

**John S. Shackleton
(Sheffield) Ltd.**

STEEL STOCKHOLDERS



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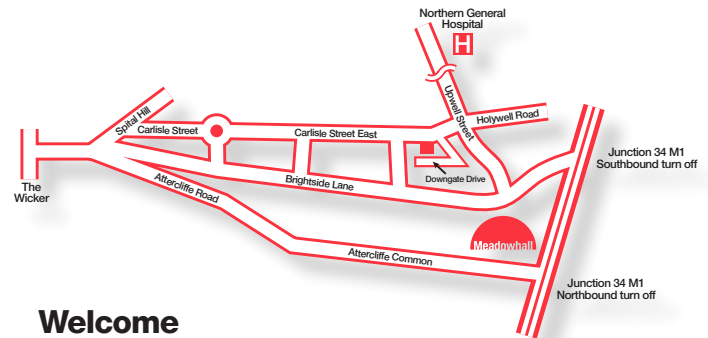
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**STEEL BUYER'S
GUIDE**



Welcome to John S. Shackleton (Sheffield) Ltd

John S. Shackleton is a family run steel stockholder that has been established in the Sheffield area for nearly 50 years. With a wealth of experience in satisfying customer's needs, Shackletons really is the answer for all your steel requirements; with it's extensive stock range, competitive prices and customer service that is second to none.



Welcome

The management at John S. Shackleton has worked hard to put together an extremely knowledgeable, professional and friendly sales team who, with over 150 years combined experience in Steel Stockholding, will look after your every need. No matter how big or small your steel requirement may be, Shackletons will help. Shackletons provide a service to both trade and public, offering a prompt delivery service, or collection if you prefer.

Located in Sheffield, John S. Shackleton is ideally placed to service the Yorkshire area and beyond. Situated close to major motorway networks, it has allowed Shackletons to build a reputation as one of the most reliable steel suppliers anywhere in the local area, and it also enables Shackletons to offer a next day delivery service as far North as York and as far South as Derby.

John S. Shackleton's highly skilled and friendly sales team are available from 8.00am Monday to Friday and will take orders up to 4.00pm for next day delivery on all ex stock items. Shackleton's site at Downgate Drive also houses it's two 'sister' companies, Rigby Wireworks & Co (1982) Limited who specialise in welded mesh and fencing products and Apollo Metals (2004) Limited who specialise in bright products. This means that Shackleton's customers are offered a very diverse stock range to cater for all types of requirement from a simple 'RSJ' for an extension, right through to supply for skip manufacture, large construction projects, gates and railings contracts, general steel fabrication and engineering.

Contents

2-3	Introduction	34	Welded Mesh
7-9	Black Flats	35-37	Expanded Metal
9	Square Edge Convex	38	Perforated Sheet
10	Black Rounds	39	Woven Mesh
10	Black Squares	40	Security Fencing
11	Equal Angles	41	Edging Sections
12	Unequal Angles	42-43	Open Steel Flooring
12	Tee Section	43	Stairtreads
13	Square Hollow Section (Cold Formed)	44-45	Handrail Standards
14	Rectangular Hollow Section (Cold Formed)	46-47	BS1387 Tube
15	Circular Hollow Section (Cold Formed)	48-55	Klamp & Tube Fittings
16	Square Hollow Section (Hot Finished)	56-58	Bright Rounds
17	Rectangular Hollow Section (Hot Finished)	59	Bright Squares
18	Circular Hollow Section (Hot Finished)	60-63	Bright Flat
19-20	Universal Beams	64	Bright Hexagon
20	Joists	65	Bright Angle
21	Universal Columns	65	Key Steel
22	Parallel Flange Channels (P.F.C.)	66-69	ERW Tubes
22	Tapered Channels	70-72	Pallet Feet & Fittings
23-25	Plate Chamfering (Bevelling)	73	Processing Facilities
26-29	Sheet & Plate (Hot Rolled)	74	Mitre Cutting Guide
30	Floor Plate	75-78	Technical Information
31	Sheet (Cold Reduced)		
32	Sheet (Galvanised)		
33	Sheet (Zintec)		

Stock Range

A large range of sizes within this publication are available for an immediate ex stock delivery. Items not available from stock can be obtained within days or weeks subject to our supplying rolling mills lead times. As a continuously growing company we are more than happy to discuss putting specific sizes or lengths into stock for call off, consignment or contract requirements.

Welded Wire Mesh

At Shackleton's sister company (Rigby Wireworks), we stock what we believe to be the most comprehensive range of welded mesh, security fencing, expanded metal, perforated sheet, woven mesh and fencing products in South Yorkshire.

Bright Steels

Shackleton's other sister company (Apollo Metals), stocks an extensive range of Bright and Engineering Bar. This includes not only bright angles, rounds, squares, flats & hexagons but they also keep a large stock of key steels.

Processing

Please see page 73 for full details of the range of processing facilities that Shackletons has available to cater for all your needs.

Certification

Every tonne purchased by John S. Shackleton (Sheffield) Limited is produced to a minimum specification of S235. Many items stocked are S275JR or S355J2H and no matter which piece or size you order full test certification is instantly available to accompany your delivery. If you require any further testing do not hesitate to ask, we will be happy to arrange this for you.

Black Flats

Size mm	kg/m	Size mm	kg/m	Size mm	kg/m
10 x 3	0.26	40 x 3	0.95	60 x 5	2.36
13 x 3	0.33	40 x 5	1.57	60 x 6	2.83
13 x 5	0.51	40 x 6	1.88	60 x 8	3.77
13 x 6	0.61	40 x 8	2.51	60 x 10	4.71
16 x 3	0.39	40 x 10	3.14	60 x 12	5.65
16 x 5	0.63	40 x 12	3.77	60 x 15	7.07
16 x 6	0.75	40 x 15	4.71	60 x 20	9.42
20 x 3	0.49	40 x 20	6.28	60 x 25	11.78
20 x 5	0.79	40 x 25	7.85	60 x 30	14.13
20 x 6	0.94	40 x 30	9.42	60 x 40	18.84
20 x 8	1.26	45 x 5	1.77	65 x 5	2.55
20 x 10	1.57	45 x 6	2.12	65 x 6	3.06
20 x 12	1.88	45 x 8	2.83	65 x 8	4.08
25 x 3	0.63	45 x 10	3.53	65 x 10	5.11
25 x 5	0.98	45 x 12	4.24	65 x 12	6.12
25 x 6	1.18	45 x 15	5.31	65 x 15	7.65
25 x 8	1.57	45 x 20	7.07	65 x 20	10.21
25 x 10	1.96	50 x 3	1.25	65 x 25	12.76
25 x 12	2.36	50 x 5	1.96	70 x 5	2.76
25 x 15	2.94	50 x 6	2.36	70 x 6	3.31
30 x 3	0.75	50 x 8	3.14	70 x 8	4.39
30 x 5	1.18	50 x 10	3.93	70 x 10	5.49
30 x 6	1.41	50 x 12	4.72	70 x 12	6.59
30 x 8	1.88	50 x 15	5.89	70 x 15	8.24
30 x 10	2.36	50 x 20	7.85	70 x 20	10.99
30 x 12	2.83	50 x 25	9.81	70 x 25	13.74
30 x 15	3.53	50 x 30	11.78	70 x 30	16.49
30 x 20	4.71	50 x 40	15.71	70 x 40	21.96
35 x 3	0.85				
35 x 5	1.37				
35 x 8	2.25				
35 x 10	2.75				
35 x 12	3.37				
35 x 15	4.21				

Black Flats

Size mm	kg/m	Size mm	kg/m	Size mm	kg/m
75 x 3	1.77	100 x 3	2.36	130 x 6	6.12
75 x 5	2.97	100 x 5	3.93	130 x 8	8.16
75 x 6	3.55	100 x 6	4.71	130 x 10	10.21
75 x 8	4.71	100 x 8	6.28	130 x 12	12.25
75 x 10	5.89	100 x 10	7.85	130 x 15	15.31
75 x 12	7.05	100 x 12	9.42	130 x 20	20.41
75 x 15	8.85	100 x 15	11.78	130 x 25	25.51
75 x 20	11.81	100 x 20	15.72	130 x 30	30.62
75 x 25	14.71	100 x 25	19.63	130 x 40	40.81
80 x 3	1.89	100 x 30	23.55	130 x 45	45.92
80 x 5	3.14	100 x 35	27.48	130 x 50	51.03
80 x 6	3.77	100 x 40	31.41	140 x 6	6.59
80 x 8	5.02	100 x 45	35.33	140 x 8	8.79
80 x 10	6.28	100 x 50	39.25	140 x 10	10.99
80 x 12	7.54	100 x 60	47.11	140 x 12	13.25
80 x 15	9.42	110 x 5	4.32	140 x 15	16.48
80 x 20	12.56	110 x 6	5.18	140 x 20	21.98
80 x 25	15.71	110 x 8	6.91	140 x 25	27.48
80 x 30	18.84	110 x 10	8.64	150 x 3	3.54
80 x 35	22.02	110 x 12	10.41	150 x 5	5.89
80 x 40	25.12	110 x 15	12.95	150 x 6	7.09
80 x 45	28.26	110 x 20	17.27	150 x 8	9.42
80 x 50	31.41	110 x 25	21.59	150 x 10	11.78
90 x 5	3.53	110 x 30	25.89	150 x 12	14.13
90 x 6	4.24	110 x 40	34.54	150 x 15	17.66
90 x 8	5.65	120 x 5	4.71	150 x 20	23.55
90 x 10	7.07	120 x 6	5.66	150 x 25	29.44
90 x 12	8.48	120 x 8	7.54	150 x 30	35.33
90 x 15	10.61	120 x 10	9.42	150 x 40	47.11
90 x 20	14.13	120 x 12	11.31	150 x 45	52.99
90 x 25	17.68	120 x 15	14.09	150 x 50	58.88
90 x 30	21.22	120 x 20	18.84		
90 x 35	24.73	120 x 25	23.55		
90 x 40	28.26				

Black Flats

Size mm	kg/m	Size mm	kg/m	Size mm	kg/m
160 x 10	12.56	220 x 6	10.36	350 x 10	27.48
160 x 12	15.07	220 x 8	13.82	350 x 12	33.01
160 x 15	18.81	220 x 10	17.27	350 x 15	41.25
160 x 20	25.12	220 x 12	20.72	350 x 20	54.95
160 x 25	31.41	220 x 15	25.91	350 x 25	68.69
180 x 6	8.48	220 x 20	34.54	350 x 30	82.43
180 x 8	11.31	220 x 25	43.18	350 x 40	109.89
180 x 10	14.13	220 x 30	51.81	400 x 10	31.41
180 x 12	16.96	250 x 6	11.78	400 x 12	37.68
180 x 15	21.22	250 x 8	15.69	400 x 15	47.09
180 x 20	28.26	250 x 10	19.59	400 x 20	62.81
180 x 25	35.33	250 x 12	23.55	400 x 25	78.51
180 x 30	42.39	250 x 15	29.44	400 x 30	94.21
180 x 40	56.52	250 x 20	39.25	400 x 40	125.61
180 x 50	70.65	250 x 25	49.06	450 x 10	35.33
200 x 6	9.42	250 x 30	58.88	450 x 12	42.39
200 x 8	12.59	250 x 40	78.51	450 x 15	52.99
200 x 10	15.69	300 x 6	14.13	450 x 20	70.65
200 x 12	18.84	300 x 8	18.84	450 x 25	88.31
200 x 15	23.55	300 x 10	23.55	500 x 10	39.25
200 x 20	31.41	300 x 12	28.26	500 x 12	47.10
200 x 25	39.25	300 x 15	35.33	500 x 15	58.88
200 x 30	47.11	300 x 20	47.15	500 x 20	78.50
200 x 40	62.81	300 x 25	58.88	500 x 25	98.13
200 x 45	70.65	300 x 30	70.65		
200 x 50	78.51	300 x 40	94.22		
		300 x 45	105.98		
		300 x 50	117.75		

Square Edge Convex

Size mm	kg/m	Size mm	kg/m
40 x 12	3.17	50 x 12	3.93

Black Rounds

Size mm	kg/m	Size mm	kg/m	Size mm	kg/m
6	0.22	35	7.55	100	61.70
8	0.39	38	8.91	105	68.00
10	0.62	40	9.86	110	74.60
12	0.89	45	12.51	115	81.50
12.5	0.96	50	15.41	120	88.00
16	1.58	55	18.69	125	96.30
18	2.05	60	22.00	130	104.00
19	2.25	65	26.00	135	112.00
20	2.47	70	30.20	140	121.00
22	2.98	75	34.70	145	130.00
25	3.85	80	39.50	150	139.00
30	5.55	90	49.90		
32	6.31	95	55.60		

Black Squares

Size mm	kg/m	Size mm	kg/m	Size mm	kg/m
6	0.31	30	7.07	60	28.40
8	0.51	32	7.90	65	33.16
10	0.79	35	9.62	70	39.10
12	1.13	38	11.38	75	44.20
16	2.01	40	12.60	80	50.20
20	3.14	45	15.90	85	56.70
22	3.80	50	19.62	90	63.60
25	4.91	55	23.70	100	78.50

Equal Angles

Size mm	kg/m	Size mm	kg/m
13 x 13 x 3	0.55	80 x 80 x 6	7.34
16 x 16 x 3	0.71	80 x 80 x 8	9.63
20 x 20 x 3	0.88	80 x 80 x 10	11.90
25 x 25 x 3	1.12	80 x 80 x 12	14.20
25 x 25 x 5	1.78	90 x 90 x 6	8.30
30 x 30 x 3	1.36	90 x 90 x 8	10.90
30 x 30 x 5	2.18	90 x 90 x 9	12.72
40 x 40 x 3	1.84	90 x 90 x 10	13.40
40 x 40 x 4	2.42	90 x 90 x 12	15.90
40 x 40 x 5	2.97	100 x 100 x 8	12.20
40 x 40 x 6	3.52	100 x 100 x 10	15.00
45 x 45 x 5	3.38	100 x 100 x 12	17.80
50 x 50 x 3	2.33	100 x 100 x 15	21.90
50 x 50 x 5	3.77	120 x 120 x 8	14.70
50 x 50 x 6	4.47	120 x 120 x 10	18.20
50 x 50 x 8	5.82	120 x 120 x 12	21.60
60 x 60 x 5	4.57	120 x 120 x 15	26.60
60 x 60 x 6	5.42	150 x 150 x 10	23.00
60 x 60 x 8	7.09	150 x 150 x 12	27.30
60 x 60 x 10	8.69	150 x 150 x 15	33.80
70 x 70 x 6	6.38	150 x 150 x 18	40.10
70 x 70 x 8	8.36	200 x 200 x 12	36.74
70 x 70 x 9	9.89	200 x 200 x 16	48.50
70 x 70 x 10	10.31	200 x 200 x 18	54.20
75 x 75 x 6	6.87	200 x 200 x 20	59.90
75 x 75 x 8	9.01	200 x 200 x 24	71.10
75 x 75 x 10	11.11		

Unequal Angles

Size mm	kg/m	Size mm	kg/m
40 x 25 x 4	1.93	100 x 65 x 7	8.77
40 x 25 x 5	2.37	100 x 65 x 8	9.94
50 x 40 x 5	3.37	100 x 65 x 10	12.30
50 x 40 x 6	3.99	100 x 75 x 8	10.60
60 x 30 x 5	3.37	100 x 75 x 10	13.00
60 x 30 x 6	3.99	100 x 75 x 12	15.40
60 x 40 x 5	3.77	125 x 75 x 8	12.20
60 x 40 x 6	4.46	125 x 75 x 10	15.00
65 x 50 x 5	4.35	125 x 75 x 12	17.80
65 x 50 x 6	5.16	150 x 75 x 10	17.00
65 x 50 x 8	6.75	150 x 75 x 12	20.20
75 x 50 x 5	4.59	150 x 75 x 15	24.80
75 x 50 x 6	5.65	150 x 90 x 10	18.20
75 x 50 x 8	7.39	150 x 90 x 12	21.60
75 x 50 x 10	9.12	150 x 90 x 15	26.60
80 x 60 x 6	6.37	200 x 100 x 10	23.00
80 x 60 x 7	7.36	200 x 100 x 12	27.30
80 x 60 x 8	8.34	200 x 100 x 15	33.70
100 x 50 x 6	6.85	200 x 100 x 18	47.10
100 x 50 x 8	8.99		
100 x 50 x 10	11.11		

Tee Section

Size mm	kg/m	Size mm	kg/m
25 x 25 x 3	1.19	45 x 45 x 6.5	4.26
30 x 30 x 5	2.16	50 x 50 x 6	4.76
40 x 40 x 5	2.96	60 x 60 x 7	6.25
40 x 40 x 6	3.49	70 x 70 x 8	8.35
45 x 45 x 5.5	3.61	80 x 80 x 9	10.8

Square Hollow Section

Cold Formed Welded

Size mm	kg/m	Size mm	kg/m
20 x 20 x 2.0	1.12	100 x 100 x 3.0	8.96
20 x 20 x 2.5	1.35	100 x 100 x 4.0	12.00
25 x 25 x 2.0	1.43	100 x 100 x 5.0	14.80
25 x 25 x 2.5	1.74	100 x 100 x 6.0	17.60
25 x 25 x 3.0	2.04	100 x 100 x 8.0	22.90
30 x 30 x 2.0	1.75	100 x 100 x 10	27.90
30 x 30 x 2.5	2.14	120 x 120 x 5.0	18.00
30 x 30 x 3.0	2.51	120 x 120 x 6.0	21.31
40 x 40 x 2.0	2.37	120 x 120 x 8.0	27.90
40 x 40 x 2.5	2.92	120 x 120 x 10	34.20
40 x 40 x 3.0	3.45	140 x 140 x 5.0	21.10
40 x 40 x 4.0	4.46	140 x 140 x 8.0	32.90
50 x 50 x 2.0	2.98	150 x 150 x 5.0	22.70
50 x 50 x 2.5	3.71	150 x 150 x 6.0	27.00
50 x 50 x 3.0	4.39	150 x 150 x 8.0	35.40
50 x 50 x 4.0	5.72	150 x 150 x 10.0	43.60
50 x 50 x 5.0	6.97	180 x 180 x 5.0	27.40
60 x 60 x 3.0	5.34	180 x 180 x 6.0	34.20
60 x 60 x 4.0	6.97	180 x 180 x 8.0	43.00
60 x 60 x 5.0	8.54	180 x 180 x 10.0	53.00
70 x 70 x 3.0	6.28	180 x 180 x 12.5	65.20
70 x 70 x 3.6	7.46	200 x 200 x 5.0	30.50
70 x 70 x 5.0	10.11	200 x 200 x 6.0	38.20
75 x 75 x 3.0	7.07	200 x 200 x 8.0	48.00
80 x 80 x 3.0	7.22	200 x 200 x 10.0	59.30
80 x 80 x 3.6	8.59	200 x 200 x 12.5	73.00
80 x 80 x 5.0	11.70	250 x 250 x 6.0	48.10
80 x 80 x 6.0	13.90	250 x 250 x 8.0	60.50
90 x 90 x 3.0	8.01	250 x 250 x 10.0	75.00
90 x 90 x 3.6	9.72	250 x 250 x 12.5	92.60
90 x 90 x 5.0	13.30	300 x 300 x 8.0	73.10
90 x 90 x 6.0	15.76	300 x 300 x 10.0	90.70
		300 x 300 x 12.5	112.0

Rectangular Hollow Section

Cold Formed Welded

Size mm	kg/m	Size mm	kg/m
50 x 25 x 2.5	2.72	120 x 80 x 3.0	9.03
50 x 25 x 3.0	3.22	120 x 80 x 4.0	12.00
50 x 30 x 2.5	2.92	120 x 80 x 5.0	14.80
50 x 30 x 3.0	3.45	120 x 80 x 6.0	17.60
50 x 30 x 4.0	4.46	120 x 80 x 8.0	22.9
50 x 40 x 3.0	3.77	150 x 75 x 5.0	16.20
60 x 30 x 3.0	3.77	150 x 75 x 6.0	19.09
60 x 40 x 2.0	2.98	150 x 100 x 5.0	18.70
60 x 40 x 2.5	3.71	150 x 100 x 6.0	22.30
60 x 40 x 3.0	4.39	150 x 100 x 8.0	29.10
60 x 40 x 4.0	5.72	150 x 100 x 10.0	35.70
75 x 50 x 3.0	5.61	160 x 80 x 5.0	18.00
75 x 50 x 5.0	9.03	160 x 80 x 6.0	21.30
80 x 40 x 2.5	4.26	160 x 80 x 8.0	27.90
80 x 40 x 3.0	5.34	200 x 100 x 5.0	22.70
80 x 40 x 4.0	6.97	200 x 100 x 6.0	27.00
80 x 40 x 5.0	8.54	200 x 100 x 8.0	35.4
90 x 50 x 3.0	6.28	200 x 100 x 10.0	43.60
90 x 50 x 3.6	7.46	250 x 150 x 5.0	30.5
90 x 50 x 5.0	10.11	250 x 150 x 6.0	38.2
100 x 50 x 2.5	5.63	250 x 150 x 8.0	48.0
100 x 50 x 3.0	6.75	250 x 150 x 10	59.3
100 x 50 x 4.0	8.86	250 x 150 x 12.5	73.0
100 x 50 x 5.0	10.90	300 x 100 x 5.0	30.50
100 x 50 x 6.0	12.94	300 x 200 x 6.0	48.10
100 x 60 x 6.0	13.90	300 x 200 x 8.0	60.50
120 x 60 x 3.6	9.72	300 x 200 x 10.0	75.00
120 x 60 x 5.0	13.30	300 x 200 x 12.5	92.60
120 x 60 x 6.0	15.75	400 x 200 x 8.0	73.10
		400 x 200 x 10.0	90.70
		400 x 200 x 12.5	112.00

Circular Hollow Section

Cold Formed Welded

Size mm	kg/m	Size mm	kg/m
21.3 x 3.0	1.35	114.3 x 3.0	8.23
26.9 x 2.0	1.23	114.3 x 3.6	9.83
26.9 x 2.5	1.50	114.3 x 5.0	13.50
26.9 x 3.0	1.87	114.3 x 6.0	16.80
33.7 x 2.0	1.56	139.7 x 3.0	10.11
33.7 x 2.5	1.92	139.7 x 5.0	16.60
33.7 x 3.0	2.27	139.7 x 6.0	19.80
33.7 x 4.0	2.93	139.7 x 8.0	26.00
42.4 x 2.5	2.46	139.7 x 10.0	32.00
42.4 x 3.0	2.91	168.3 x 5.0	20.10
42.4 x 4.0	3.79	168.3 x 6.0	25.20
48.3 x 2.5	2.82	168.3 x 8.0	31.60
48.3 x 3.0	3.35	168.3 x 10.0	39.00
48.3 x 4.0	4.37	193.7 x 5.0	23.30
48.5 x 5.0	5.34	193.7 x 6.0	29.10
60.3 x 2.5	3.56	193.7 x 8.0	36.60
60.3 x 3.0	4.24	193.7 x 10.0	45.30
60.3 x 4.0	5.55	219.1 x 5.0	26.40
60.3 x 5.0	6.82	219.1 x 6.0	33.10
76.1 x 2.5	4.54	219.1 x 8.0	41.60
76.1 x 3.0	5.41	219.1 x 10.0	51.60
76.1 x 4.0	7.11	219.1 x 12.5	63.70
76.1 x 5.0	8.77		
88.9 x 3.0	6.36		
88.9 x 4.0	8.38		
88.9 x 5.0	10.35		

Square Hollow Section

Hot Finished Welded

Size mm	kg/m	Size mm	kg/m
40 x 40 x 3.2	3.66	90 x 90 x 5.0	13.30
40 x 40 x 4.0	4.46	90 x 90 x 6.3	16.40
40 x 40 x 5.0	5.40	90 x 90 x 8.0	20.40
50 x 50 x 3.2	4.66	100 x 100 x 4.0	12.00
50 x 50 x 4.0	5.72	100 x 100 x 5.0	14.80
50 x 50 x 5.0	6.97	100 x 100 x 6.3	18.40
50 x 50 x 6.3	8.49	100 x 100 x 8.0	22.90
60 x 60 x 3.2	5.67	100 x 100 x 10.0	27.90
60 x 60 x 4.0	6.97	100 x 100 x 12.5	33.00
60 x 60 x 5.0	8.54	120 x 120 x 4.0	14.40
60 x 60 x 6.3	10.50	120 x 120 x 5.0	18.00
60 x 60 x 8.0	12.80	120 x 120 x 6.3	22.30
70 x 70 x 3.0	6.28	120 x 120 x 8.0	27.90
70 x 70 x 3.6	7.46	120 x 120 x 10.0	34.20
70 x 70 x 5.0	10.10	120 x 120 x 12.5	41.60
70 x 70 x 6.3	12.50	140 x 140 x 5.0	21.10
70 x 70 x 8.0	15.30	140 x 140 x 6.3	26.30
76.2 x 76.2 x 3.2	7.30	140 x 140 x 8.0	32.90
76.2 x 76.2 x 4.0	9.01	140 x 140 x 10.0	40.40
76.2 x 76.2 x 4.9	10.90	140 x 140 x 12.5	49.50
76.2 x 76.2 x 6.3	13.70	150 x 150 x 6.3	28.30
80 x 80 x 3.0	7.22	150 x 150 x 8.0	35.40
80 x 80 x 3.6	8.59	150 x 150 x 10.0	43.60
80 x 80 x 4.0	9.41	150 x 150 x 12.5	53.40
80 x 80 x 5.0	11.70	150 x 150 x 5.0	22.70
80 x 80 x 6.3	14.40	180 x 180 x 5.0	27.40
80 x 80 x 8.0	17.80	180 x 180 x 6.3	34.20
80 x 80 x 10.0	21.14	180 x 180 x 8.0	43.00
90 x 90 x 3.6	9.72	180 x 180 x 10.0	53.00
90 x 90 x 4.0	10.70	180 x 180 x 12.5	65.20

Rectangular Hollow Section

Hot Finished Welded

Size mm	kg/m	Size mm	kg/m
50 x 30 x 3.2	3.66	100 x 50 x 3.2	7.18
50 x 30 x 4.0	4.46	100 x 50 x 4.0	8.86
50 x 30 x 5.0	5.40	100 x 50 x 5.0	10.90
60 x 40 x 3.0	4.39	100 x 50 x 6.3	13.40
60 x 40 x 3.2	4.66	100 x 50 x 8.0	16.60
60 x 40 x 4.0	5.72	100 x 50 x 10.0	19.57
60 x 40 x 5.0	6.97	100 x 60 x 3.0	7.22
60 x 40 x 6.3	8.49	100 x 60 x 3.6	8.59
76.2 x 50.8 x 3.2	6.02	100 x 60 x 5.0	11.70
76.2 x 50.8 x 4.0	7.41	100 x 60 x 6.3	14.40
76.2 x 50.8 x 4.9	8.93	100 x 60 x 8.0	17.80
76.2 x 50.8 x 6.3	11.20	100 x 60 x 10.0	21.14
80 x 40 x 3.2	5.62	120 x 60 x 3.6	9.72
80 x 40 x 4.0	6.90	120 x 60 x 5.0	13.30
80 x 40 x 5.0	8.42	120 x 60 x 6.3	16.40
80 x 40 x 6.3	10.30	120 x 60 x 8.0	20.40
80 x 40 x 8.0	12.50	120 x 60 x 10.0	24.30
90 x 50 x 3.0	6.28	120 x 80 x 5.0	14.80
90 x 50 x 3.6	7.46	120 x 80 x 6.3	18.40
90 x 50 x 5.0	10.10	120 x 80 x 8.0	22.90
90 x 50 x 6.3	12.50	120 x 80 x 10.0	27.90
90 x 50 x 8.0	15.30	120 x 80 x 12.5	33.00

Circular Hollow Section

Hot Finished Welded

Size mm	kg/m	Size mm	kg/m
21.3 x 3.2	1.43	114.3 x 4.0	10.88
26.9 x 3.2	1.87	114.3 x 5.0	13.50
33.7 x 2.6	1.99	114.3 x 6.3	16.80
33.7 x 3.2	2.41	114.3 x 8.0	20.97
33.7 x 4.0	2.93	114.3 x 10.0	25.72
42.4 x 2.6	2.55	139.7 x 5.0	16.60
42.4 x 3.2	3.09	139.7 x 6.3	20.70
42.4 x 4.0	3.79	139.7 x 8.0	26.00
48.3 x 3.2	3.56	139.7 x 10.0	32.00
48.3 x 4.0	4.37	168.3 x 5.0	20.10
48.3 x 5.0	5.34	168.3 x 6.3	25.20
60.3 x 3.2	4.51	168.3 x 8.0	31.60
60.3 x 4.0	5.55	168.3 x 10.0	39.00
60.3 x 5.0	6.82	168.3 x 12.5	48.00
76.1 x 3.2	5.75	193.7 x 5.0	23.30
76.1 x 4.0	7.11	193.7 x 6.3	29.10
76.1 x 5.0	8.77	193.7 x 8.0	36.60
88.9 x 3.2	6.76	193.7 x 10.0	45.30
88.9 x 4.0	8.38	193.7 x 12.5	55.90
88.9 x 5.0	10.30	219.1 x 6.3	33.10
88.9 x 6.3	12.80	219.1 x 8.0	41.60
101.6 x 6.3	14.81	219.1 x 10.0	51.60
114.3 x 3.6	9.83	219.1 x 12.5	63.70

Universal Beams

Description	kg/m	Depth of section mm	Width of section mm	Thickness of web mm	Thickness of flange mm
127 x 76 x 13	13.0	127.0	76.0	4.0	7.6
152 x 89 x 16	16.0	152.4	88.7	4.5	7.7
178 x 102 x 19	19.0	177.8	101.2	4.8	7.9
203 x 102 x 23	23.1	203.2	101.8	5.4	9.3
203 x 133 x 25	25.1	203.2	133.2	5.7	7.8
203 x 133 x 30	30.0	206.8	133.9	6.4	9.6
254 x 102 x 22	22.0	254.0	101.6	5.7	6.8
254 x 102 x 25	25.2	257.2	101.9	6.0	8.4
254 x 102 x 28	28.3	260.4	102.2	6.3	10.0
254 x 146 x 31	31.1	251.4	146.1	6.0	8.6
254 x 146 x 37	37.0	256.0	146.4	6.3	10.9
254 x 146 x 43	43.0	259.6	147.3	7.2	12.7
305 x 102 x 25	24.8	305.1	101.6	5.8	7.0
305 x 102 x 28	28.2	308.7	101.8	6.0	8.8
305 x 102 x 33	32.8	312.7	102.4	6.6	10.8
305 x 127 x 37	37.0	304.4	123.3	7.1	10.7
305 x 127 x 42	41.9	307.2	124.3	8.0	12.1
305 x 127 x 48	48.1	311.0	125.3	9.0	14.0
305 x 165 x 40	40.3	303.4	165.0	6.0	10.2
305 x 165 x 46	46.1	306.6	165.7	6.7	11.8
305 x 165 x 54	54.0	310.4	166.9	7.9	13.7
356 x 127 x 33	33.1	349.0	125.4	6.0	8.5
356 x 127 x 39	39.1	353.4	126.0	6.6	10.7
356 x 171 x 45	45.0	351.4	171.1	7.0	9.7
356 x 171 x 51	51.0	355.0	171.5	7.4	11.5
356 x 171 x 57	57.0	358.0	172.2	8.1	13.0
356 x 171 x 67	67.1	363.4	173.2	9.1	15.7
406 x 140 x 39	39.0	398.0	141.8	6.4	8.6
406 x 140 x 46	46.0	403.2	142.2	6.8	11.2

Universal Beams

Description	kg/m	Depth of section mm	Width of section mm	Thickness of web mm	Thickness of flange mm
406 x 178 x 54	54.1	402.6	177.7	7.7	10.9
406 x 178 x 60	60.1	406.4	177.9	7.9	12.8
406 x 178 x 67	67.1	409.4	178.8	8.8	14.3
406 x 178 x 74	74.2	412.8	179.5	9.5	16.0
457 x 152 x 52	52.3	449.8	152.4	7.6	10.9
457 x 152 x 60	59.8	454.6	152.9	8.1	13.3
457 x 152 x 67	67.2	458.0	153.8	9.0	15.0
457 x 152 x 74	74.2	462.0	154.4	9.6	17.0
457 x 152 x 82	82.1	465.8	155.3	10.5	18.9
457 x 191 x 67	67.1	453.4	189.9	8.5	12.7
457 x 191 x 74	74.3	457.0	190.4	9.0	14.5
457 x 191 x 82	82.0	460.0	191.3	9.9	16.0
457 x 191 x 89	89.3	463.4	191.9	10.5	17.7
457 x 191 x 98	98.3	467.2	192.8	11.4	19.6
533 x 210 x 82	82.2	528.3	208.8	9.60	13.2
533 x 210 x 92	92.1	533.1	209.3	10.1	15.6
533 x 210 x 101	101.0	536.7	210.0	10.8	17.4
533 x 210 x 109	109.0	539.5	210.8	11.6	18.8
533 x 210 x 122	122.0	544.5	211.9	12.7	21.3
610 x 229 x 101	101.2	602.6	227.6	10.5	14.8
610 x 229 x 113	113.0	607.6	228.2	11.1	17.3
610 x 229 x 125	125.1	612.2	229.0	11.9	19.6
610 x 229 x 140	139.9	617.2	230.2	13.1	22.1

Joists

Description	kg/m	Depth of section mm	Width of section mm	Thickness of web mm	Thickness of flange mm
102 x 44 x 7	7.5	101.6	44.5	4.3	6.1

Universal Columns

Description	kg/m	Depth of section mm	Width of section mm	Thickness of web mm	Thickness of flange mm
152 x 152 x 23	23.0	152.4	152.2	5.8	6.8
152 x 152 x 30	30.0	157.6	152.2	6.5	9.4
152 x 152 x 37	37.0	161.8	154.4	8.0	11.5
203 x 203 x 46	46.1	203.2	203.6	7.2	11.0
203 x 203 x 52	52.0	206.2	204.3	7.9	12.5
203 x 203 x 60	60.0	209.6	205.8	9.4	14.2
203 x 203 x 71	71.0	215.8	206.4	10.0	17.3
203 x 203 x 86	86.1	222.2	209.1	12.7	20.5
254 x 254 x 73	73.1	254.1	254.6	8.6	14.2
254 x 254 x 89	88.9	260.3	256.3	10.3	17.3
254 x 254 x 107	107.1	266.7	258.3	12.8	20.5
254 x 254 x 132	132.0	276.3	261.3	15.3	25.3
254 x 254 x 167	167.1	289.1	265.2	19.2	31.7
305 x 305 x 97	96.9	307.9	305.3	9.9	15.4
305 x 305 x 118	117.9	314.5	307.4	12.0	18.7
305 x 305 x 137	136.9	320.5	309.2	13.8	21.7
305 x 305 x 158	158.1	327.1	311.2	15.8	25.0
305 x 305 x 198	198.1	339.9	314.5	19.1	31.4
305 x 305 x 240	240.0	352.5	318.4	23.0	37.7
305 x 305 x 283	282.9	365.3	322.2	26.8	44.1
356 x 368 x 129	129.0	355.6	368.6	10.4	17.5
356 x 368 x 153	152.9	362.0	370.5	12.3	20.7
356 x 368 x 177	177.0	368.2	372.6	14.4	23.8
356 x 368 x 202	201.9	374.6	374.7	16.5	27.0

Parallel Flange Channels (P.F.C)

Description	kg/m	Depth of section mm	Width of section mm	Thickness of web mm	Thickness of flange mm
100 x 50 x 10	10.20	100	50	5.0	8.5
125 x 65 x 15	14.80	125	65	5.5	9.5
150 x 75 x 18	17.90	150	75	5.5	10.0
150 x 90 x 24	23.90	150	90	6.5	12.0
180 x 75 x 20	20.30	180	75	6.0	10.5
180 x 90 x 26	26.10	180	90	6.5	12.5
200 x 75 x 23	23.40	200	75	6.0	12.5
200 x 90 x 30	29.70	200	90	7.0	14.0
230 x 75 x 26	25.70	230	75	6.5	12.5
230 x 90 x 32	32.20	230	90	7.5	14.0
260 x 75 x 28	27.60	260	75	7.0	12.0
260 x 90 x 35	34.80	260	90	8.0	14.0
300 x 90 x 41	41.40	300	90	9.0	15.5
300 x 100 x 46	45.50	300	100	9.0	16.5
380 x 100 x 54	54.00	380	100	9.5	17.5
430 x 100 x 64	64.40	430	100	11.0	19.0

Tapered Channels

Description	kg/m	Depth of section mm	Width of section mm	Thickness of web mm	Thickness of flange mm
30 x 15 x 5	1.90	30	15		
40 x 20 x 5	2.69	40	20	5.5	5.5
50 x 25 x 5	3.98	50	25	6.0	6.0
50 x 38 x 5	5.15	50	38	7.0	7.0
76 x 38 x 6.7	6.7	76.2	38.1	5.1	6.8
80 x 45 x 8.64	8.9	80	45	6.0	8.0

Plate Chamfering (Bevelling)

Edge 46 - High speed plate bevelling machine with variable angle head

Range: 1/4" - 2.3/8" thickness (6-60mm)

Bevel Angle: from 15° to 60°

Materials: Any type of steel and aluminium

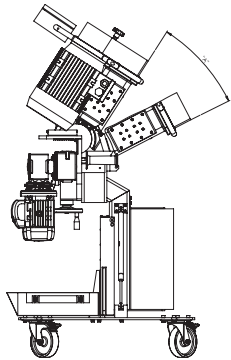
Power: Electric 3 phase

Note: The Edge 46 High Speed plate bevelling machine is the latest technology in portable plate edge bevelling. The Edge 46 is the most powerful portable plate edge beveller in the world market place, capable of bevelling plate thicknesses of up to 60mm with a maximum bevel width of an incredible 46mm - on any angle and any material!

Smooth weld ready bevels are achieved with minimum effort in the quickest possible times. There is no need to re-grind the bevel and no dust or fumes from the flame cutting. Also, due to the high speed bevel there is no thermal distortion, saving time and money.

The Edge 46 has a unique design; special benefits and features include the variable angle bevel head from 15° to 60° this high speed, tipped insert, bevel head is powered by two 2.2KW 3 phase motors. The Edge 46 self feeding system is also powered and driven by an additional 2 motors which drive the automatic feeding system from the underside of the plate, this is ideal for large sheets of plate.

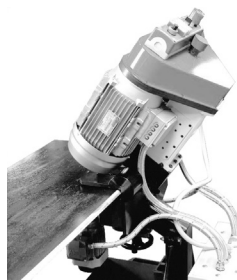
The Edge 46 is portable, it is easily manoeuvred on its 4 castor wheels, therefore eliminating the use of a crane or lifting device and for ease of set-up the Edge 46 is adjustable in height. All materials of plate can be machined, including Carbon steel, Stainless steel, Super Duplex and Aluminium



The Edge 46 is equipped with a variable head which allows the change of the bevel angle from 15 to 60 degrees in seconds, with no additional tooling required.



The Edge 46 produces bevels using an insert-type high speed milling head, enabling a high material removal rate, while keeping replacement consumable costs to a minimum. Different tips are available to machine all types of material.



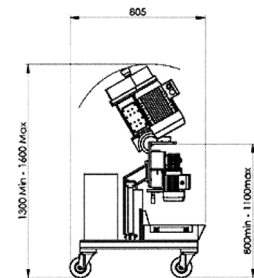
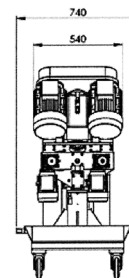
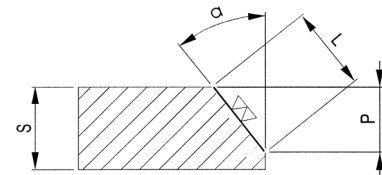
The Edge 46 is ideally suited to heavy duty jobs on very heavy wall thickness plate. Once mounted on the plate edge, the machine will travel along the plate edge automatically, without any operator intervention.

Technical Features

Power	Volts / Hz / Phase	380* / 50 / 3
Beveling speed	Surface metres / min	2.4
Electric motor power	Kw	2.2
Plate thickness	Inches	1/4 - 2 3/8"
	Millimetres	6-60mm
Bevel angle	Degrees	15-60°
Weight	Kg	65

*Different Voltage available on request

Bevel Angle	Max Plate W.t.	Max Bevel	Performance*
15°	60mm	46mm	44.5mm
30°	60mm	46mm	39.8mm
37°30'	60mm	46mm	36.5mm
45°	60mm	46mm	32.5mm
55°	60mm	46mm	26.4mm
60°	60mm	46mm	23.1mm



Sheet & Plate Hot Rolled

Thickness mm	Size mm	Weight kg/m2*
1.6	2000 x 1000	12.56
	2500 x 1250	12.56
	3000 x 1500	12.56
2.0	2000 x 1000	15.70
	2500 x 1250	15.70
	3000 x 1500	15.70
2.5	2000 x 1000	19.63
	2500 x 1250	19.63
3	2000 x 1000	23.55
	2500 x 1250	23.55
	3000 x 1500	23.55
	3660 x 1830	23.55
	4000 x 2000	23.55
4	2000 x 1000	31.40
	2500 x 1250	31.40
	3000 x 1500	31.40
	4000 x 2000	31.40
5	2000 x 1000	39.25
	2500 x 1250	39.25
	3000 x 1500	39.25
	3660 x 1830	39.25
	4000 x 2000	39.25
	6000 x 2500	39.25
6	2000 x 1000	47.10
	2500 x 1250	47.10
	3000 x 1500	47.10
	3660 x 1830	47.10
	4000 x 2000	47.10
	6000 x 2000	47.10
	6000 x 2500	47.10

*These figures are approximate and are given for guidance only.

Sheet & Plate Hot Rolled

Thickness mm	Size mm	Weight kg/m2*
8	2000 x 1000	62.80
	2500 x 1250	62.80
	3000 x 1500	62.80
	4000 x 2000	62.80
	6000 x 2000	62.80
	5000 x 2500	62.80
10	6000 x 2500	62.80
	2000 x 1000	78.50
	2500 x 1250	78.50
	3000 x 1500	78.50
	4000 x 2000	78.50
	6000 x 2000	78.50
	5000 x 2500	78.50
12.5	6000 x 2500	78.50
	2000 x 1000	98.125
	2500 x 1250	98.125
	3000 x 1500	98.125
	4000 x 2000	98.125
	6000 x 2000	98.125
15	5000 x 2500	98.125
	6000 x 2500	98.125
	2000 x 1000	117.50
	2500 x 1250	117.50
	3000 x 1500	117.50
	4000 x 2000	117.50
	6000 x 2000	117.50
	5000 x 2500	117.50
	6000 x 2500	117.50

*These figures are approximate and are given for guidance only.

Sheet & Plate

Hot Rolled

Thickness mm	Size mm	Weight kg/m2*
20	2000 x 1000	157.00
	2500 x 1250	157.00
	3000 x 1500	157.00
	4000 x 2000	157.00
	6000 x 2000	157.00
	5000 x 2500	157.00
	6000 x 2500	157.00
22	2000 x 1000	172.70
	2500 x 1250	172.70
	4000 x 2000	172.70
	5000 x 2500	172.70
25	2000 x 1000	196.25
	2500 x 1250	196.25
	3000 x 1500	196.25
	4000 x 2000	196.25
	6000 x 2000	196.25
	5000 x 2500	196.25
	6000 x 2500	196.25
30	2000 x 1000	235.50
	2500 x 1250	235.50
	3000 x 1500	235.50
	4000 x 2000	235.50
	6000 x 2000	235.50
	5000 x 2500	235.50
	6000 x 2500	235.50
	6000 x 2500	235.50

Sheet & Plate

Hot Rolled

Thickness mm	Size mm	Weight kg/m2*
40	2000 x 1000	314.00
	2500 x 1250	314.00
	3000 x 1500	314.00
	4000 x 2000	314.00
	6000 x 2000	314.00
	5000 x 2500	314.00
	6000 x 2500	314.00
50	2000 x 1000	392.50
	2500 x 1250	392.50
	3000 x 1500	392.50
	4000 x 2000	392.50
	6000 x 2000	392.50
	5000 x 2500	392.50
	6000 x 2500	392.50
60	2000 x 1000	471.00
	2500 x 1250	471.00
	3000 x 1500	471.00
	4000 x 2000	471.00
	6000 x 2000	471.00
	5000 x 2500	471.00
	6000 x 2500	471.00

*These figures are approximate and are given for guidance only.

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Floor Plate

Thickness mm	Size mm	Weight kg/m2*
3	2000 x 1000	26.19
	2500 x 1250	26.19
	3000 x 1500	26.19
4.5	2000 x 1000	37.97
	2500 x 1250	37.97
	3000 x 1500	37.97
	4000 x 1750	37.97
	4000 x 1830	37.97
6	2000 x 1000	49.74
	2500 x 1250	49.74
	3000 x 1500	49.74
	4000 x 1750	49.74
	4000 x 1830	49.74
8	2000 x 1000	65.44
	2500 x 1250	65.44
	3000 x 1500	65.44
	4000 x 1750	65.44
	4000 x 1830	65.44
10	2000 x 1000	81.14
	2500 x 1250	81.14
	3000 x 1500	81.14
	4000 x 1750	81.14
	4000 x 1830	81.14
12.5	2000 x 1000	100.71
	2500 x 1250	100.71
	3000 x 1500	100.71
	4000 x 1750	100.71

*These figures are approximate and are given for guidance only.

Sheet Cold Reduced

Thickness mm	Size mm	Weight kg/m2*
0.5	2000 x 1000	3.93
	2500 x 1250	3.93
0.6	2000 x 1000	4.71
	2500 x 1250	4.71
0.7	2000 x 1000	5.50
	2500 x 1250	5.50
0.8	2000 x 1000	6.28
	2500 x 1250	6.28
1.0	2000 x 1000	7.85
	2500 x 1250	7.85
	3000 x 1500	7.85
1.2	2000 x 1000	9.42
	2500 x 1250	9.42
	3000 x 1500	9.42
1.6	2000 x 1000	12.56
	2500 x 1250	12.56
	3000 x 1500	12.56
2.0	2000 x 1000	15.70
	2500 x 1250	15.70
	3000 x 1500	15.70
2.5	2000 x 1000	19.63
	2500 x 1250	19.63
	3000 x 1500	19.63
3.0	2000 x 1000	23.55
	2500 x 1250	23.55
	3000 x 1500	23.55

*These figures are approximate and are given for guidance only.

Sheet Galvanised

Thickness mm	Size mm	Weight kg/m2*
0.6	2000 x 1000	4.71
	2500 x 1250	4.71
0.8	2000 x 1000	6.28
	2500 x 1250	6.28
0.9	2000 x 1000	7.07
	2500 x 1250	7.07
1.0	2000 x 1000	7.85
	2500 x 1250	7.85
	3000 x 1500	7.85
1.2	2000 x 1000	9.42
	2500 x 1250	9.42
	3000 x 1500	9.42
1.5	2000 x 1000	11.78
	2500 x 1250	11.78
	3000 x 1500	11.78
1.6	2000 x 1000	12.56
	2500 x 1250	12.56
	3000 x 1500	12.56
2.0	2000 x 1000	15.70
	2500 x 1250	15.70
	3000 x 1500	15.70
3.0	2000 x 1000	23.55
	2500 x 1250	23.55
	3000 x 1500	23.55

*These figures are approximate and are given for guidance only.

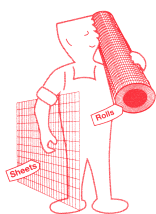
Sheet Electro-Zinc (Zintec)

Thickness mm	Size mm	Weight kg/m2*
0.7	2000 x 1000	5.50
	2500 x 1250	5.50
0.8	2000 x 1000	6.28
	2500 x 1250	6.28
0.9	2000 x 1000	7.07
	2500 x 1250	7.07
1.0	2000 x 1000	7.85
	2500 x 1250	7.85
1.2	2000 x 1000	9.42
	2500 x 1250	9.42
	3000 x 1500	9.42
1.6	2000 x 1000	12.56
	2500 x 1250	12.56
	3000 x 1500	12.56
2.0	2000 x 1000	15.70
	2500 x 1250	15.70
	3000 x 1500	15.70
2.5	2000 x 1000	19.63
	2500 x 1250	19.63
	3000 x 1500	19.63
3.0	2000 x 1000	23.55
	2500 x 1250	23.55
	3000 x 1500	23.55

*These figures are approximate and are given for guidance only.

Welded Mesh

Self Colour & Galvanised (after manufacture)



Panel sizes available with flush edges.			
8ft x 4ft	12ft x 6ft	6ft x 3ft	12ft x 7ft
2440 x 1220 mm	3660 x 1830 mm	1830 x 915 mm	3660 x 2135 mm

1" x 1" x 12g	•	•	•	•
3" x 1" x 12g	•	•	•	•
2" x 1" x 12g	•	•	•	•
2" x 2" x 12g	•	•	•	•
3" x 1/2" x 12g	•	•	•	•
1" x 1" x 10g	•	•	•	•
1.1/2" x 1.1/2" x 10g	•			
2" x 1" x 10g	•	•	•	•
2" x 2" x 10g	•	•	•	•
3" x 1/2" x 10g	•	•	•	•
3" x 1" x 10g	•	•	•	•
3" x 3" x 10g	•	•	•	•
4" x 4" x 10g	•	•	•	•
1" x 1" x 8g	•			
2" x 1" x 8g	•	•	•	•
2" x 2" x 8g	•	•	•	•
3" x 1/2" x 8g	•	•	•	•
3" x 3" x 8g	•	•	•	•
2" x 2" x 6g	•	•	•	•
3" x 3" x 6g	•	•	•	•
3" x 6" x 6g	•	•	•	•

Expanded Metal

Conventional Meshes

Pattern No.	LWD (mm)	SWD (mm)	Strand Width	Thick-ness	Kg/ m2	% Open Area	Stock Size (mm)
220	5.84	3.50	0.79	0.60	2.11	55	1250 x 1250
203	10.24	5.64	0.79	0.60	1.31	72	1250 x 1250
209	10.24	5.64	1.55	1.00	4.30	45	1250 x 1250
199	14.29	5.64	1.17	1.00	3.25	59	1250 x 1250
798	19.05	7.43	1.70	1.00	3.59	54	2500 x 1250
1196	28.58	9.52	1.98	1.20	3.92	58	2440 x 1220
1292	30.48	12.70	4.75	2.50	14.67	25	1220 x 1525
1294	30.48	11.72	2.36	1.60	5.06	60	2440 x 1220
1295	30.48	11.72	1.98	1.60	4.24	66	2440 x 1220
1296	30.48	11.72	2.36	1.20	3.79	60	2440 x 1220
1298	30.48	11.72	1.63	1.00	2.17	72	2440 x 1220
1299	30.48	11.72	1.19	1.20	1.92	80	2440 x 1220
1576	38.10	16.93	4.75	3.00	13.20	44	2440 x 1220
1595	38.10	16.93	3.08	1.60	4.57	64	2440 x 1220
1597	38.10	16.48	2.25	1.60	3.43	73	2440 x 1220
1598	38.10	16.93	2.31	1.20	2.57	73	2440 x 1220
2088	50.80	22.58	3.89	3.00	8.09	66	2440 x 1220
2089	50.80	22.58	3.12	3.00	6.52	72	2440 x 1220
2091	50.80	22.58	2.52	2.50	4.37	78	2440 x 1220
2093	50.80	22.58	3.05	1.60	3.39	73	2440 x 1220
2096	50.80	22.58	2.34	1.20	1.95	79	2440 x 1220
3092	76.20	33.87	3.58	3.00	4.97	79	2440 x 1220
3095	76.20	33.87	3.89	3.00	5.39	77	2440 x 1220
3396	85.73	40.64	3.18	3.00	3.67	84	2440 x 1220
3398	85.73	39.33	2.59	2.50	2.59	87	2440 x 1220
4097	101.60	50.80	3.35	3.00	3.11	87	2440 x 1220
4599	114.30	39.33	4.6	3.00	5.48	77	2440 x 1220

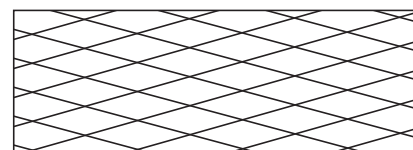
Expanded Metal Flat Meshes

Pattern No.	LWD	SWD	Strand Width	Thick-ness	Kg/ m2	% Open Area	Stock Size
706F	2.79	0.81	0.76	0.58	3.01	35	1250 x 1250
226F	3.81	2.03	0.79	0.58	2.11	56	1250 x 1250
217F	6.85	3.56	1.30	0.94	3.00	58	1250 x 2500
0794F	14.22	4.83	1.85	0.96	3.30	57	1250 x 2500
1279F	23.11	5.84	3.20	1.52	6.27	48	2440 x 1220
1280F	24.38	7.11	2.39	1.14	3.64	60	2440 x 1220
1281F	24.38	7.87	2.06	1.47	4.07	66	2440 x 1220
1282F	24.38	7.62	2.08	1.14	3.17	65	2440 x 1220
1584F	32.77	10.92	3.18	1.50	4.41	63	2440 x 1220
1585F	33.53	12.45	2.34	1.14	2.47	73	2440 x 1220
2073F	42.93	14.22	4.60	2.69	8.59	61	2440 x 1220
2074F	39.12	18.29	4.72	2.74	7.55	66	1220 x 2440
2076F	43.43	18.03	2.31	1.14	1.85	80	2440 x 1220
2077F	43.18	17.27	3.23	1.45	3.24	73	2440 x 1220
2079F	43.94	18.80	2.36	1.45	2.38	80	2440 x 1220
2080F	42.93	20.32	1.73	1.45	1.74	85	2440 x 1220
2490F	45.00	17.00	6.00	3.70	13.16	54	1219 x 2440
2493F	52.07	20.32	6.63	1.45	2.13	82	1220 x 2440
3084F	68.83	28.70	2.83	1.45	1.88	84	2440 x 1220
3085F	66.55	30.23	2.03	1.45	1.35	88	2440 x 1220
3393F	77.47	27.18	6.53	2.82	7.15	68	2440 x 1220
3394F	69.84	37.08	5.49	2.16	3.97	77	1220 x 2440
3395F	76.96	32.77	3.81	1.85	2.80	81	2440 x 1220

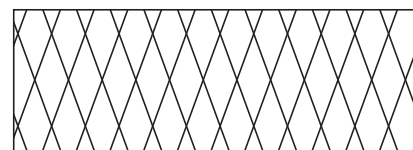
Expanded Metal Mild Steel Walkway

Pattern No.	LWD (mm)	SWD (mm)	Strand Width	Thick-ness	Kg/ m2	% Open Area	Stock Size (mm)
2496	60.96	25.40	6.10	4.50	17.29	51	2440 x 1220
4896	121.92	33.87	6.35	4.50	13.23	65	2440 x 1220
4897	121.92	33.87	7.90	4.50	16.45	58	2440 x 1220
4898	121.92	33.87	9.53	4.50	19.83	50	2440 x 1220
4899	121.92	35.85	9.53	6.00	24.98	50	1220 x 2440

We also keep Aluminium and Stainless Steel Walkway, as well as Gripwalk and Supergrip. Further details are available on request.

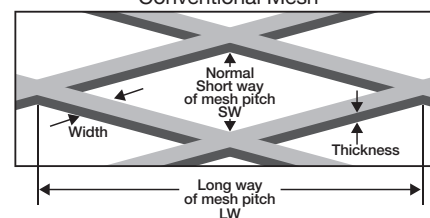


This sheet is 2440mm LWD and 1220mm SWD

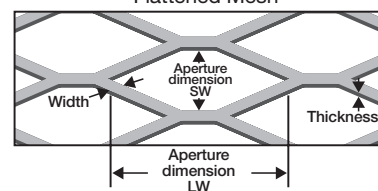


This sheet is 1220mm LWD and 2440mm SWD

Conventional Mesh



Flattened Mesh



Perforated Sheet

(Mild Steel, Galvanised, Aluminium & Stainless Steel)

Staggered Pitch

Hole Dia mm (R)	Pitch mm (T)	Open Area %
1.0	2.0	23
1.2	2.25	25
1.5	2.75	26
2.0	3.0	40
2.0	3.5	30
2.0	4.0	23
2.5	3.5	46
3.0	4.0	50
3.0	5.0	32
4.0	5.0	58
4.0	6.0	40
4.0	7.0	29
5.0	6.0	63
5.0	7.0	45
5.0	8.0	35
5.0	10.0	23
6.0	8.5	45
6.0	10.0	32
6.0	12.0	23
8.0	11.0	47
8.0	12.0	40
10.0	13.0	53
10.0	15.0	40
10.0	18.0	28
12.0	13.0	77
12.0	17.0	45
15.0	21.0	46
20.0	27.0	51
20.0	30.0	39

A comprehensive range of square and rectangular perforated sheets are also available from stock

Woven Mesh

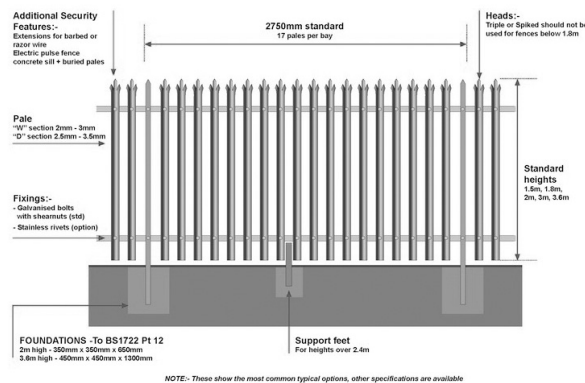
Holes per 25.4mm	Wire diameter mm	Aperture mm
2	2.00	10.70
2	1.60	11.70
3	1.60	6.87
4	1.25	5.10
5	1.40	3.68
6	0.90	3.33
8	0.90	2.28
8	0.71	2.47
9	1.25	1.57
10	0.56	1.98
12	0.56	1.56
12	0.50	1.62
14	0.425	1.39
16	0.450	1.14
18	0.425	0.986
20	0.375	0.985
24	0.355	0.703
30	0.280	0.567
36	0.250	0.456
40	0.236	0.399
60	0.170	0.253
80	0.132	0.186
100	0.110	0.144
120	0.100	0.112
150	0.080	0.089
200	0.050	0.077
250	0.040	0.062
300	0.035	0.050
400	0.030	0.034

Security Fencing

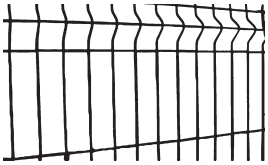
We keep a range of security fencing systems, including;

- Palisade
- Prison Mesh (358)
- V Mesh
- Twin Wire
- Bow Top
- Chain Link
- Razor Barb Products

Palisade Fencing System



V Mesh Fencing System



Gabions

We stock gabions in a range of sizes.



Edging Section

Reference		Size mm	Thick mm	Gap mm	Weight Kg/m	Standard Length mm
UF1		6.35	1.20	1.78	0.13	2490
UF2		6.35	0.55	1.78	0.07	1905
UF3		12.70	0.90	1.78	0.18	2540
UF4		19.05	1.20	1.78	0.38	3810
UF5		31.48	1.20	1.78	0.62	3810

Suitable for framing Flattened Meshes up to and including 1.58mm thick

UF6		12.70	0.90	3.30	0.20	2540
UF7		19.05	1.20	3.30	0.38	3810
UF8		31.75	1.20	3.30	0.62	3810

Suitable for framing Flattened Meshes up to and including 3.18mm thick

UF6a		12.70	0.90	5.08	0.30	2540
UF9		19.05	1.20	5.08	0.38	3810
UF10		31.75	1.20	5.08	0.62	3810

Suitable for framing Conventional Meshes with a strand width of 2.39mm or under

UF11		19.05	1.50	10.16	0.45	3810
UF12		25.40	1.50	10.16	0.63	3810
UF13		25.40	2.95	10.16	1.20	3810
UF14		38.10	1.50	10.16	0.91	3810
UF15		38.10	2.95	10.16	1.79	3810

Suitable for framing Conventional Meshes with strand width of 4.75mm or under

UF16		14.29	1.50	12.70	0.46	3810
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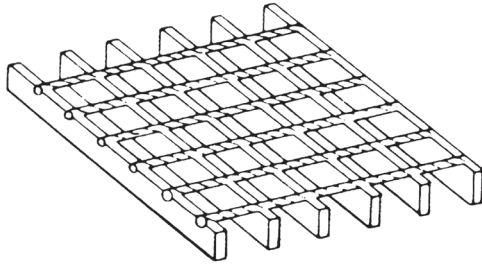
Ideal for Walkway Mesh Patt 2496

UF18		19.05	1.20	6.50	0.42	3810
UF19		31.75	1.20	6.50	0.66	3810

Suitable for framing up to 3.00mm Welded Mesh & Conventional Meshes with a strand width of up to 3.20mm

Open Steel Flooring

Self colour & Galvanised



Section mm	Type			
	41/100 Kg/m	41/50 Kg/m	31/100 Kg/m	30/50 Kg/m
20 x 3	13.44	15.25	17.70	19.50
25 x 3	16.39	18.19	21.64	23.44
30 x 3	19.34	21.14	25.73	27.54
40 x 3	25.25	27.05	33.61	35.40
20 x 5	21.31	23.11	28.36	30.16
25 x 5	26.22	28.03	35.08	36.88
30 x 5	31.15	32.95	41.63	43.44
35 x 5	36.06	37.87	48.36	50.16
40 x 5	40.98	42.78	55.08	56.88
45 x 5	45.90	47.70	61.64	63.44
50 x 5	50.82	52.62	68.36	70.16
55 x 5	55.74	57.37	75.08	76.88
60 x 5	60.65	62.29	81.63	83.44

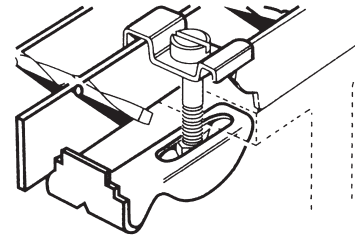
Standard panel sizes = 6100mm x 1000mm

All other types available upon request.

Flooring can be supplied fabricated to customer specifications, on short lead times.

Flooring & Stairtreads

Galvanised Fixing Clips



For health & safety reasons it is advisable to use a minimum of four butterfly or saddle clips per panel with extra clips as required.

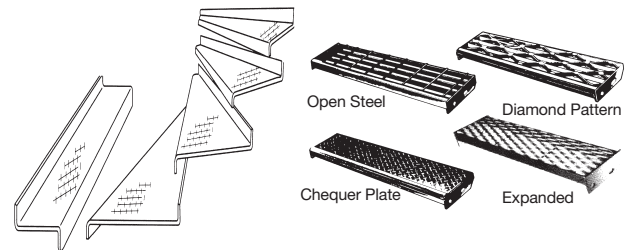
FD 500 For type N (30mm between bars)

FD 501 For type W (41mm between bars)

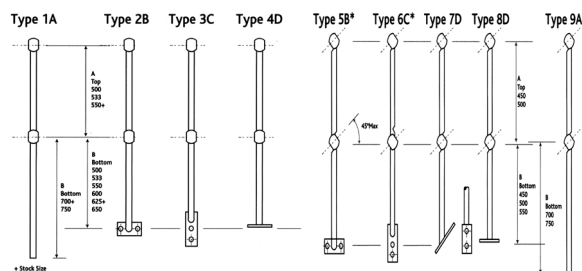
Stairtreads

We offer a comprehensive range of stairtreads.

- For Conventional or Spiral Stairways
- Trench Covers and Mezzanine Floors
- Vehicle Platforms, Ramps, etc.
- 3mm O/P to 12.5mm O/P



Handrail Standards



*Types 5B & 6C are handed L.H. or R.H. as ascending stairs.
Dimensions A & B are for guide purposes only.
Other sizes are available to suit your application.

Finish of Handrail Standards.

Handrails can be supplied in the following finishes.

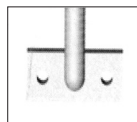
Self colour, Red Oxide Primed & Hot Dipped Galvanised.

Base Plate Options

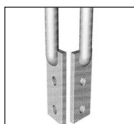
Type D



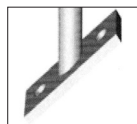
Type A



Type O



Type NX (Raked)



Base Plate Details

- All base plates are 12mm thick. (unless specified)
- Hole diameter 18mm.
- Standards available in either solid or tubular.
- Standard angle for stairs - 38° or 42°.
- Type A, D & O available raked for stairs if required.

Handrail Standards (Tubular)

Stock Availability

Tubular Handrail Standards are available to the following specifications.

25mm NB shank (33.7 O.D.)

with a 62mm ball to take 25mm NB handrail tube.

32mm NB shank (42.4 O.D.)

with a 76mm ball to take 32mm NB handrail tube.

32mm NB shank (42.4 O.D.)

with a 62mm ball to take 25mm NB handrail tube.

40mm NB shank (48.3 O.D.)

with a 76mm ball to take 32mm NB handrail tube.

40mm NB shank (48.3 O.D.)

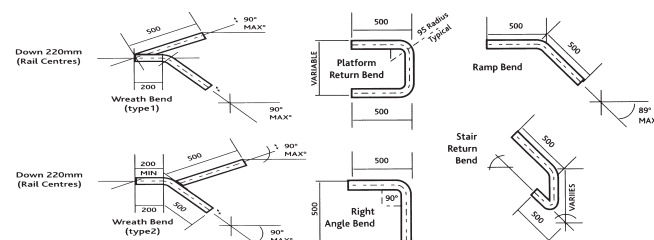
with a 76mm ball to take 40mm NB handrail tube.

40mm NB shank (48.3 O.D.)

with a 90mm ball to take 40mm NB handrail tube.

Handrail Bends

We offer the ultimate in handrail bends with Platform return bends, Angle bends, Ramp bends & Stair return bends, Wreath bends left and right hand & Dual left & right.



BS 1387 Tube Light

Nominal Bore			Outside Dia				Light Thickness	
			Max		Min			
in	mm	kg/m	in	mm	in	mm	in	mm
1/2	15	0.947	0.843	21.4	0.827	21.0	0.079	2.0
3/4	20	1.38	1.059	26.9	1.039	26.4	0.091	2.3
1	25	1.98	1.331	33.8	1.307	33.2	0.102	2.6
1.1/4	32	2.54	1.673	42.5	1.650	41.9	0.102	2.6
1.1/2	40	3.23	1.906	48.4	1.882	47.8	0.114	2.9
2	50	4.08	2.370	60.2	2.346	59.6	0.114	2.9
2.1/2	65	5.71	2.992	76.0	2.961	75.2	0.126	3.2
3	80	6.72	3.492	88.7	3.461	87.9	0.126	3.2
4	100	9.75	4.484	113.9	4.449	113.0	0.142	3.6

BS 1387 Tube Medium

Nominal Bore			Outside Dia				Medium Thickness	
			Max		Min			
in	mm	kg/m	in	mm	in	mm	in	mm
1/4	8	0.641	0.547	13.9	0.524	13.3	0.091	2.3
3/8	10	0.839	0.685	17.4	0.661	16.8	0.091	2.3
1/2	15	1.21	0.854	21.7	0.831	21.1	0.102	2.6
3/4	20	1.56	1.071	27.2	1.047	26.6	0.102	2.6
1	25	2.41	1.346	34.2	1.315	33.4	0.126	3.2
1.1/4	32	3.10	1.689	42.9	1.657	42.1	0.126	3.2
1.1/2	40	3.57	1.921	48.8	1.890	48.0	0.126	3.2
2	50	5.03	2.394	60.8	2.354	59.8	0.142	3.6
2.1/2	65	6.43	3.016	76.6	2.968	75.4	0.142	3.6
3	80	8.37	3.524	89.5	3.468	88.1	0.157	4.0
4	100	12.2	4.524	114.9	4.461	113.3	0.177	4.5
5	125	16.6	5.535	140.6	5.461	138.7	0.197	5.0
6	150	19.7	6.539	166.1	6.461	164.1	0.197	5.0

BS 1387 Tube Heavy

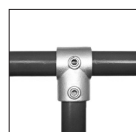
Nominal Bore			Outside Dia				Heavy Thickness	
			Max		Min			
in	mm	kg/m	in	mm	in	mm	in	mm
1/2	15	1.44	0.854	21.7	0.831	21.1	0.126	3.2
3/4	20	1.87	1.071	27.2	1.047	26.6	0.126	3.2
1	25	2.94	1.346	34.2	1.315	33.4	0.157	4.0
1.1/4	32	3.80	1.689	42.9	1.657	42.1	0.157	4.0
1.1/2	40	4.38	1.921	48.8	1.89	48.0	0.157	4.0
2	50	6.19	2.394	60.8	2.354	59.8	0.177	4.5
2.1/2	65	7.93	3.016	76.6	2.968	75.4	0.177	4.5
3	80	10.3	3.524	89.5	3.468	88.1	0.197	5.0
4	100	14.5	4.524	114.9	4.461	113.3	0.213	5.4
5	125	17.9	4.118	104.6	5.461	138.7	0.213	5.4
6	150	21.3	6.539	166.1	6.461	164.1	0.213	5.4

Available in self colour, galvanised or red primer painted. Plain end or screwed and socketed.

Klamp Fittings

Type	Inside (Dia)	Outside (Dia)	Metric Comparison
A	3/4"	1.1/16"	26.9mm
B	1"	1.11/32"	33.7mm
C	1.1/4"	1.11/16"	42.4mm
D	1.1/2"	1.29/32"	48.3mm
E	2"	1.3/8"	60.3mm

Tube Size	Tubeclamp	Q Clamp	Keeclamp
20mm NB/26.9 OD	A	1	5
25mm NB/33.7 OD	B	2	6
32mm NB/42.4 OD	C	3	7
40mm NB/48.3 OD	D	4	8
50mm NB/60.3 OD	E	5	



Type 101 Short Tee

A B C D E



Type 101 Reducing Tee

C/B D/B D/C E/D B/C C/D



Type 104 Long Tee

A B C D E



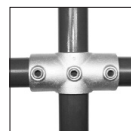
Type 116 Corner

A B C D E



Type 119 Two Socket Cross

A B C D E



Type 119 Reducing Cross

C/D



Type 123 Variable Elbow

D



Type 124 Variable Elbow

B C D



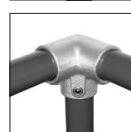
Type 125 90° Elbow

A B C D E



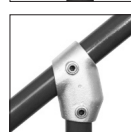
Type 127 Angle Tee

B C D



Type 128 3 Way 90° Elbow

A B C D E



Type 129 Adjustable Short Tee

B C D



Type 130 Two Cross Socket

B C D



Type 131 Base Flange

A B C D E



Type 132 Raining Base Flange

A B C D E



Type 134 Ground Socket

B C D



Type 135 Clamp on Tee

A B C D E



Type 136 Clamp on Tee

C D



Type 137 Clamp on Crossover

D



Type 138 Gate Eye

A B C D



Type 140 Gate Hinge

A B C D



Type 143 Handrail Bracket

A B C D



Type 144 Railing Side Support

B C D



Type 145 Railing Side Support

B



Type 146 Side-Palm Fixing

B C D



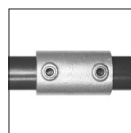
Type 147 Internal Swivel Tee

B C D



Type 148 Short Tee Swivel

A B C D E



Type 149 Sleeve Joint

A B C D E



Type 150 Internal Joint

B C D



Type 152 Slope Base Flange

B C D



Type 153 Slope Short Tee

B C D



Type 154 Elbow

B C D



Type 155 Slope Long Tee

B C D



Type 156 Slope 2 Socket Cross

B C D



Type 158 Four Way Cross

A B C D E



Type 160 Clamp on Crossover

A B C D E



Type 161 90° Crossover

A B or B/C C D E



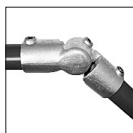
Type 161 Reducing Crossover

C/B D/B D/C E/D



Type 165 Combination Socket

A B C D E



Type 166 Adjustable Knuckle

B C D E



Type 167 Double Swivel Combination

A B C D E



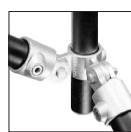
Type 167M Double Male Section of Swivel

AM BM CM DM EM



Type 168M 90° Corner Swivel Male Section

AM BM CM DM EM



Type 168 90° Corner Swivel Combination

A B C D



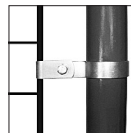
Type 169M Swivel Base Section

M



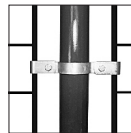
Type 169 Swivel Base

A B C



Type 170 Mesh Panel Clip

A B C D E



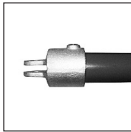
Type 171 Mesh Panel Clip

A B C D E



Type 173M Single Male Section of Swivel

AM BM CM DM EM



Type 173F Female Section of Swivel

AF BF CF DF EF



Type 173 Single Swivel Combination

A B C D E



Type 174 Swivel Tee

D



Type 174M Swivel Tee Male Part

D



Type 175 Swivel Elbow

D



Type 175M Swivel Elbow Male Part

D



Type 176 Side Outlet Tee

A B C D E



Type 179 Locking Collar

A B C D E



Type 182 Hook

A B C D



Type 185 27.1/2° Eyes Fitting

D



Type 191 27.1/2° Ridge Fitting

D



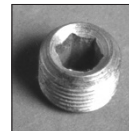
Type 192 Base Flange

B C D



Type 199 Adjustable Fixing Bracket

D



Type 231 Extra Set Screws

Hexagon Recessed To Suit:

A B C D E



Type 232 Keys Hexagon Key

To Suit:

A B C D E



Type 233 Ratchet with Bit

To Suit:

A B C D E



Type 333* Aluminium End Cap

A B C D E

*Illustration shows 2 fittings

Bright Round

Product Size	EN3B	EN1A	EN1A Ldd	EN32B	EN8	EN8M	16T	19T	24T
1/8"	•	•	•	•	•				
4 mm	•	•	•	•	•				
3/16"	•	•	•	•	•				
5 mm	•	•	•	•	•				
6 mm	•	•	•	•	•				
1/4"	•	•	•	•	•				
5/16"	•	•	•	•	•	•			
8 mm	•	•	•	•	•	•			
3/8"	•	•	•	•	•	•			
10 mm	•	•	•	•	•	•	•	•	•
7/16"	•	•	•	•	•	•	•	•	•
12 mm	•	•	•	•	•	•	•	•	•
1/2"	•	•	•	•	•	•	•	•	•
9/16"	•	•	•	•	•	•	•	•	•
15 mm	•	•	•	•	•	•	•	•	•
5/8"	•	•	•	•	•	•	•	•	•
16 mm	•	•	•	•	•	•	•	•	•
17 mm	•	•	•	•	•	•	•	•	•
18 mm	•	•	•	•	•	•	•	•	•
3/4"	•	•	•	•	•	•	•	•	•
20 mm	•	•	•	•	•	•	•	•	•
22 mm	•	•	•	•	•	•	•	•	•
7/8"	•	•	•	•	•	•	•	•	•

Bright Round

Product Size	EN3B	EN1A	EN1A Ldd	EN32B	EN8	EN8M	16T	19T	24T
24 mm	•	•	•	•	•	•	•	•	•
25 mm	•	•	•	•	•	•	•	•	•
1"	•	•	•	•	•	•	•	•	•
1.1/16"	•	•	•	•	•	•			
1.1/8"	•	•	•	•	•	•	•	•	•
30 mm	•	•	•	•	•	•	•	•	•
1.1/4"	•	•	•	•	•	•	•	•	•
32 mm	•	•	•	•	•	•	•	•	•
13/8"	•	•	•	•	•	•	•	•	•
35 mm	•	•	•	•	•	•	•	•	•
36 mm	•	•	•	•	•	•	•	•	•
1.1/2"	•	•	•	•	•	•	•	•	•
40 mm	•	•	•	•	•	•	•	•	•
15/8"	•	•	•	•	•	•	•	•	•
42 mm	•	•	•	•	•	•	•	•	•
13/4"	•	•	•	•	•	•	•	•	•
45 mm	•	•	•	•	•	•	•	•	•
17/8"	•	•	•	•	•	•	•	•	•
50 mm	•	•	•	•	•	•	•	•	•
2"	•	•	•	•	•	•	•	•	•
55 mm	•	•	•	•	•	•	•	•	•
2.1/4"	•	•	•	•	•	•	•	•	•

Bright Round

Product Size	EN3B	EN1A	EN1A Ldd	EN32B	EN8	EN8M	16T	19T	24T
60 mm	•	•	•	•	•	•	•	•	•
2.1/2"	•	•	•	•	•	•	•	•	•
70 mm	•	•	•	•	•	•	•	•	•
75 mm	•	•	•	•	•	•	•	•	•
3"	•	•	•	•	•	•	•	•	•
80 mm	•	•	•	•	•	•			
3.1/4"	•	•	•	•	•	•			
85 mm	•	•	•	•	•	•			
3.1/2"	•	•	•	•	•	•			
90 mm	•	•	•	•	•	•			
95 mm	•	•	•	•	•	•			
100 mm	•	•	•	•	•	•			
4"	•	•	•	•	•	•			
4.1/2"	•	•	•	•	•	•			
120 mm	•	•	•	•	•	•			
125 mm	•	•	•	•	•	•			
5"	•	•	•	•	•	•			
130 mm	•	•	•	•	•	•			
140 mm	•	•	•	•	•	•			
150 mm	•	•	•	•	•	•			
6"	•	•	•	•	•	•			

Bright Squares

Product Size	O80A15	Product Size	O80A15
5 mm	•	1"	•
6 mm	•	30 mm	•
1/4"	•	1.1/4"	•
6.35 mm	•	32 mm	•
8 mm	•	35 mm	•
3/8"	•	1.1/2"	•
10 mm	•	40 mm	•
7/16"		1.3/4"	•
12 mm	•	45 mm	•
1/2"	•	50 mm	•
14 mm	•	2"	•
15 mm	•	60 mm	•
5/8"	•	70 mm	
16 mm	•	3"	•
19 mm		80 mm	•
3/4"	•	4"	•
20 mm	•	5"	•
22 mm	•	130 mm	
7/8"	•	6"	•
25 mm	•		



Bright Flats

Product Size	080A15	Product Size	080A15
3/8" x 1/4"	•	20 x 3 mm	•
10 x 3 mm	•	20 x 4 mm	•
10 x 5 mm	•	20 x 5 mm	•
10 x 6 mm	•	20 x 6 mm	•
12 x 3 mm	•	20 x 10 mm	•
12 x 5 mm	•	20 x 12 mm	•
12 x 6 mm	•	20 x 16 mm	•
1/2" x 1/8"	•	25 x 3 mm	•
1/2" x 3/16"	•	25 x 5 mm	•
1/2" x 1/4"	•	25 x 6 mm	•
1/2" x 5/16"	•	25 x 8 mm	•
1/2" x 3/8"	•	25 x 10 mm	•
5/8" x 1/8"	•	25 x 12 mm	•
5/8" x 3/16"	•	25 x 16 mm	•
5/8" x 1/4"	•	25 x 20 mm	•
5/8" x 3/8"	•	1" x 1/8"	•
5/8" x 1/2"	•	1" x 3/16"	•
16 x 3 mm	•	1" x 1/4"	•
16 x 5 mm	•	1" x 3/8"	•
16 x 6 mm	•	1" x 1/2"	•
16 x 10 mm	•	1" x 5/8"	•
16 x 12 mm	•	1" x 3/4"	•
3/4" x 1/8"	•	30 x 3 mm	•
3/4" x 3/16"	•	30 x 5 mm	•
3/4" x 5/16"	•	30 x 6 mm	•
3/4" x 3/8"	•	30 x 8 mm	•
3/4" x 1/2"	•	30 x 10 mm	•
3/4" x 5/8"	•	30 x 12 mm	•
		30 x 16 mm	•
		30 x 20 mm	•
		30 x 25 mm	•

Bright Flats

Product Size	080A15	Product Size	080A15
1.1/4" x 1/8"	•	50 x 3 mm	•
1.1/4" x 1/4"	•	50 x 5 mm	•
1.1/4" x 3/8"	•	50 x 6 mm	•
1.1/4" x 3/4"	•	50 x 8 mm	•
35 x 6 mm	•	50 x 10 mm	•
35 x 10 mm	•	50 x 12 mm	•
35 x 12 mm	•	50 x 16 mm	•
35 x 16 mm	•	50 x 20 mm	•
1.1/2" x 1/8"	•	50 x 25 mm	•
1.1/2" x 3/16"	•	50 x 30 mm	•
1.1/2" x 1/4"	•	50 x 40 mm	•
1.1/2" x 3/8"	•	2" x 1/8"	•
1.1/2" x 1/2"	•	2" x 1/4"	•
40 x 3 mm	•	2" x 3/8"	•
40 x 5 mm	•	2" x 1/2"	•
40 x 6 mm	•	2" x 5/8"	•
40 x 8 mm	•	2" x 3/4"	•
40 x 10 mm	•	2" x 1"	•
40 x 12 mm	•	2" x 1.1/4"	•
40 x 16 mm	•	2" x 1.1/2"	•
40 x 20 mm	•	60 x 6 mm	•
40 x 25 mm	•	60 x 8 mm	•
40 x 30 mm	•	60 x 10 mm	•
1.3/4" x 1/2"	•	60 x 12 mm	•
		60 x 16 mm	•
		60 x 20 mm	•
		60 x 25 mm	•
		60 x 30 mm	•
		60 x 40 mm	•

Bright Flats

Product Size	080A15	Product Size	080A15
2.1/2" x 1/8"	•	80 x 6 mm	•
2.1/2" x 1/4"	•	80 x 8 mm	•
2.1/2" x 1/2"	•	80 x 10 mm	•
2.1/2" x 5/8"	•	80 x 12 mm	•
2.1/2" x 3/4"	•	80 x 16 mm	•
2.1/2" x 1"	•	80 x 20 mm	•
2.1/2" x 1.1/2"	•	80 x 25 mm	•
2.1/2" x 1.3/4"	•	80 x 40 mm	•
2.1/2" x 2"	•	90 x 10 mm	•
65 x 10 mm	•	90 x 12 mm	•
65 x 12 mm	•	90 x 20 mm	•
65 x 16 mm	•	90 x 25 mm	•
65 x 20 mm	•	90 x 50 mm	•
65 x 30 mm	•	100 x 6 mm	•
70 x 10 mm	•	100 x 8 mm	•
70 x 12 mm	•	100 x 10 mm	•
70 x 20 mm	•	100 x 12 mm	•
70 x 25 mm	•	100 x 16 mm	•
70 x 40 mm	•	100 x 20 mm	•
75 x 6 mm	•	100 x 25 mm	•
75 x 8 mm	•	100 x 30 mm	•
75 x 10 mm	•	100 x 40 mm	•
75 x 12 mm	•	100 x 50 mm	•
75 x 16 mm	•	4" x 1/8"	•
75 x 20 mm	•	4" x 1/4"	•
75 x 25 mm	•	4" x 3/8"	•
75 x 50 mm	•	4" x 1/2"	•
3" x 3/8"	•	4" x 3/4"	•
3" x 1/2"	•	4" x 1"	•
3" x 3/4"	•	4" x 1.1/2"	•
		4" x 2"	•

Bright Flats

Product Size	080A15
125 x 10 mm	•
125 x 12 mm	•
125 x 20 mm	
125 x 25 mm	
5" x 1/2"	•
5" x 3/4"	•
150 x 10 mm	•
150 x 12 mm	•
150 x 25 mm	•
150 x 30 mm	•
6" x 1/4"	•
6" x 3/8"	•
6" x 1/2"	•
6" x 3/4"	•
6" x 1"	•
6" x 2"	•
200 x 6 mm	•
200 x 10 mm	•
200 x 12 mm	•
200 x 20 mm	•
200 x 25 mm	•
10" x 1/2"	•

Bright Hexagon

Product Size	EN3B	EN1A	EN1A LDD	EN32B
8 mm	•	•	•	•
10 mm	•	•	•	•
11 mm	•	•	•	•
13 mm	•	•	•	•
14 mm	•	•	•	•
19 mm	•	•	•	•
3/4"	•	•	•	•
22 mm	•	•	•	•
24 mm	•	•	•	•
25 mm	•	•	•	•
1"	•	•	•	•
27 mm	•	•	•	•
30 mm	•	•	•	•
32 mm	•	•	•	•
1.300	•	•	•	•
35 mm	•	•	•	•
36 mm	•	•	•	•
1.1/2"	•	•	•	•
41 mm	•	•	•	•
65 mm	•	•	•	•
70 mm		•	•	

Key Steel & Bright Angles

Key Product Size	Angle Product Size
8 x 7 mm	16 x 16 x 3 mm
10 x 10 mm	20 x 20 x 3 mm
12 x 8 mm	25 x 25 x 3 mm
14 x 9 mm	25 x 25 x 5 mm
5/8" x 7/16"	32 x 32 x 4 mm
5/8" x 1/2"	32 x 32 x 6 mm
18 x 11 mm	40 x 40 x 6 mm
3/14" x 1/2"	
20 x 12 mm	
7/8" x 5/8"	
22 x 14 mm	
1" x 1/2"	
1" x 5/8"	
1" x 3/4"	
25 x 14 mm	
28 x 16 mm	
1.1/4" x 3/4"	
1.1/4" x 7/8"	
32 x 18 mm	
36 x 20 mm	
40 x 22 mm	
2" x 1.1/4"	
50 x 28 mm	

ERW Tubes

Square

Product Size	kg/m	Product Size	kg/m
12.7 x 12.7 x 1.2	0.438	30 x 30 x 2.0	1.780
12.7 x 12.7 x 1.5	0.536	30 x 30 x 1.5	1.350
15.9 x 15.9 x 1.2	0.556	31.8 x 31.8 x 1.2	1.150
15.9 x 15.9 x 1.5	0.684	31.8 x 31.8 x 1.5	1.420
15.9 x 15.9 x 2.0	0.888	31.8 x 31.8 x 2.0	1.870
19.05 x 19.05 x 1.2	0.675	35 x 35 x 2.0	2.120
19.05 x 19.05 x 1.5	0.832	38.1 x 38.1 x 1.5	1.720
19.05 x 19.05 x 2.0	1.080	38.1 x 38.1 x 2.0	2.270
20 x 20 x 1.5	0.869	38.1 x 38.1 x 2.5	2.800
20 x 20 x 2.0	1.130	40 x 40 x 1.5	1.790
22.2 x 22.2 x 1.2	0.793	40 x 40 x 2.0	2.370
22.2 x 22.2 x 1.5	0.980	40 x 40 x 2.5	2.930
22.2 x 22.2 x 2.0	1.280	45 x 45 x 2.0	2.710
25 x 25 x 1.5	1.120	50 x 50 x 1.5	2.270
25 x 25 x 2.0	1.480	50 x 50 x 2.0	3.010
25.4 x 25.4 x 1.2	0.912	50.8 x 50.8 x 1.5	2.270
25.4 x 25.4 x 1.5	1.122	50.8 x 50.8 x 2.0	3.010
25.4 x 25.4 x 2.0	1.480	60 x 60 x 2.0	3.643
25.4 x 25.4 x 2.5	1.810	60 x 60 x 2.5	4.532

ERW Tubes

Rectangles

Product Size	kg/m	Product Size	kg/m
20 x 10 x 1.5	0.647	40 x 25 x 2.0	1.909
25 x 10 x 1.5	0.758	50 x 25 x 1.5	1.720
25.4 x 12.7 x 1.2	0.675	50 x 25 x 2.0	2.270
25.4 x 12.7 x 1.5	0.832	50 x 30 x 1.5	1.790
25 x 15 x 1.5	0.869	50 x 30 x 2.0	2.370
30 x 10 x 1.5	0.869	50.8 x 25.4 x 1.2	1.380
30 x 15 x 1.5	0.980	50.8 x 25.4 x 1.5	1.720
30 x 20 x 1.5	1.120	50.8 x 25.4 x 2.0	2.770
30 x 20 x 2.0	1.480	60 x 20 x 1.5	1.790
34.9 x 15.9 x 1.2	0.912	60 x 30 x 1.5	2.050
34.9 x 15.9 x 1.5	1.120	60 x 30 x 2.0	2.710
38.1 x 19.05 x 1.2	1.030	60 x 40 x 2.0	3.010
38.1 x 19.05 x 1.5	1.270	60 x 40 x 2.5	3.730
38.1 x 19.05 x 2.0	1.670	75 x 25 x 1.5	2.160
40 x 20 x 1.2	1.090	80 x 30 x 2.5	4.160
40 x 20 x 1.5	1.350	80 x 40 x 2.0	3.500
40 x 20 x 2.0	1.780	100 x 40 x 2.0	4.270

ERW Tubes

Circular

Product Size	kg/m	Product Size	kg/m
12.7 x 0.9	0.262	28.6 x 1.2	0.811
12.7 x 1.2	0.341	28.6 x 1.5	1.003
12.7 x 1.5	0.414	28.6 x 2.0	1.313
12.7 x 2.0	0.528	30 x 1.5	1.050
15 x 1.5	0.499	30 x 2.0	1.380
15.9 x 0.9	0.329	31.75 x 1.2	0.904
15.9 x 1.2	0.430	31.75 x 1.5	1.117
15.9 x 1.5	0.528	31.75 x 2.0	1.465
15.9 x 2.0	0.693	31.75 x 2.5	1.795
16 x 2.0	0.691	31.75 x 3.2	2.300
18 x 1.0	0.419	34.9 x 1.2	1.000
18 x 2.0	0.789	34.9 x 1.6	1.240
19.05 x 1.2	0.527	34.9 x 2.0	1.630
19.05 x 1.5	0.647	38.1 x 1.2	1.090
19.05 x 2.0	0.838	38.1 x 1.5	1.354
19.05 x 2.5	1.018	38.1 x 2.0	1.781
20 x 1.2	0.556	38.1 x 2.5	2.195
20 x 1.5	0.684	38.1 x 3.2	2.771
20 x 2.0	0.888	44.5 x 1.2	1.282
22.2 x 2.0	1.001	44.5 x 1.5	1.591
22.2 x 2.5	1.220	44.5 x 2.0	2.097
22.2 x 1.2	0.625	44.5 x 3.2	3.284
22.2 x 1.5	0.770	50.8 x 1.2	1.470
25.4 x 1.2	0.716	50.8 x 1.5	1.824
25.4 x 1.5	0.884	50.8 x 2.0	2.410
25.4 x 2.0	1.154	50.8 x 2.5	2.980
25.4 x 2.5	1.412	50.8 x 3.2	3.787
25.4 x 3.2	1.776		

ERW Tubes

Circular

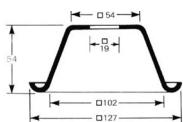
Product Size	kg/m	Product Size	kg/m
63.5 x 1.5	2.293	101.6 x 1.5	3.700
63.5 x 2.0	3.032	101.6 x 3.64	8.808
63.5 x 3.2	4.793	127 x 2.0	6.170
76.1 x 1.5	2.760	127 x 3.2	9.811
76.1 x 2.0	3.652		
76.1 x 3.2	5.788		

ERW

Flat Sided Oval

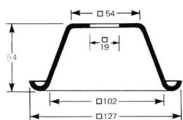
Product Size	kg/m	Product Size	kg/m
20 x 10 x 1.5	0.536	38 x 20 x 1.22	0.912
25 x 12 x 1.5	0.695	40 x 20 x 1.5	1.160
30 x 15 x 1.5	0.869	40 x 20 x 2.0	1.520
31.8 x 15.9 x 1.5	0.900	40 x 25 x 2.0	1.629
31.8 x 15.9 x 2.0	1.190	50 x 20 x 2.0	1.875
35 x 15 x 2.0	1.283	50 x 25 x 1.5	1.490
35 x 20 x 1.5	1.054	60 x 30 x 2.0	2.370
35 x 20 x 2.0	1.381	60 x 30 x 2.5	2.930

Pallet Feet & Fittings



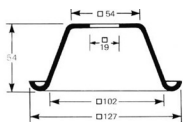
JSS-138

Thickness: 2.4
Weight (Kg/100): 50
Max post size: 60
Max Load: 2T per FO



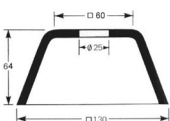
JSS-100

Thickness: 3.0
Weight (Kg/100): 60
Max post size: 60
Max Load: 3T per FO



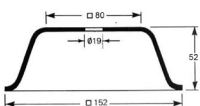
JSS-100S

Stainless Steel
Thickness: 3.0
Weight (Kg/100): 60
Max post size: 60
Max Load: 3T per FO



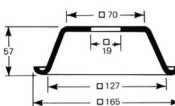
JSS-102

Thickness: 2.4
Weight (Kg/100): 50
Max post size: 60
Max Load: 2T per FO



JSS-105

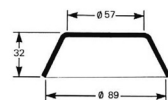
Thickness: 4.8
Weight (Kg/100): 125
Max post size: 80
Max Load: 2T per FO



JSS-140

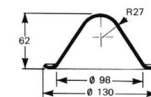
Thickness: 3.0
Weight (Kg/100): 98
Max post size: 80

Pallet Feet & Fittings



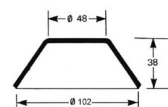
JSS-106

Thickness: 3.0
Weight (Kg/100): 29
Max post size: 60



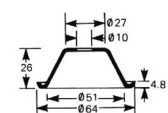
JSS-107

Thickness: 3.0
Weight (Kg/100): 49
Max post size: 70



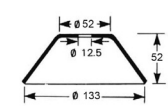
JSS-113/JSS-113S

Thickness: 3.0
Weight (Kg/100): 31
Max post size: 60



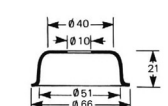
JSS-114

Thickness: 1.6
Weight (Kg/100): 6.3
Max post size: 25



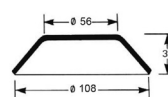
JSS-124

Thickness: 3.0
Weight (Kg/100): 52
Max post size: 60



JSS-131

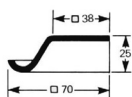
Thickness: 1.6
Weight (Kg/100): 6.3
Max post size: 45



JSS-125/JSS-125S

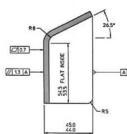
Thickness: 3.0
Weight (Kg/100): 31
Max post size: 60

Pallet Feet & Fittings



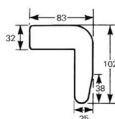
JSS-110

Thickness: 3.0
Weight (Kg/100): 16
Max post size: 40



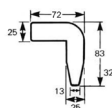
JSS-1546

Thickness: 4.8
Weight (Kg/100): 36



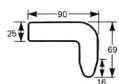
JSS-111 (A)

Thickness: 4.5
Weight (Kg/100): 16



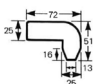
JSS-111 (B)

Thickness: 4.5
Weight (Kg/100): 11



JSS-111 (C)

Thickness: 4.5
Weight (Kg/100): 11



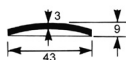
JSS-111 (D)

Thickness: 4.5
Weight (Kg/100): 9



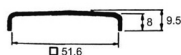
JSS-112

Thickness: 3.0
Weight (Kg/100): 3.8



JSS-136

Thickness: 3.0
Weight (Kg/100): 3.4



JSS-549

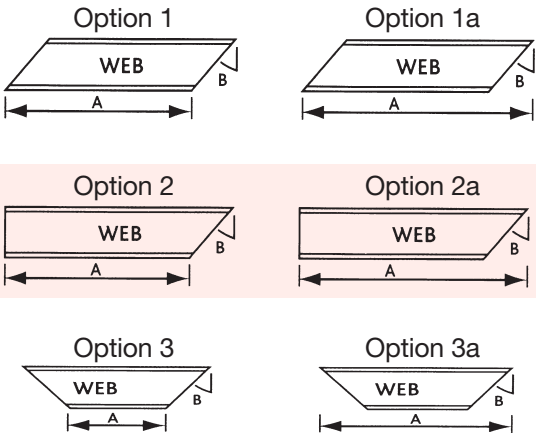
Thickness: 1.6
Weight (Kg/100): 4.5

Processing Facilities

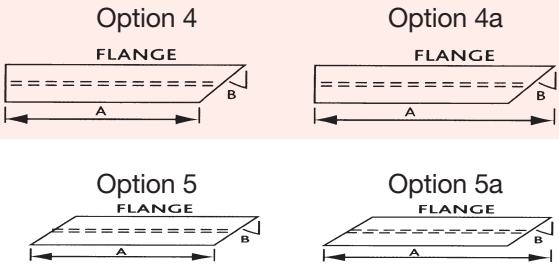
Details and prices are just a phone call away

- Bundle Cutting
- Straight Sawing
- Mitre Sawing
- Shot Blasting
- Painting
- Profiling
- Forming/Bending
- Plasma Cutting
- Grinding
- Punching
- Drilling
- Bending
- Laser Cutting
- Shearing (*from Dec 2013*) up to 25mm Thick
- Chamfering (*from August 2012*) up to 60mm Thick (*see page 23*)

Processing Facilities Mitre Guides



ALL THE ABOVE ARE CUT IN 'H' POSITION



All the above are cut in the 'I' position.
 To avoid any misinterpretation please supply your own
 detailed drawings.

Technical Information Conversion Factors

To Convert	Multiply by
Centimetres to inches	0.3937
Cubic centimetres to cubic inches	0.06103
Cubic feet to cubic metres	0.02832
Cubic inches to cubic centimetres	16.39
Cubic inches to litres	0.01639
Cubic metres to cubic feet	35.32
Cubic metres to cubic yards	1.308
Cubic yards to cubic metres	0.7645
Feet to metres	0.3048
Foot pounds to kilogram metres	0.1382
Gallons to litres	4.536
Gallons to cubic feet	0.1606
Grains to grams	0.06480
Grams to pounds	0.002205
Inches to centimetres	2.540
Inches to millimetres	25.40
Kilogram metres to foot pounds	7.233
Kilogram to pounds	2.205
Kilogram to tons	0.0009842
Kilos per sq. mm to tons per sq. inch	0.635
Metres to feet	3.281

Technical Information

Conversion Factors

To Convert	Multiply by
Millimetres to inches	0.0394
N/mm2 to tons f/in2	0.06475
Pounds to kilograms	0.4536
Pounds per foot to kilos per metre	1.488
Square centimetres to sq. inches	0/1550
Square feet to sq. metres	0.09290
Square inches to sq. centimetres	6.452
Square metres to sq. feet	10.76
Temperature conversion :-	C = 5/9 (F - 32) F = (9/5 C) + 32
Tons per sq. inch to kilos per sq. mm	1.575
Tons f/in.2 to N/mm2	15.444
Tons to kilograms	1016.0
KSI - Nmm2 ÷ 0.145038	
Nmm2 - KSI x 0.145038	

Technical Information

SWG to Metric conversion chart

Standard Wire Gauge to Metric

Gauge	mm	Standardised Metric Material
4 swg	5.89	6.00
6 swg	4.88	5.00
8 swg	4.06	4.00
10 swg	3.25	3.00
12 swg	2.64	2.50
14 swg	2.03	2.00
16 swg	1.63	1.50
18 swg	1.22	1.20
20 swg	0.914	1.00
22 swg	0.711	0.80
24 swg	0.559	0.60

Technical Information

Grade Designation Systems

The designation systems used in the new standard are similar but not identical to EN 10025 : 1993 and very different to the familiar BS 4360 designations so the guide below has been prepared to assist purchasers, specifiers, designers and users of steel.

Symbols used in EN 10025: part 2 : 2004

Non-alloy structural steels

S...	Structural steel
E...	Engineering steel
.235...	Minimum yield strength (ReH) in Mpa @ 16mm
...JR..	Longitudinal Charpy V-notch impacts 27 J @ + 20°C
...J0..	Longitudinal Charpy V-notch impacts 27 J @ 0°C
...J2..	Longitudinal Charpy V-notch impacts 27 J @ -20°C
...K2..	Longitudinal Charpy V-notch impacts 40 J @ -20°C
...+AR	Supply condition as rolled
...+N	Supply condition normalised or normalised rolled

Customer options

...C..	Grade suitable for cold forming
...Z..	Grade with improved properties perpendicular to the surface

Examples: S235JR+AR, S355K2C+N

Every effort has been made to ensure that the information given in this steel buyers guide is accurate and while John S. Shackleton (Sheffield) Limited & their publishers would be grateful to learn of any errors, they regret that no responsibility can be accepted.

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