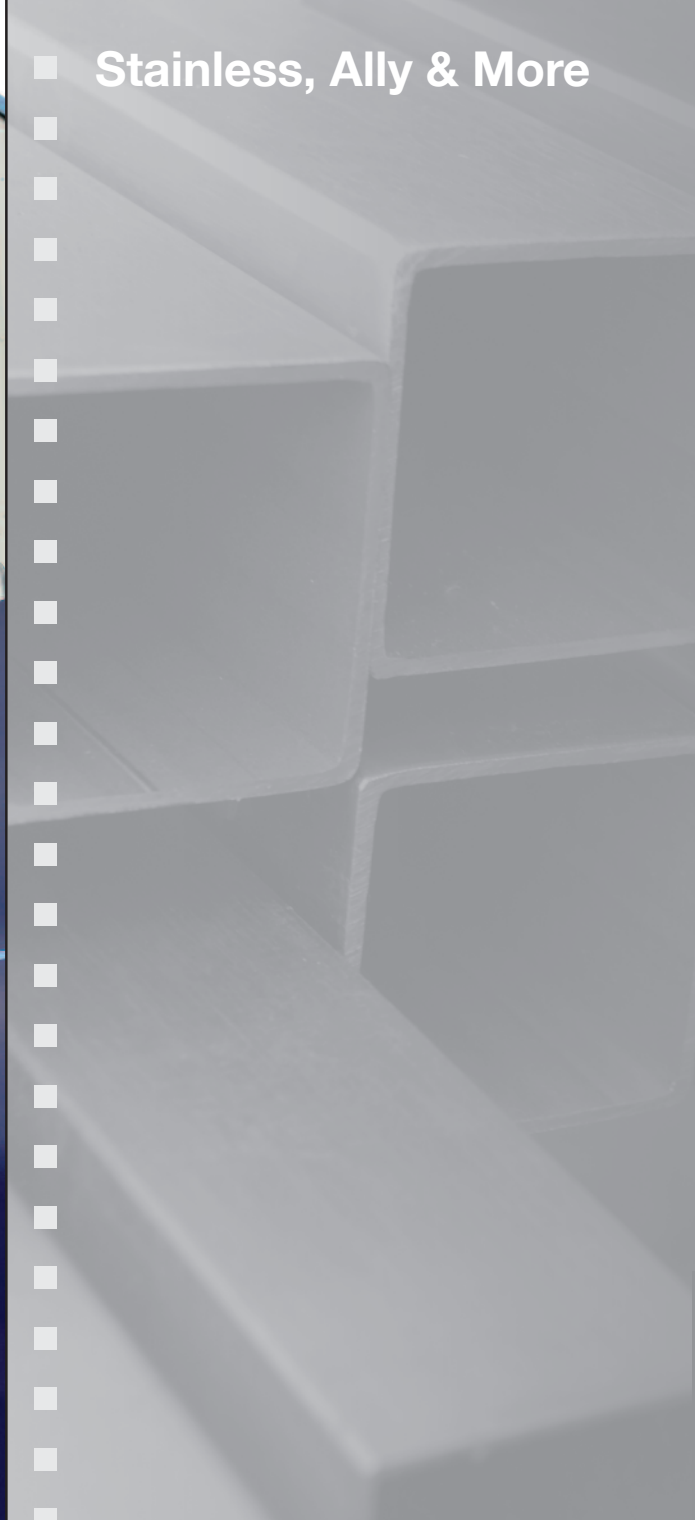
*Please phone your **Local Branch** for more details.*

Please note, all galvanized material must be collected by the customer as we will not deliver.

highland 



Stainless, Ally & More



Aluminium Sheets and Treadplates

Size mm	Aluminium Sheets 1050			Aluminium Treadplate		
	2m x 1m	2.5m x 1.25m	3m x 1.5m	2m x 1m	2.5m x 1.25m	3m x 1.5m
6.0		*		*	*	*
5.0	*	*				
4.5				*	*	*
4.0		*				
3.0	*	*	*	*	*	*
2.5	*	*				
2.0	*	*	*	*	*	
1.5	*	*	*			
1.2	*	*				
1.0	*	*				
0.8	*	*				
0.6		*				

Items marked * available Ex-Stock

Aluminium Angle - Imperial



Size Inches	Size Inches	Size Inches
1/2 x 1/2 x 1/8	1.1/2 x 1.1/2 x 3/16	1.1/2 x 1/2 x 1/8
3/4 x 3/4 x 1/8	1.1/2 x 1.1/2 x 1/4	2 x 1 x 1/8
1 x 1/2 x 1/8		
1 x 1 x 1/8	2 x 2 x 1/8	2 x 1.1/2 x 1/4
1 x 1 x 1/4	2 x 2 x 3/16	
2 x 2 x 1/4	3 x 2 x 1/4	
1.1/4 x 1.1/4 x 1/8		4 x 1 x 1/8
3 x 3 x 1/8	4 x 2 x 1/8	
1.1/2 x 1.1/2 x 1/8	3 x 3 x 1/4	4 x 2 x 1/4

Available, Ex-Stock in 5m lengths
Other sizes available on request

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Aluminium Rounds



Diameter Inches	Diameter Inches	Diameter Inches
1/4"	1.1/4"	4"
5/16"	1.1/2"	4.1/2"
3/8"	1.3/4"	5"
1/2"	2"	6"
5/8"	2.1/4"	8"
3/4"	2.1/2"	12"
7/8"	3"	
1"	3.1/2"	

Available in 4m random lengths

Aluminium Squares



Size Inches	Size Inches
1/4"	1.1/2"
3/8"	1.3/4"
1/2"	2"
5/8"	2.1/2"
3/4"	3"
1"	3.1/2"
1.1/4"	4"

Available in 4m random lengths

Aluminium Channel



Size Inches	Size Inches
1/2 x 1/2 x 1/8	3 x 2 x 1/4
3/4 x 3/4 x 1/8	4 x 2 x 1/4
1 x 1 x 1/8	6 x 3 x 1/4
2 x 1 x 1/8	

Available in 5m random lengths

Aluminium Tee

3/4 x 3/4 x 1/8
1 x 1 x 1/8
2 x 2 x 1/4

Aluminium Tube



Size Inches	Size Inches
1/2 x 16g	2 x 16g
3/4 x 16g	2 x 10g
1 x 16g	2 x 1/4
1 x 10g	2.1/2 x 10g
1.1/4 x 10g	
1.1/2 x 10g	3 x 10g
1.29/32 x 7g Scaffolding Tube	3 x 1/4
	4 x 1/4

Available in 5m random lengths

Aluminium Box Section



Size Inches	Size Inches
3/4 x 3/4 x 16g	2 x 1 x 10g
1 x 1 x 16g	2 x 2 x 10g
1 x 1 x 10g	3 x 1 x 10g
	3 x 1.1/2 x 10g
1.1/4 x 1.1/4 x 10g	
	4 x 2 x 10g
1.1/2 x 1.1/2 x 10g	

Available in 5m random lengths

Aluminium Flats



Thickness Inches	1/8"	3/16"	1/4"	3/8"	1/2"	5/8"	3/4"	1"
1/2"	*							
3/4"	*			*	*			
1"	*	*	*	*	*			
1.1/4"		*	*		*			
1.1/2"	*	*	*	*	*	*	*	*
2"	*	*	*	*	*	*	*	*
2.1/2"			*		*			
3"	*		*	*	*	*	*	*
4"			*	*	*	*	*	*
5"			*					
6"			*	*	*		*	*

Available, Ex-Stock in 5m lengths
Items marked * Ex-Stock

Stainless Steel Sheets - 304

Size m	Stainless Steel Sheets - Grade 304					
	2m x 1m	2.5m x 1.25m	3m x 1.5m	2m x 1m (DPI)	2.5m x 1.25m (DPI)	3m x 1.5m
10.0	*					
6.0	*	*				
5.0	*	*				
4.0	*	*				
3.0	*	*	*	*	*	*
2.5	*	*	*		*	
2.0	*	*	*	*	*	*
1.5	*	*	*	*	*	*
1.2	*	*	*	*	*	*
0.9	*	*		*	*	
0.5	*	*				

Stainless Steel Angle - 304



Size - mm	Size - mm	Size - mm	Size - mm
20 x 20 x 3	30 x 30 x 3	50 x 50 x 3	60 x 60 x 6
30 x 30 x 5	50 x 50 x 5		
25 x 25 x 3	30 x 30 x 6	50 x 50 x 6	75 x 75 x 6
25 x 25 x 5			
25 x 25 x 6	40 x 40 x 3		80 x 80 x 10
40 x 40 x 5			
40 x 40 x 6		100 x 100 x 10	

Available in 6.1m random lengths
Also available in Grade 316

Stainless Steel Flats - 304



Width mm	Thickness					
	3mm	5mm	6mm	8mm	10mm	12mm
12	*	*	*			
20	*	*	*		*	
25	*	*	*		*	
30	*	*	*	*	*	
40	*	*	*	*	*	*
50	*	*	*	*	*	*
60	*		*			
65					*	
75			*	*	*	*
100			*	*	*	*
150					*	

Available in 4/4.3m random lengths

Stainless Steel Rounds

Metric		Imperial		
Diameter mm 304	Diameter mm 304	Diameter Inches 304	Diameter Inches 304	Diameter Inches 304
4	30	1/8"	1"	3"
5			1.1/8"	3.1/4"
6	40	3/16"	1.1/4"	3.1/2"
8		1/4"	1.1/2"	
10	50	5/16"	1.3/4"	4"
12		3/8"		
16	60	1/2"	2"	5"
20		5/8"	2.1/8"	
25		3/4"	2.1/4"	6"
		7/8"	2.1/2"	
			2.3/4"	8"

Available in 3m random lengths

Stainless Steel Square - 304

Size mm	Size mm
10	25
12	30
16	40
20	50

Available in 4m random lengths

Stainless Steel Box Section - 304

Size mm	Wall Thickness mm				Size mm	Wall Thickness mm		
	1.2	1.5	2.00	3.00		1.5	2.00	3.00
20 x 20	*				70 x 70			*
25 x 25	*				80 x 80			*
					100 x 100			*
30 x 30	*		*		50 x 25	*		
					80 x 40			*
40 x 40	*	*	*		100 x 50			*
					60 x 30	*		
50 x 50	*	*	*		60 x 60		*	*

Available in 6.1m random lengths
Items marked * Ex-Stock

Stainless Steel Tube - 304

Size Inches	Size Inches
1/4 x 18g	1.1/2 x 16g
3/8 x 18g	
1/2 x 16g	2 x 16g
3/4 x 16g	2.1/2 x 16g
1 x 16g	3 x 16g
1.1/4 x 16g	4 x 16g

Available in 6.1m random lengths

Brass Round (CZ121)

Metric	Imperial	
Diameter mm	Diameter Inches	Diameter Inches
6	3/16"	1"
8	1/4"	1.1/8"
10	5/16"	1.1/4"
12	3/8"	1.3/8"
16	1/2"	1.1/2"
	5/8"	
20	3/4"	2"
25	7/8"	2.1/2"
		3"
		4"

Available in 3m random lengths

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Brass Flats (CZ121)



Width Inches	Thickness					
	1/16"	1/8"	5/32"	3/16"	1/4"	3/8"
3/16"	*					
1/4"						
1/2"		*		*		
3/4"		*				
1"		*		*	*	
1.1/4"		*				
1.1/2"		*		*	*	
2"		*		*	*	

Available in 3.6m lengths

Brass Square (CZ121)



Size Inches	Size Inches
1/8"	1/2"
1/4"	5/8"
5/16"	3/4"
3/8"	1"

Available in 3m random lengths

Brass Hex (CZ121)



Size Inches	Size Inches
3/8"	1/4"
5/8"	1/2"
1"	3/4"

Available in 3-3.6m random lengths

Brass (CZ121) Copper (C106) Sheets

Thickness mm	Brass Sheets	Copper Sheets
3.0mm (10g)	*	*
2.5mm (12g)	*	*
2.0mm (14g)	*	*
1.6mm (16g)	*	*
1.2mm (18g)	*	*
0.9mm (20g)	*	*
0.7mm (22g)		*

Available sheets in 1200mm x 600mm

Clear Polycarb Sheet

2440 x 1220 x 3mm
2440 x 1220 x 4mm
2440 x 1220 x 5mm
2440 x 1220 x 6mm

Nylon 66 Round (Natural)

Size mm	Size mm
6	30
8	40
10	50
12	60
16	70
20	80
25	

Stocked in 2m lengths

Abrasives

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Flap Discs

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Flap Wheels

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Products Available Include:

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Drills Sleeves	Toolbits
Recoil Inserts	SDS Drills
Reamers	Taps
Holesaws	Auger Bits
Masonry Drills	Spiral Flute Taps
Spiral Point Taps	Dies
CSK Bits	Dienuts
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Bandsaw Blades	Conical Drills
Carbide Inserts	

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We have direct accounts with *all major tool brands*

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Locks	Draining Rods
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Torches & Batteries	Gate Fittings
Bitumastic	Cutting Fluid
Hand Cleaner	Loctite
Guttering	Rope
Ladders	Wheelbarrows
Glue	Chainlink Fencing
Marker Pens	Castors
Wire	PVC Tape
Buckets	Palisade Fencing
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Makes Available Include:

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Kango	Hypertherm

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Nibblers	Planers
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Full range of: Cordless - 12v/14.4v/18v/36v
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Products Available Include:

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Conversion Factors

Multiply By	To Convert	To	
25.40	Inches	Millimetres	0.0394
2.540	Inches	Centimetres	0.3937
30.48	Feet	Centimetres	0.0328
0.3048	Feet	Meters	3.2809
0.9144	Yards	Meters	1.0936
1.6093	Miles	Kilometres	0.6214
654.14	Inches ²	Millimetres ²	0.00155
6.4514	Inches ²	Centimetres ²	0.1550
0.0929	Feet ²	Meters ²	10.7643
0.8361	Yards ²	Meters ²	1.1960
16.387	Inches ³	Centimetres ³	0.0610
0.0283	Feet ³	Meters ³	35.316
0.7645	Yards ³	Meters ³	1.3080
0.5679	Pints	Litres	1.761
4.543	Gallons	Litres	0.2201
28.35	Ounces	Grammes	0.0352
0.4536	Pounds	Kilogrammes	2.2045
1.016	Tons	Tonnes	0.9842
1.4882	LBS/Foot	Kg/Metre	0.6720
0.0703	LB/IN ²	Kg/cm ²	14.2233
0.000488	LB/IN ²	Kg/cm ²	0.2048
0.069	LB/IN ²	BAR	14.5
4.4482	LBF	N	0.2248
9.8067	KgF	N	0.1020
0.0703	LBF/IN ²	KgF/cm ²	14.2233
0.0689	LBF/IN ²	BAR	14.5038
6894.76	LBF/IN ²	N/m ²	0.000145
0.9807	KgF/cm ²	BAR	1.0197
9.8067	KgF/cm ²	N/m ²	0.1020
	To Obtain	From	Multiply By

Gauge Table

Gauge SWG	Gauge in	Gauge mm
8	0.160	4.09
9	0.144	3.64
10	0.128	3.25
11	0.116	2.93
12	0.104	2.641
13	0.092	2.324
14	0.080	2.043
15	0.072	1.82
16	0.064	1.626
17	0.056	1.43
18	0.048	1.214
19	0.040	1.021
20	0.036	0.910
21	0.032	0.813
22	0.028	0.707
23	0.024	0.607
24	0.022	0.560
25	0.020	0.511
26	0.018	0.460
27	0.0164	0.420
28	0.0148	0.374
29	0.0136	0.345
30	0.0124	0.315



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