

Ancon[®]
**Stainless Steel
Sections & Flooring**
for the Engineering Industry

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Stainless Steel Sections & Flooring

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ISO 9001:2008
FM12226



ISO 14001:2004
EMS 505377



ISO 45001:2018
OHS 548992



BSSA

Austenitic Stainless Steel

Austenitic Stainless Steels are high in chromium and therefore offer excellent resistance to corrosion. They are ductile and strong, and can be readily formed and welded.

We hold considerable stocks of standard grade Austenitic stainless steel in order to meet urgent delivery deadlines.

Grade 1.4301 (304) is the most commonly used and is suitable for a broad range of applications. Grade 1.4401 (316) is recommended for highly corrosive environments such as marine locations.

Material can be supplied fully certificated if required.



Section Forming

Cold Formed Sections

Leviat manufactures a diverse range of stainless steel cold formed sections using the latest high capacity computer controlled machinery.



Computer controlled press brakes, which are among the most advanced in the industry, enable the company to produce a wide range of section shapes up to 5m in length and from 2mm to 20mm in thickness.

Typical Section Properties

As an aid to the selection of appropriate cold formed sections the following page shows a small sample of section properties. A full list of properties is available from Leviat on request.

Other typical section shapes include:



Profiles



Lipped Channel

Ancillary Operations

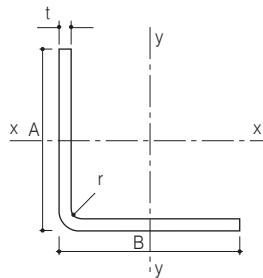
Sections can be offered with a range of ancillary operations including laser profiling, welded stiffeners, punched holes or slots and curves.

Products can be supplied with a specific surface finish to suit the requirements of the application. Services available include electro-polishing and bead blasting.



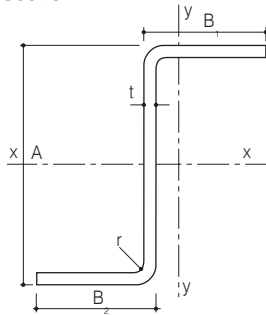
Punching

Angle Section



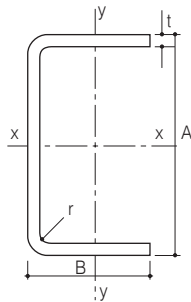
Angle Size A x B mm	Thickness t mm	Radius r mm	Moment of Inertia I (cm ⁴)		Section Modulus Z (cm ³)		Weight kg/m
			xx	yy	xx	yy	
25 x 25	3	3	0.79	0.79	0.46	0.46	1.07
50 x 50	3	3	1.42	1.42	0.67	0.67	1.31
130 x 120	5	8	208.03	171.27	22.21	19.29	9.50
100 x 120	6	16	117.69	183.12	15.90	21.89	9.76
150 x 140	6	16	380.64	322.12	35.33	31.31	13.08
140 x 120	8	15	389.54	267.49	39.75	30.28	15.41
190 x 200	8	15	1075.07	1217.56	76.97	84.22	23.63
110 x 100	10	21	223.70	177.20	29.59	25.00	14.92
140 x 130	10	21	484.83	404.66	49.36	43.30	19.66
140 x 200	10	21	559.31	1334.58	52.62	98.68	25.19
180 x 180	10	21	1092.62	1092.62	84.25	84.25	26.77
120 x 110	12	20	346.68	279.90	42.07	36.03	19.61
170 x 140	12	20	1005.93	625.14	85.98	60.94	27.19
130 x 100	15	20	502.51	262.08	58.84	36.77	24.08
150 x 130	15	20	835.59	586.74	81.71	63.27	30.00

Zed Section



Zed Size A x B ₁ x B ₂ mm	Thickness t mm	Radius r mm	Moment of Inertia I (cm ⁴)		Section Modulus Z (cm ³)		Weight kg/m
			xx	yy	xx	yy	
50 x 25 x 25	3	3	9.73	10.90	3.89	3.47	2.14
140 x 70 x 35	4	4	251.28	123.46	31.31	17.50	7.33
70 x 35 x 35	5	4	42.83	48.04	12.24	11.08	4.91
110 x 50 x 50	6	8	153.15	163.11	30.63	26.17	8.46
160 x 80 x 40	8	8	674.19	289.95	73.30	37.84	16.03
200 x 100 x 100	10	15	2125.48	2302.29	212.55	181.97	28.66
150 x 75 x 75	12	15	943.93	948.66	125.86	105.16	24.46
190 x 95 x 95	15	10	2078.96	2216.59	218.84	187.89	32.04

Equal Channel Section

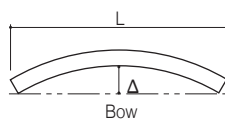


Channel Size A x B mm	Thickness t mm	Radius r mm	Moment of Inertia I (cm ⁴)		Section Modulus Z (cm ³)			Weight kg/m
			xx	yy	xx	yy max	yy min	
50 x 25	3	3	9.70	1.56	3.88	2.04	0.90	2.14
100 x 50	4	4	113.00	18.06	22.60	12.58	5.07	5.90
160 x 80	5	4	603.40	95.76	75.42	43.04	16.58	12.02
110 x 55	6	8	208.39	33.67	37.89	20.16	8.79	9.41
80 x 40	8	8	87.34	14.17	21.83	10.23	5.42	8.45
200 x 100	10	15	2118.70	342.27	211.87	113.98	48.92	28.66
150 x 75	12	15	935.18	151.80	124.69	61.47	30.18	24.46
190 x 95	15	20	2372.83	385.13	249.77	123.11	60.44	38.68

Note: Properties listed vary from those for rolled sections due to cold forming and the effect of the formed radius.

Tolerances

Unless otherwise agreed the tolerances applicable to cold formed sections are as below:



Element		Tolerance
Overall length (up to and including 4000mm)	L	±5mm
Leg Length - Angle	A/B	±3mm
Leg Length - Channel/Zed	A	±5mm
	B	±3mm
Thickness	t	±7.5%
Included Angle	∅	±2°
Hole or Slot Centres	c	±5mm
Bow, on both axis	Δ	±3mm per metre length

Notes: 1 The manufacturing tolerances set out in the table will meet most applications. Should closer tolerances be required, please provide a drawing indicating your requirements. 2 The tolerances are not applicable to curved members.

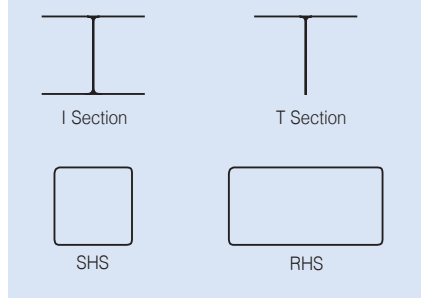
Stainless Steel Sections & Flooring

Fabricated Sections

In addition to cold formed sections, we produce Ancon stainless steel fabricated sections.

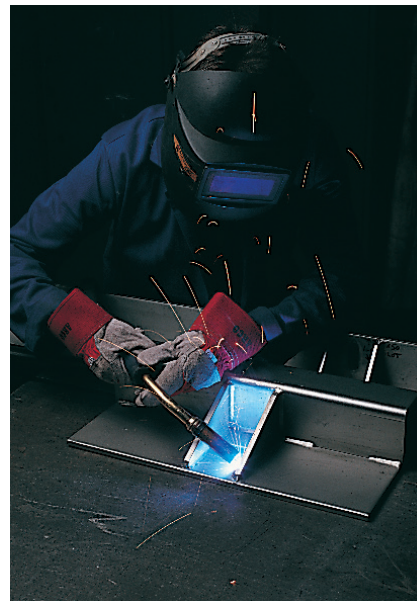
Ancon's fabrication personnel are routinely coded to BS4872 and in addition are regularly approved to BS EN 287 to weld to the procedures specific to BS EN 288.

Sections available include:

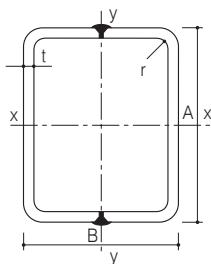


Typical Fabricated Section Properties

As an aid to the selection of appropriate fabricated sections the following is a small sample of section properties. A full list of properties is available on request.

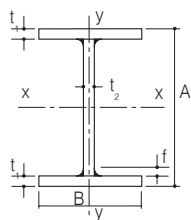


Fabricated Hollow Section



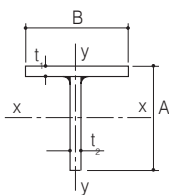
Box Section Size A x B	Thickness t	Radius r	Moment of Inertia I (cm ⁴)		Section Modulus Z (cm ³)		Weight kg/m
			xx	yy	xx	yy	
70 x 50	4	4	54.44	32.01	15.56	12.80	6.75
130 x 130	5	4	628.43	628.43	96.68	96.68	19.31
150 x 100	6	8	821.26	437.42	109.50	87.48	21.67
110 x 80	8	8	394.26	236.88	71.68	59.22	20.69
170 x 150	10	15	2232.86	1837.29	262.69	244.97	44.69
150 x 130	12	15	1641.79	1307.74	218.91	201.19	45.12
200 x 200	15	20	5650.88	5650.88	565.09	565.09	82.09

Fabricated I Section



I Section Size B x A	Size of Fillet f	Thickness		Moment of Inertia I _{xx} (cm ⁴)	Section Modulus Z _{xx} (cm ³)	Radius of Gyration about yy axis		Weight kg/m
		t ₁	t ₂			R _y (cm)	A/t ₁	
130 x 200	6	8	6	2229.5	223.0	3.03	25.0	25.72
150 x 300	6	10	6	7407.6	493.8	3.47	30.0	37.54
200 x 300	6	10	6	9510.9	634.1	4.85	30.0	45.44
250 x 450	10	16	10	43774.0	1946.0	5.85	28.1	97.80

Fabricated T Section



T Section Size B x A	Size of Fillet f	Thickness		Moment of Inertia I _{xx} (cm ⁴)	Section Modulus Z _{xx} (cm ³)		Radius of Gyration about yy axis R _y (cm)	Weight kg/m
		t ₁	t ₂		Max.	Min.		
75 x 100	8	8	8	134.87	42.75	19.70	1.46	11.06
100 x 120	10	10	8	258.08	78.00	29.69	2.11	15.64
150 x 150	10	10	10	637.24	154.65	58.57	3.12	23.70
200 x 250	12	12	10	2992.47	438.68	164.69	4.10	38.90

Staigrig Open Grid Flooring

Staigrig stainless steel grid is a lightweight, corrosion resistant open grid flooring, ideal for use where hygiene, low maintenance and assured long life are required.

The combination of durability and high strength means Staigrig is a very cost-effective alternative to galvanised steel and aluminium grid floors. It is available in mill finish, pickled and passivated or electropolished finish.

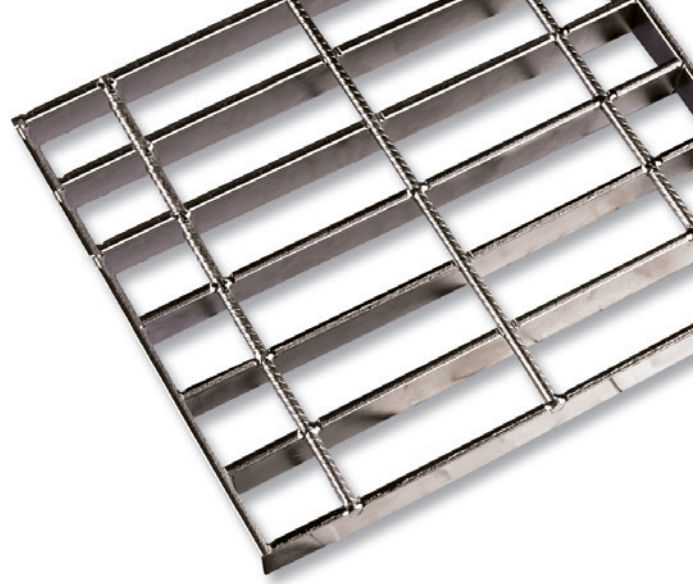
Stainless Steel Staigrig open grid flooring is available in either grade 1.4301 (304) or 1.4401 (316) and manufactured in standard sized panels of 1000mm max span x 497mm max width for ease of site handling. Panels can be produced to customers' specific requirements within these dimensions using Ancon universal tooling.

Each panel consists of 25mm x 5mm bearer bars at 41mm centres and 6mm rebar restraints at 100mm centres.

Staigrig panels are supplied fully bound and full mill certification is available if required.

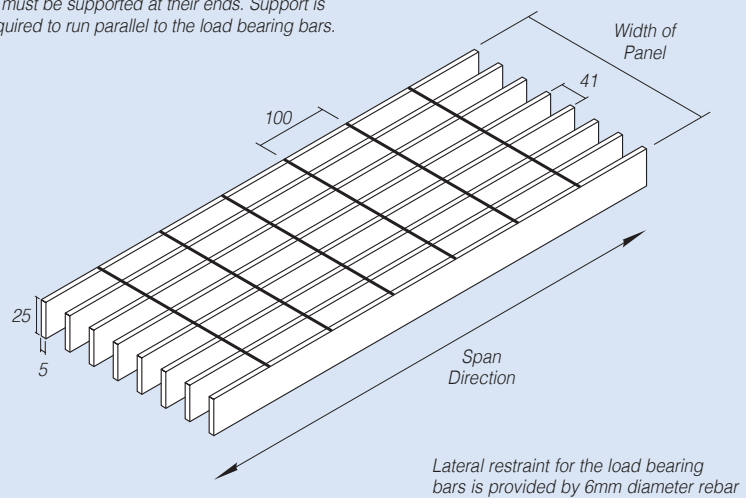
When ordering please specify:

1. Grade of stainless steel required
2. Span, width and quantity of panels



Load Bearing Bar 25 x 5mm

Load bearing bars run in the direction of the span. These must be supported at their ends. Support is not required to run parallel to the load bearing bars.



Clear Span (mm)	25 x 5 bars at 41 c/c Uniformly Distributed Load		25 x 5 bars at 41 c/c Load Concentrated on 150mm Square		25 x 5 bars at 41 c/c Load Concentrated on 300mm Square	
	Permissible Load (kN/m ²)	Deflection (mm/kN/m ²)	Permissible Load (kN)	Deflection (mm/kN)	Permissible Load (kN)	Deflection (mm/kN)
300	163.731	0.003	4.028	0.128	14.097	0.039
350	120.292	0.006	3.295	0.210	10.573	0.070
400	92.099	0.010	2.788	0.320	8.458	0.110
450	72.769	0.017	2.417	0.461	7.049	0.170
500	58.943	0.026	2.132	0.639	6.042	0.242
550	48.713	0.038	1.908	0.857	5.286	0.331
600	40.933	0.053	1.726	1.118	4.699	0.440
650	34.878	0.073	1.576	1.428	4.229	0.569
700	30.073	0.098	1.450	1.790	3.845	0.720
750	26.197	0.130	1.343	2.207	3.524	0.895
800	23.025	0.168	1.250	2.685	3.253	1.096
850	20.396	0.214	1.169	3.227	3.021	1.324
900	18.192	0.269	1.098	3.836	2.819	1.581
950	16.328	0.334	1.036	4.518	2.643	1.870
1000	14.736	0.410	0.980	5.276	2.488	2.191

Note: All loads listed are limited to: Bending Stress $\leq 145\text{N/mm}^2$, Shear Stress $\leq 96.67\text{N/mm}^2$, Deflection $\leq \text{Span}/100$

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