

• STEEL • ROOFING SHEETS • WELDING EQUIPMENT • POWER & HAND TOOLS • REINFORCING PRODUCTS •



Austen Knapman Ltd

FOR STEEL APPEAL

PRODUCT MANUAL



From its humble beginnings in Austen's garage in 1981, Austen Knapman Limited has grown into a highly respected family owned and run business.

Now a third-generation company started in Paignton, Devon a further branch opened in 2015 to cover Plymouth and Cornwall, which is based in Saltash, Cornwall.

Our main business is steel stockholding, we have 100's of tonnes of steel in stock, including steel beams, box sections, flats, angles, reinforcing products and palisade fencing.

Both branches have purpose-built trade counters, where we stock a large range of welding equipment, power tools, tube clamps, safety gear, industrial gases and many other products. We also keep a range of box profile steel roof sheets, galvanized corrugated sheets and Onduline to cover your roofing needs.

Due to the large variety of stock we hold we can offer a fast turnaround, whether we are supplying stock lengths or cutting your steel to size. Service is foremost in our minds and we do our best to accommodate your requirements. We also have the contacts to source any obscure items that you may need. No order too small or too large.

Our transport fleet consists of a variety of vehicles. With trucks ranging from 7.5 to 26 tonne, some fitted with hi-ab unload for sites where no lifting gear is available. Also 3.5 tonne pick-ups to get into the more "challenging" areas.

We look forward to being of service to you.

From The Team at Austen Knapman Limited.

FOR STEEL APPEAL

Austen Knapman Limited

Head Office

Ash House
Blythe Way
Yalberton Industrial Estate
Paignton
Devon
TQ4 7QP



Tel: 01803 664020

Email: sales@austenknapman.co.uk

Saltash Branch

Birch House
Forge Lane
Moorlands Trading Estate
Saltash
Cornwall
PL12 6LX



Tel: 01752 847799

Email: saltashsales@austenknapman.com

www.austenknapman.co.uk



PAGE

GENERAL STEEL

5	ANGLE
6-7	FLAT
8	SQUARE, ROUND & SPECIALS
9	VARIOUS SHEET
10-11	HOT ROLLED SHEET & PLATE
12	REINFORCING MESH
13	REINFORCING BAR
14	SPACERS & HYSTOOLS
15	PALISADE FENCING
16	OPEN STEEL FLOORING
17	WELDMESH & EXPANDED WALKWAY MESH
18	GALVANIZING

STRUCTURAL STEEL

19	DEFINITIONS
20-22	UNIVERSAL BEAMS
23	UNIVERSAL COLUMNS
24	PARALLEL FLANGE CHANNEL
25-26	FABRICATION EXAMPLES

PAGE

HOLLOW STEEL

27	CIRCULAR
28	SQUARE
29	RECTANGULAR
30	ERW PRECISION WELDED STEEL TUBE
31	GALVANIZED/ BLACK PIPE

TUBECLAMPS

33-34	TUBECLAMP FITTINGS
-------	--------------------

TOOLS & GAS

35	TOOLS & EQUIPMENT
36	PAINT & FIXINGS
37	GAS CYLINDERS
38	TYPES & USES OF GAS

ROOFING

39	STEEL ROOFING
40	COLOUR CHART
41	ONDULINE ROOFING & CORRUGATED
42	ROOFING SCREWS

All products shown in this catalogue are subject to change and not all items are kept in stock on the premises. The information presented in this catalogue is for your reference only and Austen Knapman Limited accept no liability for product specification changes or discrepancies in the details shown herein.

We may also be able to source related products that do not appear in this catalogue.

EQUAL ANGLE

Size (mm)	Kg/M
13x13x3	0.55
20x20x3	0.88
25x25x3	1.11
25x25x5	1.77
30x30x3	1.36
30x30x5	2.18
40x40x3	1.84
40x40x5	2.97
40x40x6	3.52
45x45x5	3.38
50x50x3	2.33
50x50x5	3.77
50x50x6	4.47
50x50x8	5.82
60x60x6	5.42
60x60x8	7.09
60x60x10	8.69
70x70x6	6.38
70x70x8	8.36
70x70x10	10.3
75x75x6	6.86
75x75x8	8.8
75x75x10	11

EQUAL ANGLE

Size (mm)	Kg/M
80x80x6	7.34
80x80x8	9.63
80x80x10	11.9
90x90x6	8.3
90x90x8	10.9
90x90x10	13.4
100x100x8	12.2
100x100x10	15
100x100x12	17.8
100x100x15	21.9
120x120x8	14.7
120x120x10	18.2
120x120x12	21.6
120x120x15	26.6
150x150x10	23
150x150x12	27
150x150x15	33.8
150x150x18	40.1
200x200x12	36.74
200x200x16	48.5
200x200x18	54.2
200x200x20	59.9
200x200x24	71.1

UNEQUAL ANGLE

Size (mm)	Kg/M
40x25x5	2.37
50x40x5	3.37
60x30x5	3.37
65x50x6	5.16
75x50x6	5.65
75x50x8	7.39
80x60x6	6.37
100x65x7	8.77
100x65x8	9.94
100x65x10	12.3
100x75x8	10.6
100x75x10	13
125x75x8	12.2
125x75x10	15
125x75x12	17.8
150x75x10	17
150x75x12	20.2
150x75x15	24.8
150x90x10	18.2
150x90x12	21.6
200x100x10	23
200x100x12	27.3
200x100x15	33.7
200x150x12	32
200x150x15	39.6
200x150x18	47.1

Size (mm)	Kg/M
10x3	0.26
13x3	0.33
16x3	0.39
20x3	0.49
25x3	0.63
30x3	0.75
40x3	0.95
50x3	1.25
60x3	1.44
65x3	1.53
80x3	1.89
100x3	2.36
130x3	3.06
150x3	3.54

Size (mm)	Kg/M
13x5	0.51
16x5	0.63
20x5	0.79
25x5	0.98
30x5	1.18
40x5	1.57
50x5	1.96
60x5	2.36
70x5	2.76
80x5	3.14
90x5	3.53
100x5	3.93
130x5	5.11
150x5	5.89

Size (mm)	Kg/M
16x6	0.75
20x6	0.94
25x6	1.18
30x6	1.41
40x6	1.88
50x6	2.36
60x6	2.83
65x6	3.06
70x6	3.31
75x6	3.55
80x6	3.77
90x6	4.24
100x6	4.71
120x6	5.66
130x6	6.12
150x6	7.09
180x6	8.48
200x6	9.42
220x6	10.36
250x6	11.78
300x6	14.13

Size (mm)	Kg/M
20x8	1.26
25x8	1.57
30x8	1.88
40x8	2.51
50x8	3.14
60x8	3.77
65x8	4.08
70x8	4.39
75x8	4.71
80x8	5.02
90x8	5.65
100x8	6.28
120x8	7.54
130x8	8.16
150x8	9.42
180x8	11.31
200x8	12.59
220x8	13.82
250x8	15.69
300x8	18.84

Size (mm)	Kg/M
20x10	1.57
25x10	1.96
30x10	2.36
40x10	3.14
50x10	3.93
60x10	4.71
65x10	5.11
70x10	5.49
75x10	5.89
80x10	6.28
90x10	7.07
100x10	7.85
120x10	9.42
130x10	10.21
150x10	11.78
160x10	12.56
180x10	14.13
200x10	15.69
220x10	17.27
250x10	19.59
275x10	21.59
300x10	23.55
350x10	27.48
400x10	31.41

Size (mm)	Kg/M
20x12	1.88
25x12	2.36
30x12	2.83
40x12	3.77
50x12	4.72
60x12	5.65
65x12	6.12
70x12	6.59
75x12	7.05
80x12	7.54
100x12	9.42
120x12	11.31
130x12	12.25
150x12	14.13
160x12	15.07
180x12	16.96
200x12	18.84
220x12	20.72
250x12	23.55
300x12	28.26
350x12	33.01
400x12	37.68
450x12	42.39

Size (mm)	Kg/M
40x15	4.71
50x15	5.89
60x15	7.07
80x15	9.42
100x15	11.78
120x15	14.09
130x15	15.31

Size (mm)	Kg/M
40x20	6.28
50x20	7.85
60x20	9.42
65x20	10.21
70x20	10.99
75x20	11.81
80x20	12.56
100x20	15.72
120x20	18.84
130x20	20.41
150x20	23.55
180x20	28.26
200x20	31.41
220x20	34.54
250x20	39.25
300x20	47.15
350x20	54.95
400x20	62.81

150x15	17.66
180x15	21.22
200x15	23.55
220x15	25.91
250x15	29.44
300x15	35.33
350x15	41.25
400x15	47.09

Size (mm)	Kg/M
40x25	7.85
50x25	9.81
60x25	11.78
65x25	12.76
70x25	13.74
75x25	14.71
80x25	15.71
90x25	17.68
100x25	19.63
120x25	23.55
130x25	25.51
140x25	27.48
150x25	29.44
180x25	35.33
200x25	39.25
220x25	43.18
250x25	59.97
300x25	58.88
400x25	78.51

Size (mm)	Kg/M
50x40	15.71
60x40	18.84
65x40	20.41
70x40	21.96
80x40	25.12
100x40	31.41
150x40	47.11
180x40	56.52

Size (mm)	Kg/M
40x30	9.42
45x30	10.65
50x30	11.78
60x30	14.13
65x30	15.31
70x30	16.49
75x30	17.71
80x30	18.84
90x30	21.22
100x30	23.55
120x30	28.35
130x30	30.62
150x30	35.33
180x30	42.39
200x30	47.11
220x30	51.81
250x30	58.88
300x30	70.65
350x30	82.43
400x30	94.21

Size (mm)	Kg/M
100x50	39.25
150x50	58.88
200x50	78.51

SQUARE SOLID

Size (mm)	Kg/M
10	0.79
12	1.13
16	2.01
20	3.14
25	4.91
30	7.07
35	9.62
40	12.6
45	15.9
50	19.62
60	28.4
65	33.16
70	39.1
75	44.2
80	50.2
90	63.6
100	78.5

ROUND SOLID

Size (mm)	Kg/M
6	0.22
8	0.39
10	0.62
12	0.89
16	1.58
20	2.47
22	2.98
25	3.85
30	5.55
32	6.31
35	7.55
40	9.86
50	15.41

BRIGHT CARBON ROUND

Size (inches)	Size (mm)	Kg/M
	3	0.06
1/8		0.06
3/16		0.14
1/4		0.25
5/16		0.39
	8	0.39
3/8		0.56
7/16		0.76
1/2		0.99
5/8		1.55
3/4		2.23
	20	2.46
7/8		3.04
1 5/16		3.49
	25	3.85
1		3.97
1 1/8		5.02
	30	5.54
1 1/4		6.2
1 1/2		8.93
2		15.9
2 1/2		24.8

HALF ROUND SQUARE EDGE

Size (mm)	Kg/M
40x12x6	3.18
51x13x6	4.17

TEE SECTION

Size (mm)	Kg/M
40x40x5	2.96
50x50x6	4.76

Various sizes, sections
and grades are available
to order.

GALVANIZED SHEET

Thickness (mm)	Size (mm)	Weight Kg/m ²
0.8	2000x1000	6.28
	2500x1250	
0.9	2000x1000	7.07
	2500x1250	
1.0	2000x1000	7.85
	2500x1250	
1.2	2000x1000	9.42
	2500x1250	
1.5	2000x1000	11.78
	2500x1250	
1.6	2000x1000	12.56
	2500x1250	
2.0	2000x1000	15.7
	2500x1250	
3.0	2000x1000	23.55
	2500x1250	

DURBAR SHEET

Thickness (mm)	Size (mm)	Weight Kg/m ²
3	2000x1000	26.19
	2500x1250	
4.5	2000x1000	37.97
	2500x1250	
6	2000x1000	49.74
	2500x1250	
8	2000x1000	65.44
	2500x1250	
10	2000x1000	81.14
	2500x1250	
12.5	2000x1000	100.71
	2500x1250	

ZINTEC SHEET

Thickness (mm)	Size (mm)	Weight Kg/m ²
0.8	2500x1250	6.28
0.9	2500x1250	7.07
1	2500x1250	7.85
1.2	2500x1250	9.42
1.5	2500x1250	11.78
2	2500x1250	15.7
2.5	2500x1250	19.62
3	2500x1250	23.55

COLD REDUCED SHEET

Thickness (mm)	Size (mm)	Weight Kg/m ²
0.8	2000x1000	6.28
	2500x1250	
1.0	2000x1000	7.85
	2500x1250	
1.2	2000x1000	9.42
	2500x1250	
1.6	2000x1000	12.56
	2500x1250	
	3000x1500	
2	2000x1000	15.7
	2500x1250	
	3000x1500	
2.5	2000x1000	19.63
	2500x1250	
	3000x1500	
3	2000x1000	23.55
	2500x1250	
	3000x1500	



Thickness (mm)	Size (mm)	Weight Kg/m ²
1.6	2000x1000	12.56
	2500x1250	
	3000x1500	
2.0	2000x1000	15.7
	2500x1250	
	3000x1500	
2.5	2000x1000	19.63
	2500x1250	
3	2000x1000	23.55
	2500x1250	
	3000x1500	
4	2000x1000	31.4
	2500x1250	
	3000x1500	
5	2000x1000	39.25
	2500x1250	
	3000x1500	
6	2000x1000	47.1
	2500x1250	
	3000x1500	
8	2000x1000	62.8
	2500x1250	
	3000x1500	
10	2000x1000	78.5
	2500x1250	
	3000x1500	
12	2000x1000	98.12
	2500x1250	
	3000x1500	
15	2000x1000	117.75
	2500x1250	
	3000x1500	

Thickness (mm)	Size (mm)	Weight Kg/m ²
20	2000x1000	157
	2500x1250	
	3000x1500	
25	2000x1000	196.25
	2500x1250	
	3000x1500	
30	2000x1000	235.5
	2500x1250	
	3000x1500	
35	2000x1000	274.8
	2500x1250	
	3000x1500	
40	2000x1000	314
	2500x1250	
	3000x1500	
45	2000x1000	353.3
	2500x1250	
	3000x1500	
50	2000x1000	392.5
	2500x1250	
	3000x1500	
55	2000x1000	431.8
	2500x1250	
	3000x1500	
60	2000x1000	471
	2500x1250	
	3000x1500	
65	2000x1000	510.3
	2500x1250	
	3000x1500	

Thickness (mm)	Size (mm)	Weight Kg/m ²
70	2000x1000	549.5
	2500x1250	
	3000x1500	
75	2000x1000	588.8
	2500x1250	
	3000x1500	
80	2000x1000	628
	2500x1250	
	4000x2000	
85	2000x1000	667.3
	2500x1250	
	4000x2000	
90	2000x1000	706.5
	2500x1250	
	4000x2000	
95	2000x1000	745.8
	2500x1250	
	4000x2000	
100	2000x1000	785
	2500x1250	
	4000x2000	
120	2500x1250	942
	4000x2000	
130	2500x1250	1020
	4000x2000	
150	2500x1250	1177.5

Mesh Reference	Mesh Size Nominal Pitch of Wires		Diameter of Wires		Nominal Weight per m ²	Sheets per pack	Weight per sheet kgs
	main mm	cross mm	main	cross			
A393	200	200	10	10	6.16	20	70.96
A393S *	200	200	10	10	6.16	20	44.35
A252	200	200	8	8	3.95	30	45.5
A193	200	200	7	7	3.02	40	34.79
A142	200	200	6	6	2.22	50	25.57
A142S *	200	200	6	6	2.22	50	15.98
B1131	200	200	12	8	10.9		125.57
B785	200	200	10	8	8.14		93.57
B503	100	200	8	8	5.93		68.31
D49	100	100	2.5	2.5	0.77		8.87

Standard sheet size 4.8m x 2.4m (A sizes have Flying Ends)

Coverage area approx. 10 sq/mtrs.

*A142S & A393S 3.6mx2.0m

Coverage area approx. 7.2 sq/mtrs.

FLYING ENDED MESH LAYOUT



STANDARD MESH LAYOUT

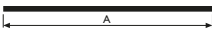
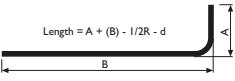
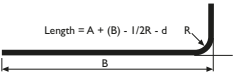
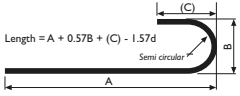
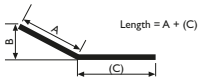
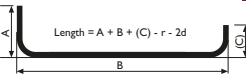
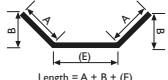
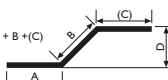
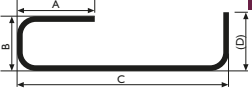
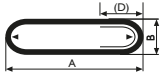
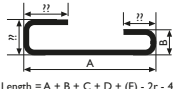
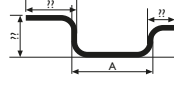
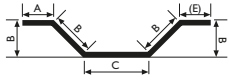
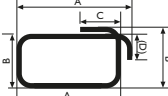
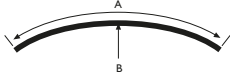



HIGH YIELD REINFORCING BAR

Diameter (mm)	Kg/M
8	0.39
10	0.62
12	0.89
16	1.58
20	2.47
25	3.86
32	6.31
40	9.87

Standard 6m lengths.

Can be cut and bent as per schedule if required.

<p>Length = A</p> 	<p>Length = A + (B) - 1/2R - d</p> 	<p>Length = A + (B) - 1/2R - d</p> 
<p>Length = A + 0.57B + (C) - 1.57d</p> 	<p>Length = A + (C)</p> 	<p>Length = A + B + (C) - r - 2d</p> 
<p>Length = A + B + (E)</p> 	<p>Length = A + B + (C)</p> 	<p>Length = A + B + C + (D) - 11/2r - 3d</p> 
<p>Length = 2A + 3B + 17d</p> 	<p>Length = A + B + C + D + (E) - 2r - 4d</p> 	<p>Length = A + B + C + D + (E) - 2r - 4d</p> 
<p>Length = A + 2B + C + (E)</p> 	<p>Length = 2 (A + B) + 16d</p> 	<p>Length = A</p> 
<p>Length = C x 11 x (A - d) C = no. of turns</p> 	<p>SHAPE CODE 99: ALL OTHER SHAPES WHERE A STANDARD OR COMBINATION OF STANDARD SHAPES CANNOT BE USED. A 99 SHAPE CODE SHALL HAVE A MAXIMUM OF 4 BENDS.</p>	

Rebar and Mesh spacers are used to keep steel a certain distance away from the edge of the concrete once it has been poured.

Below are a few examples of what we keep in stock and their usage.

GRADE PLATE SPACERS - STYROFIX

A lightweight option for the spacing of fabric at the bottom of slabs. Their wide base gives extra stability and are ideal for use on damp proof membrane. Fixes to the mesh by clipping in, can be used vertically or horizontally.

Usage: 4 spacers per m².



CONCRETE SPACERS - TUBBLOCK

A more flexible spacer for the vertical and horizontal spacing of reinforcement bar providing maximum stability under normal loading conditions. Tied to the mesh by tie wire through the hole in the middle.

Usage: 4 spacers per m².



TWO METRE CONTINUOUS HYSTOOLS - CHAIRS

Two metre long continuous hystools are particularly useful for supporting single layers and separating top and bottom layers of mesh in slab construction.

Usage: 5 per sheet



DOUBLE LOOP TIES & TYING TOOL

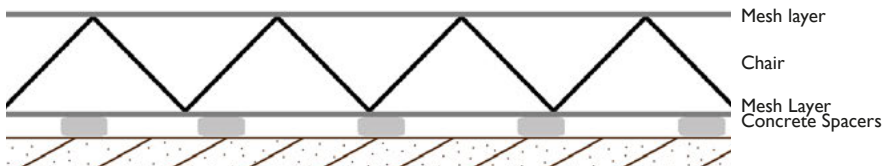
(wire twister)

We also stock 16g Tie Wire in 2kg or 10kg rolls.



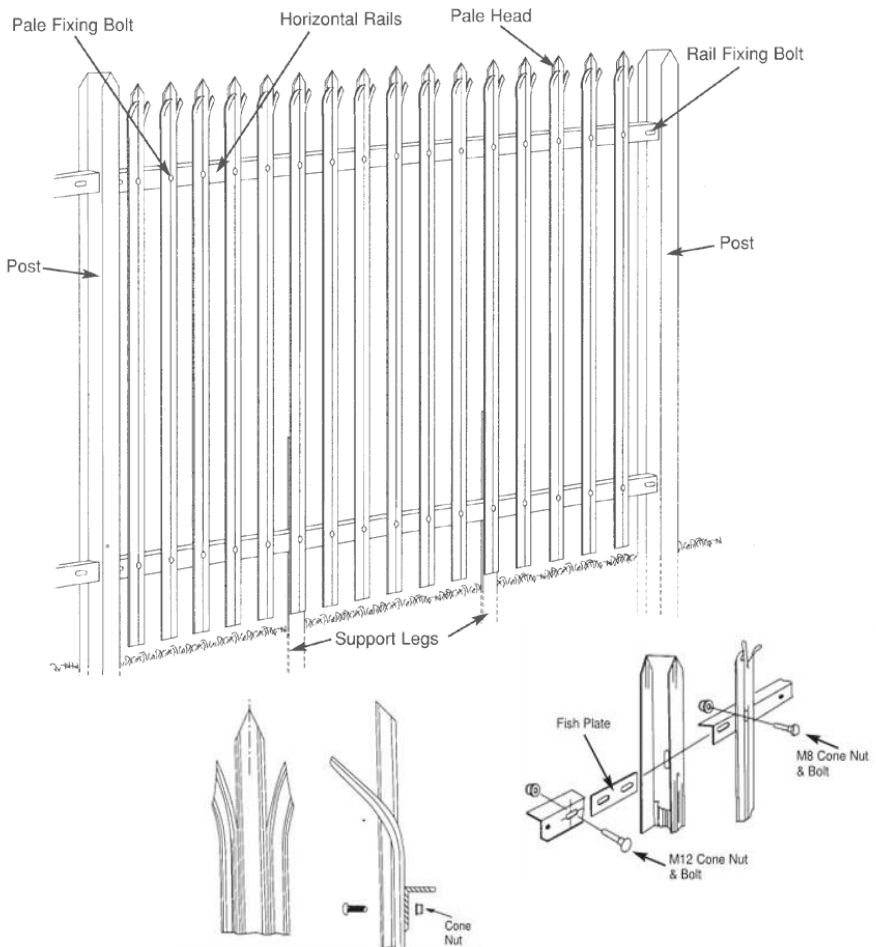
Below is an example layout for a double layer mesh system:

To Calculate: overall slab depth - top and bottom cover - total thickness of mesh sheets = spacing required between the two sheets.



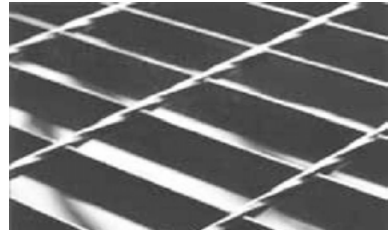
Palisade fencing is a high security fencing system that comes in an easy to assemble kit form of vertical steel pales and horizontal rails that bolt together into panels that mount onto RSJ posts. This allows for the panels to easily follow the contours of the ground where it is erected.

Palisade fencing is supplied with concrete in posts or bolt down posts. The standard finish is a galvanized coating to BS EN ISO 1461:2009 to give a long lasting, corrosion resistant coating. Palisade fencing can also be supplied powder coated to a RAL colour of your choice.



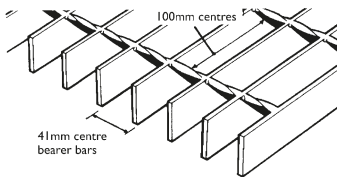
STANDARD PANELS

- 6 metres x 1 metre
- The bearer bars run the length of the panel
- Flooring can also be cut to size and shaped to suit your individual requirements
- Galvanized or self colour

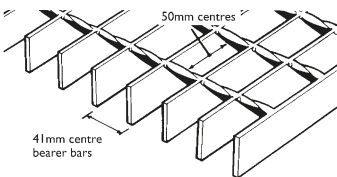


BAR ARRANGEMENTS:

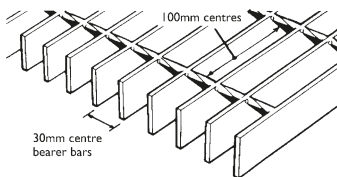
Type W100 - 41/100



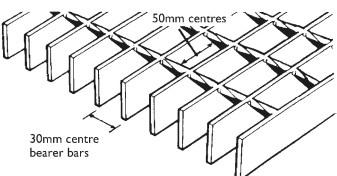
Type W50 - 41/50



Type N100 - 30/100



Type N50 - 30/50



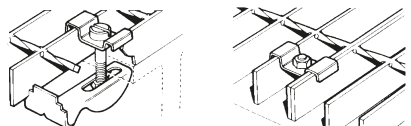
OPEN MESH FLOORING

Sect (mm)	41/100 kg/m	41/50 kg/m	31/100 kg/m	30/50 kg/m
20x3	13.44	15.25	17.70	19.50
25x3	16.39	18.19	21.64	23.44
30x3	19.34	21.14	25.73	27.54
40x3	25.25	27.05	33.61	35.40
20x5	21.31	23.11	28.36	30.16
25x5	26.22	28.03	35.08	36.88
30x5	31.15	32.95	41.63	43.44
35x5	36.06	37.87	48.36	50.16
40x5	40.98	42.78	55.08	56.88
45x5	45.90	47.70	61.64	63.44
50x5	50.82	52.62	68.36	70.16
55x5	55.74	57.37	75.08	76.88
60x5	60.65	62.29	81.63	83.44

FIXING CLIPS: Galvanized

For type W (41 mm between bars)

For type N (30mm between bars)



Specification (Mesh x Wire dia)	Sheet Size	
	4'x8'	6'x12'
1"x1"x12g	9.3	20.9
1"x1"x10g	14.1	31.9
2"x2"x12g	4.8	10.8
2"x2"x10g	7.1	15.9
2"x2"x8g	12.2	27.4
3"x3"x6g	11.5	25.9
3"x3"x8g	8.0	18.0
3"x3"x10g	4.8	10.8

Welded meshes are available either self-colour or galvanized finish.

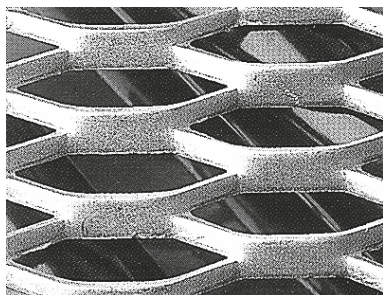
Weights quoted are approximate.

Other sizes are available.

Gauge	mm
12	2.5
10	3.0
8	4.0
6	4.88

EXPANDED METAL WALKWAY MESH:

Available in steel, aluminium and stainless steel.



FIXING CLIPS: Galvanized

For use with Ref. 4896 - Code No. 020217

For use with Ref. 2496 consisting of Hook, Bolt and Clamp.

Plain - Code No. 0201943

Galvanized - Code No. 0202943

Code No. 020217 (LRD-17A)

Not for use with 2496

Use hook-bolts



Ref No.	Type	Nom size of Aperture (mm) LW x SW	Nom size of Stands (mm) W T	Nominal Overall Thickness (mm)	Approx Weight Uncoated (kg/m2)	Standard (mm) LW x SW
4896	Plain	79.4x23.8	6.35 4.70	13.50	13.82	2440x1220
2496	Plain	44.5x12.70	6.10 4.70	12.70	17.69	2440x1220

Once your item is manufactured we offer a galvanizing service, providing your items with a long life and relatively maintenance free finish. Hot dip galvanizing has long been seen as the most environmentally friendly process available to prevent corrosion.

THE GALVANIZING PROCESS

The process consists of three distinct phases:

Pre-Treatment

Pre-Treatment consists of four separate stages:

Inspection - Items are inspected to ensure they are safe and suitable to galvanize. This may involve checking whether they are adequately vented. Surfaces are checked for signs of contamination with paint, grease etc. as these will not be removed in the process and would cause the process to fail.

Degreasing - Steel is immersed in a degreasing solution that removes light oil contamination.

Pickling - Acid strips the steel surface back to clean base steel.

Fluxing - A flux solution is applied to the steel to assist with the galvanizing reaction.

Galvanizing

Material is loaded on to jigs before being immersed in molten zinc at a temperature of around 450 degrees until the temperature of the work is the same as the zinc. During this process, the molten zinc reacts with the surface of the steel to form a series of zinc/iron alloys.

As work is removed, the zinc on its surface will begin to solidify and, as this happens, excess zinc is removed to ensure a smooth finish. Work is then usually transferred to a quench tank, where it is cooled to allow handling.

Inspection

The galvanized steel is first visually inspected for its appearance and conformity to standard. Batches may then be non-destructively tested for coating thickness and uniformity.

UNIVERSAL BEAMS (UB) & UNIVERSAL COLUMNS (UC)

Also known as an **H** or **I** section beams, or the older term RSJ's

The first dimension is the height; the second dimension is the width, and the third dimension is the kilograms per metre weight.

As the weight of these structural steels increase more material is added to the outside of the bar. This means actual height and width may differ from the size of the steel that is listed, see tables overleaf for actual dimensions.

Beams and columns are steel grade S355, and can be supplied as a bare metal finish, shotblasted and primer painted or galvanized depending on your specifications.

PARALLEL FLANGE CHANNEL (PFC)

Also known as a **C** shaped beam, or the older term RSC or rolled steel channel.

RETAINING SLEEPER WALLS

As well as being used structurally these steels can also be used for making retaining walls with wooden sleepers. The most used sizes for this purpose are:

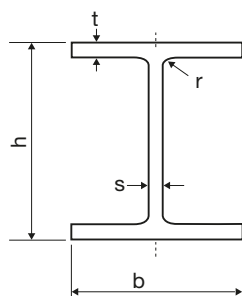
127x76x13 Universal Beam, internal measurement 110mm approx.

125x65x15 Parallel Flange Channel, internal measurement 105mm approx.

152x152x23 Universal Column, internal measurement 135mm approx.

150x75x18 Parallel Flange Channel, internal measurement 130mm approx.

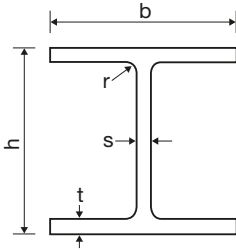
The above is a guide, different sizes maybe recommended by your structural engineer.



Size (mm)	Kg/M	Depth h (mm)	Width b (mm)	Web s (mm)	Flange t (mm)	Root Radius r
127x76x13	13	127	76	4	7.6	7.6
152x89x16	16	152.4	88.7	4.5	7.7	7.6
178x102x19	19	177.8	101.2	4.8	7.9	7.6
203x102x23	23	203.2	101.8	5.4	9.3	7.6
203x133x25	25	203.2	133.2	5.7	7.8	7.6
203x133x30	30	206.8	133.9	6.4	9.6	7.6
254x102x22	22	254	101.6	5.7	6.8	7.6
254x102x25	25	257.2	101.9	6	8.4	7.6
254x102x28	28	260.4	102.2	6.3	10	7.6
254x146x31	31	251.4	146.1	6	8.6	7.6
254x146x37	37	256	146.4	6.3	10.9	7.6
254x146x43	43	259.6	147.3	7.2	12.7	7.6
305x102x25	25	305.1	101.6	5.8	7	7.6
305x102x28	28	308.7	101.8	6	8.8	7.6
305x102x33	33	312.7	102.4	6.6	10.8	7.6
305x127x37	37	304.4	123.4	7.1	10.7	8.9
305x127x42	42	307.2	124.3	8	12.1	8.9
305x127x48	48	311	125.3	9	14	8.9
305x165x40	40	303.4	165	6	10.2	8.9
305x165x46	46	306.6	165.7	6.7	11.8	8.9
305x165x54	54	310.4	166.9	7.9	13.7	8.9

Size (mm)	Kg/M	Depth h (mm)	Width b (mm)	Web s (mm)	Flange t (mm)	Root Radius r
356x127x33	33	349	125.4	6	8.5	10.2
356x127x39	39	353.4	126	6.6	10.7	10.2
356x171x45	45	351.4	171.1	7	9.7	10.2
356x171x51	51	355	171.5	7.4	11.5	10.2
356x171x57	57	358	172.2	8.1	13	10.2
356x171x67	67	363.4	173.2	9.1	15.7	10.2
406x140x39	39	398	141.8	6.4	8.6	10.2
406x140x46	46	403.2	142.2	6.8	11.2	10.2
406x178x54	54	402.6	177.7	7.7	10.9	10.2
406x178x60	60	406.4	177.9	7.9	12.8	10.2
406x178x67	67	409.4	178.8	8.8	14.3	10.2
406x178x74	74	412.8	179.5	9.5	16	10.2
457x152x52	52	449.8	152.4	7.6	10.9	10.2
457x152x60	60	454.6	152.9	8.1	13.3	10.2
457x152x67	67	458	153.8	9	15	10.2
457x152x74	74	462	154.4	9.6	17	10.2
457x152x82	82	465.8	155.3	10.5	18.9	10.2
457x191x67	67	453.4	189.9	8.5	12.7	10.2
457x191x74	74	457	190.4	9	14.5	10.2
457x191x82	82	460	191.3	9.9	16	10.2
457x191x89	89	463.4	191.9	10.5	17.7	10.2
457x191x98	98	467.2	192.8	11.4	19.6	10.2
533x210x82	82	528.3	208.8	9.6	13.2	12.7
533x210x92	92	533.1	209.3	10.1	15.6	12.7
533x210x101	101	536.7	210	10.8	17.4	12.7
533x210x109	109	539.5	210.8	11.6	18.8	12.7
533x210x122	122	544.5	211.9	12.7	21.3	12.7

Size (mm)	Kg/M	Depth h (mm)	Width b (mm)	Web s (mm)	Flange t (mm)	Root Radius r
610x229x101	101	602.6	227.6	10.5	14.8	12.7
610x229x113	113	607.6	228.2	11.1	17.3	12.7
610x229x125	125	612.2	229	11.9	19.6	12.7
610x229x140	140	617.2	230.2	13.1	22.1	12.7
610x305x149	149	612.4	304.8	11.8	19.7	16.5
610x305x179	179	620.2	307.1	14.1	23.6	16.5
610x305x238	238	635.8	311.4	18.4	21.4	16.5
686x254x125	125	677.9	253	11.7	16.2	15.2
686x254x140	140	683.5	253.7	12.4	19	15.2
686x254x152	152	687.5	254.5	13.2	21	15.2
686x254x170	170	962.9	255.8	14.5	23.7	15.2
762x267x147	147	754	265.2	12.8	17.5	16.5
762x267x173	173	762.2	266.7	14.3	21.6	16.5
762x267x197	197	769.8	268	15.6	25.4	16.5
838x292x176	176	834.9	291.7	14	18.8	17.8
838x292x194	194	840.7	292.4	14.7	21.7	17.8
838x292x226	226	850.9	293.8	16.1	26.8	17.8
914x305x201	201	903	303.3	15.1	20.2	19.1
914x305x224	224	910.4	304.1	15.9	23.9	19.1
914x305x253	253	918.4	305.5	17.3	27.9	19.1
914x305x289	289	926.8	307.7	19.5	32	19.1
914x419x343	343	911.8	418.5	19.4	32	24.1
914x419x388	388	921	420.5	21.4	36.6	24.1

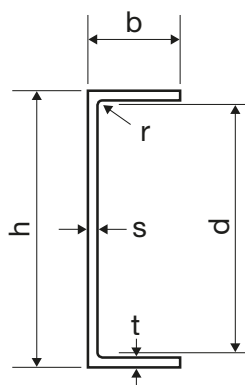


Size (mm)	Kg/M	Depth h (mm)	Width b (mm)	Web s (mm)	Flange t (mm)	Root Radius r
152x152x23	23	152.4	152.2	5.8	6.8	7.6
152x152x30	30	157.6	152.9	6.5	9.4	7.6
152x152x37	37	161.8	154.4	8	11.5	7.6
203x203x46	46.1	203.2	203.6	7.2	11	10.2
203x203x52	52	206.2	204.3	7.9	12.5	10.2
203x203x60	60	209.6	205.8	9.4	14.2	10.2
203x203x71	71	215.8	206.4	10	17.3	10.2
203x203x76	86.1	222.2	209.1	12.7	20.5	10.2
254x254x73	73.1	254.1	254.6	8.6	14.2	12.7
254x254x89	88.9	260.3	256.3	10.3	17.3	12.7
254x254x107	107.1	266.7	258.8	12.8	20.5	12.7
254x254x132	132	276.3	261.3	15.3	25.3	12.7
254x254x167	167.1	289.1	265.2	19.2	31.7	12.7
305x305x97	96.9	307.9	305.3	9.9	15.4	15.2
305x305x118	117.9	314.5	307.4	12	18.7	15.2
305x305x137	136.9	320.5	309.2	13.8	21.7	15.2
305x305x158	158.1	327.1	311.2	15.8	25	15.2
305x305x198	198.1	339.9	314.5	19.1	31.4	15.2
305x305x240	240	352.5	318.4	23	37.7	15.2
305x305x283	282.9	365.3	322.2	26.8	44.1	15.2
356x368x129	129	355.6	368.5	10.4	17.5	15.2
356x368x153	152.9	362	370.5	12.3	20.7	15.2
356x368x177	177	368.2	372.6	14.4	23.8	15.2
356x368x202	201.9	374.6	374.7	16.5	27	15.2

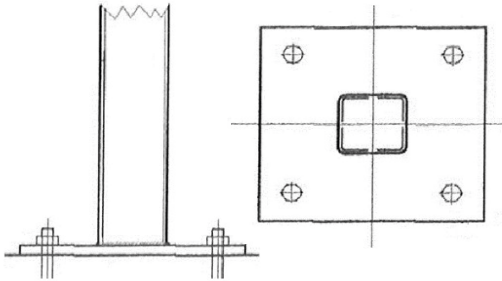
Size (mm)	Kg/M	Depth h (mm)	Width b (mm)	Web s (mm)	Flange t (mm)	Root Radius r	Depth d Between
100x50x10	10.2	100	50	5	8.5	9	65
125x65x15	14.8	125	65	5.5	9.5	12	82
150x75x18	17.9	150	75	5.5	10	12	106
150x90x24	23.9	150	90	6.5	12	12	102
180x75x20	20.3	180	75	6	10.5	12	135
180x90x26	26.1	180	90	6.5	12.5	12	131
200x75x23	23.4	200	75	6	12.5	12	151
200x90x30	29.7	200	90	7	14	12	148
230x75x26	25.7	120	75	6.5	12.5	12	181
230x90x32	32.2	230	90	7.5	14	12	178
260x75x28	27.6	260	75	7	12	12	212
260x90x35	34.8	260	90	8	14	12	208
300x90x41	41.4	300	90	9	15.5	12	245
300x100x46	45.5	300	100	9	16.5	15	237
380x100x54	54	380	100	9.5	17.5	15	315
430x100x64	64.4	380	100	11	19	15	362

ROLLED STEEL CHANNEL

Size (mm)	Kg/M
40x20x5	2.87
51x25x5	3.86
51x38x5	5.59
76x38x7	6.9



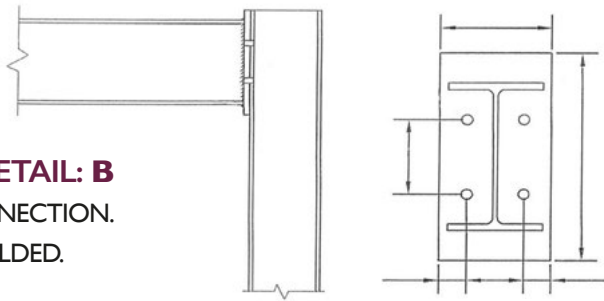
THE FOLLOWING ARE COMMON EXAMPLES OF
FABRICATION DETAILS WE CAN PROVIDE.



FABRICATION DETAIL: A

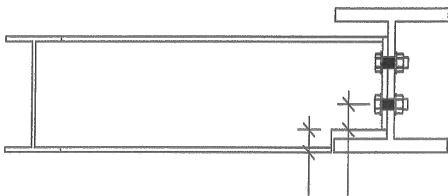
BOX WELDED TO BASE PLATE.

N.B. Box may be positioned
anywhere on the base plate.



FABRICATION DETAIL: B

BEAM TO BEAM CONNECTION.
PLATED AND WELDED.



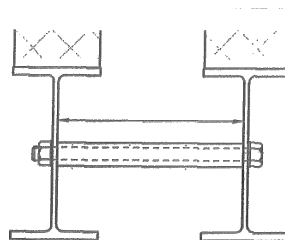
FABRICATION DETAIL: C

BEAM TO BEAM CONNECTION
PLATED AND BOLTED.

CAN BE LEVEL TOP OR BOTTOM OR
FLUSH DEPENDING ON BEAM SIZE.

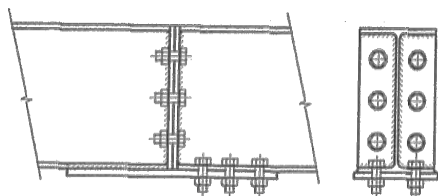
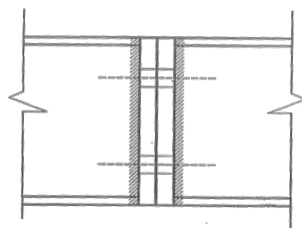
FABRICATION DETAIL: D

SPACE BOLT CONNECTION

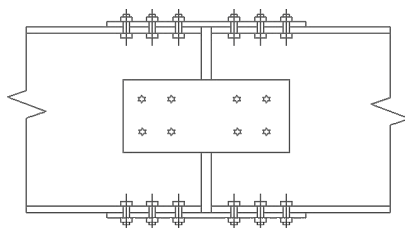


FABRICATION DETAIL: E

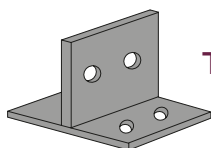
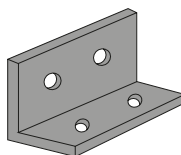
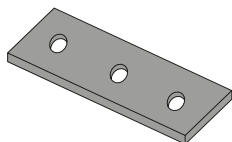
SPLICE CONNECTION.
2 END PLATES BOLTED.

**FABRICATION DETAIL: F**

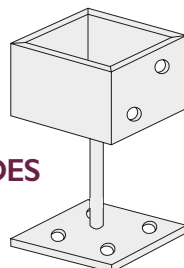
SPLICE CONNECTION WITH
TOP AND/OR BOTTOM PLATE - WELDED.

**FABRICATION DETAIL: G**

SPLICE CONNECTION PLATED.

**TEE BRACKET****CLEAT**

**PLATES AND
DRILLING OPTIONS**

**POST SHOES**

Size (mm)	Kg/M
21.3x3	1.43
26.9x3	1.87
33.7x2.5	1.99
33.7x3	2.41
33.7x4	2.93
42.4x2.5	2.55
42.4x3	3.09
42.4x4	3.79
48.3x3	3.56
48.3x4	4.37
48.3x5	5.34
60.3x3	4.51
60.3x4	5.55
60.3x5	6.82
76.1x3	5.75
76.1x4	7.11
76.1x5	8.77
88.9x3	6.76
88.9x4	8.38
88.9x5	10.3
114.3x3.5	9.83
114.3x5	13.5
114.3x6	16.8
139.7x5	16.6
139.7x6	20.7
139.7x8	26
139.7x10	32
168.3x5	20.1
168.3x6	25.2
168.3x8	31.6
168.3x10	39

Size (mm)	Kg/M
193.7x5	23.3
193.7x6	29.1
193.7x8	36.6
193.7x10	45.3
219.1x5	26.4
219.1x6	33.1
219.1x8	41.6
219.1x10	51.6
219.1x12.5	63.7
273.0x6	41.4
273.0x8	52.3
273.0x10	64.9
273.0x12.5	80.3
273.0x16	101
323.9x6	49.3
323.9x8	62.3
323.9x10	77.4
323.9x12.5	96
323.9x16.0	121
406.4x10	97.8
406.4x12.5	121
406.4x16.0	154
457.0x10	110
457.0x12.5	137
457.0x16	154
508.0x10	123
508.0x12.5	153
508.0x16.0	194

Size (mm)	Kg/M
20x20x2	1.12
25x25x2	1.43
25x25x2.5	1.74
25x25x3	2.04
30x30x2.5	2.14
30x30x3	2.51
40x40x2.5	2.92
40x40x3	3.45
40x40x4	4.46
50x50x2.5	3.71
50x50x3	4.39
50x50x4	5.72
50x50x5	6.97
60x60x3	5.43
60x60x4	6.97
60x60x5	8.54
60x60x6	9.45
70x70x3	6.28
70x70x3.5	7.46
70x70x5	10.11
80x80x3	7.22
80x80x3.6	8.59
80x80x5	11.7
80x80x6	13.9
80x80x6.3	14.4
90x90x3.6	9.72
90x90x5	13.3
90x90x6	15.76
100x100x3	8.96
100x100x4	12
100x100x5	14.8
100x100x6	17.6

Size (mm)	Kg/M
100x100x6.3	18.4
100x100x8	22.9
100x100x10	27.9
120x120x5	18
120x120x6	21.3
120x120x6.3	22.3
120x120x8	27.9
120x120x10	34.2
150x150x5	22.7
150x150x6	27
150x150x6.3	28.3
150x150x8	35.4
150x150x10	43.6
180x180x5	27.4
180x180x6.3	34.2
180x180x8	43
180x180x10	53
180x180x12.5	65.2
200x200x6.3	38.2
200x200x8	48
200x200x10	59.3
200x200x12.5	73
250x250x6.3	48.1
250x250x8	60.5
250x250x10	75
250x250x12.5	92.6
300x300x8	73.1
300x300x10	90.7
300x300x12.5	112

Size (mm)	Kg/M
50x25x2.5	2.72
50x25x3	3.22
50x30x2.5	2.92
50x30x3	3.45
60x40x3	4.39
60x40x4	5.72
75x50x3	6.02
80x40x3	5.34
90x50x3	6.28
90x50x3.6	7.46
90x50x5	10.11
100x50x3	6.75
100x50x4	8.86
100x50x5	10.9
100x50x6	12.9
100x60x3.6	8.59
100x60x5	11.7
100x60x6	13.9
120x60x3.6	9.72
120x60x5	13.3
120x60x6	15.7
120x60x6.3	16.4
120x80x5	14.8
120x80x6	17.6
120x80x8	22.9
150x100x5	18.7
150x100x6	22.3
150x100x8	29.1
150x100x10	35.7

Size (mm)	Kg/M
160x80x5	18
160x80x6	21.3
160x80x8	27.9
200x100x5	22.7
200x100x6.3	27
200x100x8	35.4
200x100x10	43.6
250x150x5	30.5
250x150x6.3	38.2
250x150x8	48
250x150x10	59.3
250x150x12.5	73
300x200x6.3	48.1
300x200x8	60.5
400x200x8	73.1
400x200x10	90.7

ERW steel box is so called because of the electronic resistance welding method employed in its manufacture, which uses a combination of heat and pressure resulting in a very consistent and strong forged weld seam.

SQUARE

Size (mm)	Weight Kg/M
12.7x12.7x1.5	0.53
16x16x1.5	0.67
19x19x1.5	0.84
20x20x1.5	0.87
22x22x1.5	0.98
25x25x1.5	1.15
30x30x1.5	1.40
40x40x1.5	1.81
50x50x1.5	2.28

RECTANGULAR

Size (mm)	Weight Kg/M
40x20x1.5	1.40
50x25x1.5	1.72

CIRCULAR

Size (mm)	Weight Kg/M
12.7x1.5	0.45
16x1.5	0.53
19x1.5	0.65
20x1.5	0.69
20x2.0	0.92
22x1.5	0.78
25.4x1.5	0.89
31.75x1.5	1.20
31.75x2.0	1.82
38x1.5	1.40
40x2.0	1.90
44.45x2.0	2.40
50x1.5	1.80
63.5x1.5	3.50

Available in Black or Galvanized, screwed and socketed or plain ended.

LIGHT

Nominal Bore (mm)	Outside Diameter (mm)	Thickness (mm)
8	13.2 to 13.6	1.80
10	16.7 to 17.1	1.80
15	21.0 to 21.4	2.00
20	26.4 to 26.9	2.35
25	33.2 to 33.8	2.65
32	41.9 to 42.5	2.65
40	47.8 to 48.4	2.90
50	59.6 to 60.2	2.90
65	75.4 to 76.0	3.25
80	87.9 to 88.7	3.25
100	113.0 to 113.8	3.65

HEAVY

Nominal Bore (mm)	Outside Diameter (mm)	Thickness (mm)
8	13.3 to 13.9	2.90
10	16.8 to 17.4	2.90
15	21.1 to 21.7	3.25
20	26.6 to 27.2	3.25
25	33.4 to 34.2	4.05
32	40.1 to 42.9	4.05
40	48.0 to 48.8	4.05
50	59.8 to 60.8	4.50
65	75.4 to 76.6	4.50
80	88.1 to 89.5	4.55
100	113.3 to 114.9	5.40
125	138.7 to 140.6	5.40
150	164.1 to 166.1	5.40

MEDIUM

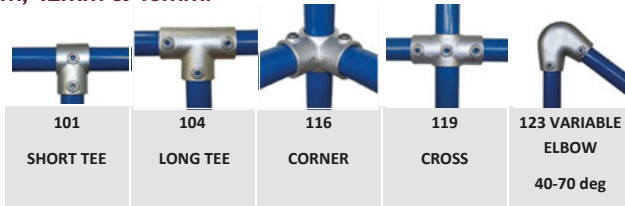
Nominal Bore (mm)	Outside Diameter (mm)	Thickness (mm)
8	13.3 to 13.9	2.35
10	16.8 to 17.4	2.35
15	21.1 to 21.7	2.65
20	26.6 to 27.2	2.65
25	33.4 to 34.2	3.25
32	40.1 to 42.9	3.25
40	48.0 to 48.8	3.25
50	59.8 to 60.8	3.65
65	75.4 to 76.6	3.65
80	88.1 to 89.5	4.05
100	113.3 to 114.9	4.05
125	138.7 to 140.6	4.85
150	164.1 to 166.1	4.85













For matching
Tubeclamp Fittings
see pages 33-34

We carry a wide range of Tubeclamp fittings in stock. These are available in the following tube sizes: 27mm, 33mm, 42mm, 48mm & 60mm. However, the main sizes we stock are 33mm, 42mm & 48mm.

TUBECLAMP

Tube (O/D)	Size
26.9mm	A
33.7mm	B
42.4mm	C
48.3mm	D
60.3mm	E



						
173 SINGLE SWIVEL COMBINATION	176 SIDE OUTLET TEE	182 HOOK	198 DOUBLE LUG BRACKET	199 SINGLE LUG BRACKET	251 SLOPING BASE FLANGE 30-45deg	252 SLOPING BASE FLANGE 11-29deg
						
253 SLOPING SHORT TEE 11-29deg	255 SLOPING LONG TEE 11-29deg	256 SLOPING MIDDLE RAIL 11-29deg	ALLEN KEY FOR CLAMP SIZE A & B	ALLEN KEY FOR CLAMP SIZE C, D & E		

The Interclamp Assist range has been especially designed to help compliance with the public access requirements of the Equality Act 2010 (formerly DDA) and Building Regulations Part M 2013. No other special fittings are required, which enables full integration with both new Interclamp systems and the refurbishment or upgrading of existing tubular structures to help meet the newer access specifications.

						
725 90deg ELBOW	728 INTERNAL CORNER BRACKET	729 EXTERNAL CORNER BRACKET	731 WALL FLANGE FOR USE WITH 725	745 WALL BRACKET SUITS 42 & 48mm TUBE	746 SADDLE WALL BRACKET	747 INTERNAL SWIVEL BRACKET SUITS 42 & 48mm TUBE
						
748 INTERNAL SWIVEL SADDLE BRACKET	750 SWIVEL TEE	751 SWIVEL SADDLE BRACKET	764 INLINE ADJUSTABLE KNUCKLE	797 RUBBER O-RING	300 ADDITIONAL SETSCREW	303 SECURITY SETSCREW

PLEASE NOTE THAT THE DDA RANGE IS ONLY AVAILABLE TO SUIT 42mm O/D TUBE UNLESS OTHERWISE STATED. We also stock black plastic end caps to suit all tube sizes.

Please visit our trade counter, where our professional and friendly staff can serve you with your steel requirements and also offer help and advice on the following products.

POWER TOOLS

- Main agents for Hikoki, Dewalt, Bosch, Makita, Milwaukee, Metabo, Alfa and Panasonic
- From 12v drill drivers to demolition hammers, angle grinders to bench grinders or circular saws to bandsaws, we can supply whatever you need
- Power tool repairs and servicing



HAND TOOLS

- Stockists for Irwin, Stanley, Bahco, Wera, Faithfull, Draper, Knipex, Gedore, Bessey clamps and Roughneck
- Wide range of hand tools in stock
Cutting, grinding, TCT blades, abrasive mop and sanding discs



SAFETY EQUIPMENT

- Safety footwear
- Face, eye and ear protection
- Gloves
- Hi-Vis coats, trousers and vests
- Waterproof clothing



WELDING EQUIPMENT

MIG • ARC • TIG • PLASMA • GAS

- Main agents for Jasig, Parweld, Autostar and SifWeld
- Large range of machines in stock
- Demonstrations upon request
- Wide range of automatic helmets in stock
- Full range of consumables
- Wide range of mig wire, welding rods and tig / brazing rods



PAINT

Stockists of:

- Red and grey zinc phosphate primer (oxide)
- Galvanizing paint
- Black gloss
- Thinners
- Aluminium paint
- Paint brushes, rollers and refills
- Bags of wiping rags



FIXINGS

We can supply a wide range of fixings to suit all your needs

- High tensile bolts, set screws, nuts and washers
- Carriage bolts
- Coach screws
- Thunder bolts
- Sleeve anchors
- Threaded bar
- Hook bolts
- Gate fittings
- Roofing screws
- Pop rivets and rivet guns
- Chemical anchor resin
- Sealants
- Adhesives



We offer a range of industrial gases without the need to enter into a contract. Just pay an initial VAT free deposit on the cylinder and gas, then pay for refills of the gas as you use it.

NO ANNUAL FEE, JUST PAY FOR WHAT YOU USE.

If you no longer need the gas, return the cylinder for a full refund of your deposit. IT'S AS SIMPLE AS THAT!

We are also an agent and stockist of Propane for Calor Gas.

GAS TYPES AND CYLINDER SIZES:

- 5% Argon/CO₂ mix. 10ltr, 20ltr & 50ltr
 - 12% Argon/CO₂ mix. 10ltr, 20ltr & 50ltr
 - 20% Argon/CO₂ mix. 10ltr, 20ltr & 50ltr
 - Pure Argon 10ltr, 20ltr & 50ltr
 - Oxygen 10ltr, 20ltr & 50ltr
 - Oxygen free Nitrogen. 2ltr, 10ltr & 20ltr
 - CO₂ gas offtake 1.5kg, 3.15kg & 6.35kg
 - Propylene 2ltr, 10ltr & 20ltr
 - CO₂/Nitrogen 30/70 mix 2ltr & 10ltr
 - CO₂/Nitrogen 60/40 mix 10ltr
 - Helium balloon gas 9ltr & 20ltr
- We also carry Helium balloon gas inflators in stock.
- Propane 6kg, 13kg, 19kg & 47kg
 - Automotive Propane 18kg



CO₂/ARGON MIX 5

93% Argon, 2% Oxygen, 5% Carbon Dioxide
MIG welding mild steel up to 6mm thick

CO₂/ARGON MIX 12

86% Argon, 2% Oxygen, 12% Carbon Dioxide
MIG welding mild steel 4-12mm thick

CO₂/ARGON MIX 20

78% Argon, 2% Oxygen, 20% Carbon Dioxide
MIG Welding mild steel Material thickness between 6mm-14mm+

ARGON

99.9% Argon
Material thickness 1mm –12mm. Used for thin and medium sections.
Good arc control, used with or without pulse.

OXYGEN

Widely used with a fuel gas for cutting, welding, brazing and soldering.
Also fish keeping and farming.

OXYGEN FREE NITROGEN

For use in air conditioning, racing tyres, aircraft tyres, food preservation
and paint ball.

CARBON DIOXIDE GAS OFF TAKE

For use in MIG welding, hydroponics & plant horticulture, aquatic plants.

PROPYLENE

For use in heating, cutting, welding and brazing.

CO₂/NITROGEN 30/70 MIX

For use with bitters and Guinness.

CO₂/NITROGEN 60/40 MIX

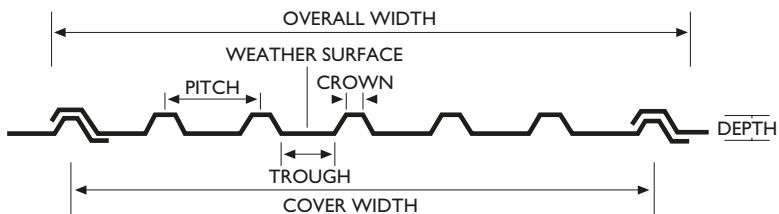
For use with lagers and ciders.



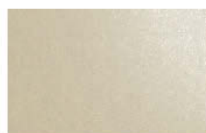
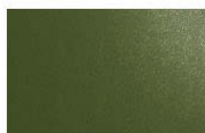
STEEL ROOFING

- Steel profiled sheet with Polyester or Plastisol finish. Available in 0.5mm or 0.7mm
- Any length to order
- Anti-condensation finish available
- Composite Panel sheets made to order
- GRP Translucents
- Fibre Cement
- Flashings and gutters
- Steel Purlins

There are over 300 different profiles available, to identify an existing profile for matching we need the following information:



COLOURCOAT® LG PRE FINISHED STEEL FOR ROOF AND WALL CLADDING

White **CD1** 00E55Goosewing Grey **CD1** 10A05Meadowland **CD1** 12B17Hamlet **CD1** RAL 9002Albatross **CD1** 18B17Merlin Grey **CD1** 18B25Moorland Green **CD1** 12B21Honesty **CD1** 10C31Wedgewood Blue **CD1** 18C37Raven **CD2** 18B29Heritage Green **CD2** RAL 6002Mushroom **CD1** 10B19Ocean Blue **CD2** 18C39Anthracite **CD2** RAL7016Olive Green **CD1** 12B27Terracotta **CD2** 04C39Sargasso **CD2** RAL 5003Black **CD1** 00E53Juniper Green **CD2** 12B29Vandyke Brown **CD2** 08B29

NOTES:

- The standard colour references shown above are the nearest equivalents.
- The printed colours shown for Colourcoat® LG are for guidance only. For a true representation of colour and effect, please obtain colour samples.
- If an exact match between components and Colourcoat® LG is essential, this is best achieved by matching to the actual cladding delivered to site.

ONDULINE LIGHTWEIGHT CORRUGATED BITUMEN ROOFING SHEETS

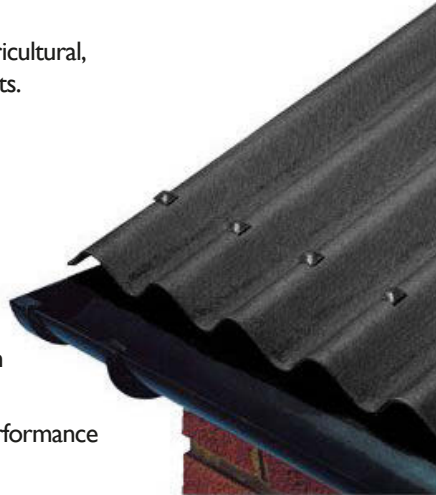
Onduline Roofing is an attractive, lightweight but extremely tough corrugated cladding which is manufactured from bitumen-saturated organic fibres.

They are stocked in 2 metre lengths with an overall width of 950mm, finished in black.

Suitable for a wide range of applications in agricultural, industrial, domestic and environmental projects.

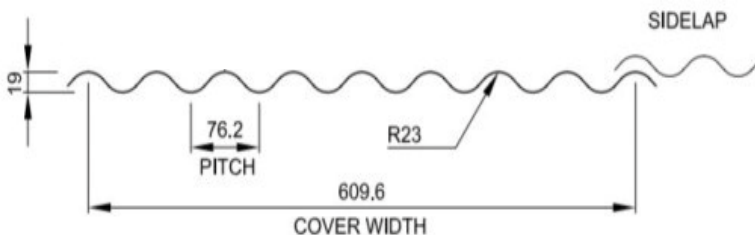
SYSTEM BENEFITS

- Easy to cut, shape and fix
- 15 year insurance-backed water proofing guarantee*
- Excellent colour retention properties
- Withstands wind speeds of up to 120mph
- European CE Declaration of Conformity
- High insulation and sound absorbency performance
- Does not rust, rot or become brittle



CORRUGATED SHEETS

We stock galvanized corrugated sheets in 6', 7', 8', 9' 10' and 12' lengths. Sheets cover 600mm and are 8/3 corrugations.



We also keep in stock 6', 8' and 10' HD clear corrugated sheets to match the above profile and 6"x6" roll top ridges in 6' lengths with a range of fixings to suit.

We stock a wide range of roofing screws or Tex fixings. These are used secure steel roof sheets and flashings to either timber, steel or even concrete.

Tex fixings are designed to fix sheets in the “valley” section of the profile.

TEX FOR ZED PURLIN

- 8mm Hex Head
- No.3 drill tip for self-drilling in heavy gauge steel up to 3.2mm
- Complete with 19mm EPDM rubber washer

Available in the following lengths: 25mm, 65mm, 70mm, 85mm, 105mm, 115mm & 135mm



TEX STITCHER

Used for joining metal roofing sheet panels together

- Self-Drilling in Roofing Sheet Steel up to 2.5mm
- 8mm Hex Head
- Smaller No. 1 drill tip can drill through two sheets then engage the threads to clamp the sheets together under the head



TEX FOR THICK STEEL OR HEAVY SECTION

- 8mm Hex Head
- No.5 drill tip for self-drilling in heavy gauge steel up to 12.5mm
- Complete with 19mm EPDM rubber washer

Available in the following lengths: 38mm, 55mm, 76mm, 85mm, 105mm & 125mm



TEX FOR TIMBER

- 8mm Hex Head
- No pre-drilling is required and the self-drilling T17 Gash Point on screws makes for a rapid installation
- Complete with 19mm EPDM rubber washer
- Suitable for a steel thickness of 0.5-1.2mm

Available in the following lengths: 32mm, 45mm, 60mm, 80mm, 100mm & 125mm



COUNTERSUNK TEX FOR FIXING TIMBER TO STEEL

- Screw fitted with breakaway wings that create a clearance hole to protect thread from engaging timber when drilling through
- Breakaway wings will ream a hole then break-off when they contact the metal surface to be drilled. Thread will then engage with metal

Available in the following lengths: 38mm, 50mm, 60mm, 85mm & 105mm



We also carry plastic caps in a wide range of colours to fit our Tex screws.

PLEASE FEEL FREE TO CONTACT US IF YOU NEED ANY TECHNICAL ADVICE.

Head Office

Ash House
Blythe Way
Yalberton Industrial Estate
Paignton
Devon
TQ4 7QP

Tel: 01803 664020

Email: sales@austenknapman.co.uk

www.austenknapman.co.uk

Saltash Branch

Birch House
Forge Lane
Moorlands Trading Estate
Saltash
Cornwall
PL12 6LX

Tel: 01752 847799

Email: saltashsales@austenknapman.com