Hot Rolled Structural & Plate

Beams, Columns, Channels, Angles, Merchant Bar & Plate

we'll see it through

Orrcon Steel

Orrcon Steel is a leading Australian distributor and manufacturer of Steel, Tube and Pipe.

We have distribution centres in five Australian states and a number of branches, stockists and resellers nation-wide.

Orrcon Steel adheres to principles of quality, innovation, flexibility and dedication. These principles are achieved by going the extra mile in everything we do and working in partnership with our customers and suppliers.

At Orrcon Steel – we'll see it through.

Orrcon Steel offers a range of hot rolled structural and plate products, including beams, columns, channels, merchant bar (flats, angles, rounds, squares) & plate.

Our hot rolled structural and plate products are used across a wide range of structural applications from building structures to major sporting arenas, major mining and industry infrastructure and for aesthetic structural use such as airports and shipping terminals.

Product sizes are as follows*:

Universal beams:	150 - 610
Universal columns:	100 - 310
Parallel flange channels:	50x25 - 380x100
Equal angles:	20 - 200
Unequal angles:	65x50 - 150x100
Merchant bar:	10 - 300 | 3-50 thick
Plate:	1200 - 1800 | 3 - 100 thick

*All measurements are in mm

Some gauges within this range will be sourced from pre-qualified suppliers which may involve longer lead times.

Sizes outside this range are available subject to enquiry.

PRODUCT STANDARDS & GRADES

Flats/Angles/Rounds/Squares – Manufactured in accordance with AS/NZS 3679.1. Grades available – 300 MPa.

UB, UC, PFC & Angles – Hot rolled sections are produced in accordance with AS/NZS 3679.1. Grades available – 300MPa.

Plain & Floor (Checker) Plate – Manufactured in accordance with AS/NZS 3678 and AS/NZS 1594. - Grades available - 250 & 350 MPa.

SERVICES

Computerised Nesting and Quoting

Processing – Including straight and mitre cutting. Drilling and plasma profiling only available at selected QLD branches.

Delivery of all products

Other requirements – Please contact your Orrcon Steel representative.

Structural Band Saw

Note:

• Not all services available at all locations. Contact your Orrcon Steel representative for details.

UNIVERSAL BEAMS (UB)

Section: Universal Beams (UB)
Standard: AS/NZS 3679.1
Grade: 300MPa
Surface Finish: Mill Finish

Size Specification (mm)	Weight (kg/m)	Metre/ Tonne	Depth of Section	Flange (mm)		Web (mm)	
				Width	Thickness	Depth	Thickness
150 UB	14.0	71	150	75	7.0	136	5.0
150 UB	18.0	56	155	75	9.5	136	6.0
180 UB	16.1	62	173	90	7.0	159	4.5
180 UB	18.1	55	175	90	8.0	159	5.0
180 UB	22.2	45	179	90	10.0	159	6.0
200 UB	18.2	55	198	99	7.0	184	4.5
200 UB	22.3	45	202	133	7.0	188	5.0
200 UB	25.4	39	203	133	7.8	188	5.8
200 UB	29.8	34	207	134	9.6	188	6.3
250 UB	25.7	39	248	124	8.0	232	5.0
250 UB	31.4	32	252	146	8.6	234	6.1
250 UB	37.3	27	256	146	10.9	234	6.4
310 UB	32.0	31	298	149	8.0	282	5.5
310 UB	40.4	25	304	165	10.2	284	6.1
310 UB	46.2	22	307	166	11.8	284	6.7
360 UB	44.7	22	352	171	9.7	333	6.9
360 UB	50.7	20	356	171	11.5	333	7.3
360 UB	56.7	18	359	172	13.0	333	8.0
410 UB	53.7	19	403	178	10.9	381	7.6
410 UB	59.7	17	406	178	12.8	381	7.8
460 UB	67.1	15	454	190	12.7	428	8.5
460 UB	74.6	13	457	190	14.5	428	9.1
460 UB	82.1	12	460	191	16.0	428	9.9
530 UB	82.0	12	528	209	13.2	502	9.6
530 UB	92.4	11	533	209	15.6	502	10.2
610 UB	101.0	10	602	228	14.8	572	10.6
610 UB	113.0	9	607	228	17.3	572	11.2
610 UB	125.0	8	612	229	19.6	572	11.9

UNIVERSAL BEAMS LENGTH MATRIX

Size Specification (mm)	9.0m	10.5m	12m	13.5m	15m	16.5m	18m
150 UB	✓	✓	✓	✓	✓	✓	
180 UB	✓	✓	✓	✓	✓	✓	
200 UB	✓	✓	✓	✓	✓	✓	✓
250 UB	✓	✓	✓	✓	✓	✓	✓
310 UB	✓	✓	✓	✓	✓	✓	✓
360 UB	✓	✓	✓	✓	✓	✓	✓
410 UB	✓	✓	✓	✓	✓	✓	✓
460 UB	✓	✓	✓	✓	✓	✓	✓
530 UB	✓	✓	✓	✓	✓	✓	✓
610 UB	✓	✓	✓	✓	✓	✓	✓

NOTE:
- Not all products are available at all locations. Please contact your local Orrcon Steel branch for availability of products.

UNIVERSAL COLUMNS (UC)

Section: Universal Columns (UC)
Standard: AS/NZS 3679.1
Grade: 300MPa
Surface Finish: Mill Finish

Size Specification (mm)	Weight (kg/m)	Metre/ Tonne	Depth of Section	Flange (mm)		Web (mm)	
				Width	Thickness	Depth	Thickness
100 UC	14.8	68	97	99	7.0	83	5.0
150 UC	23.4	43	152	152	6.8	139	6.1
150 UC	30.0	33	158	153	9.4	139	6.6
150 UC	37.2	27	162	154	11.5	139	8.1
200 UC	46.2	22	203	203	11.0	181	7.3
200 UC	52.2	19	206	204	12.5	181	8.0
200 UC	59.5	17	210	205	14.2	181	9.3
250 UC	72.9	14	254	254	14.2	225	8.6
250 UC	89.5	11	260	256	17.3	225	10.5
310 UC	96.8	10	308	305	15.4	277	9.9
310 UC	118.0	8	315	307	18.7	277	11.9
310 UC	137.0	7	321	309	21.7	277	13.8
310 UC	158.0	6	327	311	25.0	277	15.7

UNIVERSAL COLUMNS LENGTH MATRIX

Size Specification (mm)	9.0m	10.5m	12m	13.5m	15m	16.5m	18m
100 UC	✓		✓		✓		
150 UC	✓	✓	✓	✓	✓	✓	
200 UC	✓	✓	✓	✓	✓	✓	✓
250 UC	✓	✓	✓	✓	✓	✓	✓
310 UC	✓	✓	✓	✓	✓	✓	✓

NOTE:
- Not all products are available at all locations. Please contact your local Orrcon Steel branch for availability of products.

PARALLEL FLANGE CHANNELS (PFC)

Section: Parallel Flange Channels (PFC)
Standard: AS/NZS 3679.1
Grade: 300MPa
Surface Finish: Mill Finish

Size Specification (mm)	Weight (kg/m)	Metre/ Tonne	Depth of Section	Flange (mm)		Web (mm)	
				Width	Thickness	Depth/Flange	Thickness
50 x 25*	3.83	261.1	50	25			
75 x 40	5.92	169.0	75	40	6.1	62.8	3.8
100 x 50	8.33	120.0	100	50	6.7	86.6	4.2
125 x 65	11.90	84.0	125	65	7.5	110.0	4.7
150 x 75	17.70	56.5	150	75	9.5	131.0	6.0
180 x 75	20.90	47.6	180	75	11.0	158.0	6.0
200 x 75	22.90	43.7	200	75	12.0	176.0	6.0
230 x 75	25.10	39.8	230	75	12.0	206.0	6.5
250 x 90	35.50	28.2	250	90	15.0	220.0	8.0
300 x 90	40.10	24.9	300	90	16.0	268.0	8.0
380 x 100	55.20	18.1	380	100	17.5	345.0	10.0

PARALLEL FLANGE CHANNELS LENGTH MATRIX

Metric Designation (mm)	9.0m	10.5m	12m	13.5m	15m	16.5m	18m
75 x 40	✓		✓				
100 x 50	✓		✓				
125 x 65	✓		✓				
150 x 75	✓	✓	✓	✓	✓	✓	✓
180 x 75	✓	✓	✓	✓	✓	✓	✓
200 x 75	✓	✓	✓	✓	✓	✓	✓
230 x 75	✓	✓	✓	✓	✓	✓	✓
250 x 90	✓	✓	✓	✓	✓	✓	✓
300 x 90	✓	✓	✓	✓	✓	✓	✓
380 x 100	✓	✓	✓	✓	✓	✓	✓

NOTE:
- *Taper Flange Channel is available subject to enquiry.
- Not all products are available at all locations. Please contact your local Orrcon Steel branch for availability of products.

ANGLES – EQUAL ANGLES (EA)

Section: Equal Angles (EA)
Standard: AS/NZS 3679.1
Grade: 300MPa
Surface Finish: Mill Finish

Nominal Size (mm)	Nominal Thickness (mm)	Weight / Metre (kg/m)	Metres / Tonne (m/t)
20 x 20	3	0.92	1087
25 x 25	3	1.12	893
25 x 25	5	1.65	606
25 x 25	6	2.08	481
30 x 30	3	1.35	741
30 x 30	5	2.01	498
30 x 30	6	2.56	391
40 x 40	3	1.83	546
40 x 40	5	2.73	366
40 x 40	6	3.50	286
45 x 45	3	2.06	485
45 x 45	5	3.10	323
45 x 45	6	3.97	252
50 x 50	3	2.31	433
50 x 50	5	3.48	287
50 x 50	6	4.46	224
50 x 50	8	5.68	176
55 x 55	5	3.84	260
55 x 55	6	4.93	203
65 x 65	5	4.56	219
65 x 65	6	5.87	170
65 x 65	8	7.51	133
65 x 65	10	9.02	111
75 x 75	5	5.27	190
75 x 75	6	6.81	147
75 x 75	8	8.73	115
75 x 75	10	10.50	95
90 x 90	6	8.22	122
90 x 90	8	10.60	94
90 x 90	10	12.70	79
100 x 100	6	9.16	109
100 x 100	8	11.80	85
100 x 100	10	14.20	70
100 x 100	12	17.70	57

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NOTE:
- Minimum order quantities (MOQ's) will apply for non standard lengths.
- Not all products are available at all locations. Please contact your local Orrcon Steel branch for availability of products.

ANGLES – EQUAL ANGLES (EA) CONT...

Section: Equal Angles (EA)
Standard: AS/NZS 3679.1
Grade: 300MPa
Surface Finish: Mill Finish

Nominal Size (mm)	Nominal Thickness (mm)	Weight / Metre (kg/m)	Metres / Tonne (m/t)
125 x 125	8	14.90	67
125 x 125	10	18.00	56
125 x 125	12	22.50	44
125 x 125	16	29.10	34
150 x 150	10	21.90	46
150 x 150	12	27.30	37
150 x 150	16	35.40	28
150 x 150	19	42.10	24
200 x 200	13	40.00	25
200 x 200	16	48.70	21
200 x 200	18	54.40	18
200 x 200	20	60.10	17
200 x 200	26	76.80	13

EQUAL ANGLES LENGTH MATRIX

Nominal Size (mm)	6m	7.5m	9m	12m
20 x 20	✓	✓		
25 x 25	✓	✓		
30 x 30	✓	✓		
40 x 40		✓	✓	
45 x 45		✓	✓	
50 x 50		✓	✓	
55 x 55		✓	✓	
65 x 65		✓	✓	
75 x 75			✓	✓
90 x 90			✓	✓
100 x 100			✓	✓
125 x 125			✓	✓
150 x 150			✓	✓
200 x 200			✓	✓

NOTE :
- Minimum order quantities (MOQ's) will apply for non standard lengths.
- Not all products are available at all locations. Please contact your local Orrcon Steel branch for availability of products.

ANGLES – UNEQUAL ANGLES (UA)

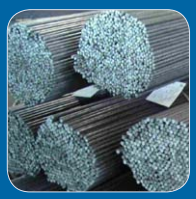
Section: Unequal Angles (UA)
Standard: AS/NZS 3679.1
Grade: 300MPa
Surface Finish: Mill Finish

Nominal Size (mm)	Nominal Thickness (mm)	Weight / Metre (kg/m)	Metres / Tonne (m/t)
65 x 50	5	4.02	249
65 x 50	6	5.16	149
65 x 50	8	6.59	152
75 x 50	5	4.40	228
75 x 50	6	5.66	176
75 x 50	8	7.23	138
100 x 75	6	7.98	125
100 x 75	8	10.30	97
100 x 75	10	12.40	81
125 x 75	6	9.16	109
125 x 75	8	11.80	85
125 x 75	10	14.20	70
125 x 75	12	17.70	57
150 x 90	8	14.30	70
150 x 90	10	17.3	58
150 x 90	12	21.6	46
150 x 90	16	27.9	36
150 x 100	10	18.0	56
150 x 100	12	22.5	44

UNEQUAL ANGLES LENGTH MATRIX

Nominal Size (mm)	9m	12m
65 x 50	✓	✓
75 x 50	✓	✓
100 x 75	✓	✓
125 x 75	✓	✓
150 x 90	✓	✓
150 x 100	✓	✓

NOTE :
- Minimum order quantities (MOQ's) will apply for non standard lengths.
- Not all products are available at all locations. Please contact your local Orrcon Steel branch for availability of products.



MERCHANT BAR – ROUNDS

Section: Merchant Bar - Rounds
Standard: AS/NZS 3679.1
Grade: 300MPa
Surface Finish: Mill Finish

Nominal Size Diameter (mm)	Weight / Metre (kg/m)	Metres / Tonne (m/t)
6	0.23	4348
8	0.41	2439
10	0.63	1587
12	0.91	1099
14	1.24	806
16	1.61	621
18	2.04	490
20	2.52	397
22	3.05	327
24	3.64	275
27	4.61	217
30	5.69	176
33	6.88	145
36	8.19	122
39	9.61	104

NOTE:
- Standard length 6 metres.
- Non standard lengths available subject to enquiry.
- Not all products are available at all locations. Please contact your local Orrcon Steel branch for availability of products.

REINFORCING BAR - DEFORMED BAR

DEFORMED BAR Deformed Reinforcement Bar D500N - AS/NZS 4671

Size (mm)	Weight Per Metre (kg/m)	Metres Per Tonne (m/t)
N12	0.923	1083
N16	1.642	609
N20	2.470	390

NOTE:
- Available in 6, 9 & 12m Lengths subject to minimum order quantities (MOQ's).
- S Grade bar for swimming pools is available upon request. Subject to minimum order quantities (MOQ's).

MERCHANT BAR – SQUARES

Section: Merchant Bar - Squares
Standard: AS/NZS 3679.1
Grade: 300MPa
Surface Finish: Mill Finish

Nominal Size (mm)	Weight / Metre (kg/m)	Metres / Tonne (m/t)
10	0.81	1235
12	1.16	862
16	2.06	485
20	3.22	311
25	5.03	199
32	8.24	121
40	12.87	78

NOTE:
- Standard length 6 metres.
- Non standard lengths available subject to enquiry.
- Not all products are available at all locations. Please contact your local Orrcon Steel branch for availability of products.

MERCHANT BAR – FLATS

Section: Merchant Bar - Flats
Standard: AS/NZS 3679.1
Grade: 300MPa
Surface Finish: Mill Finish

Nominal Size (mm)	Weight / Metre (kg/m)	Metres / Tonne (m/t)
10 x 3*	0.25	4000
13 x 3*	0.31	3226
13 x 5*	0.53	1887
13 x 6*	0.56	1786
16 x 3*	0.36	2778
16 x 5*	0.60	1667
16 x 8	1.03	971
20 x 3	0.48	2083
20 x 5	0.80	1250
20 x 6	0.96	1042
20 x 10	1.61	621
25 x 3	0.60	1667
25 x 5	1.01	990
25 x 6	1.21	826
25 x 8	1.61	621
25 x 10	2.00	500
25 x 12	2.41	415
32 x 3	0.77	1299
32 x 5	1.29	775
32 x 6	1.54	649
32 x 8	2.06	485
32 x 10	2.57	389
32 x 12	3.09	324
40 x 3	0.97	1031
40 x 5	1.61	621
40 x 6	1.93	518
40 x 8	2.57	389
40 x 10	3.22	311
40 x 12	3.86	259
40 x 16	5.15	194
40 x 20	6.44	155
50 x 3	1.21	826
50 x 5	2.01	498
50 x 6	2.42	413
50 x 8	3.22	311
50 x 10	4.02	249
50 x 12	4.83	207
50 x 16	6.44	155
50 x 20	8.05	124
50 x 25	10.06	99
65 x 3	1.57	637

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MERCHANT BAR – FLATS CONT...

Section: Merchant Bar - Flats
Standard: AS/NZS 3679.1
Grade: 300MPa
Surface Finish: Mill Finish

Nominal Size (mm)	Weight / Metre (kg/m)	Metres / Tonne (m/t)
65 x 5	2.62	382
65 x 6	3.14	318
65 x 8	4.18	239
65 x 10	5.23	191
65 x 12	6.28	159
65 x 16	8.37	119
65 x 20	10.46	96
65 x 25	13.08	76
75 x 5	3.02	331
75 x 6	3.62	276
75 x 8	4.83	207
75 x 10	6.03	166
75 x 12	7.24	138
75 x 16	9.66	104
75 x 20	12.07	83
75 x 25	15.09	66
75 x 40	24.14	41
90 x 6	4.35	230
90 x 8	5.79	173
90 x 10	7.24	138
90 x 12	8.69	115
100 x 5	4.03	248
100 x 6	4.83	207
100 x 8	6.44	155
100 x 10	8.05	124
100 x 12	9.66	104
100 x 16	12.92	77
100 x 20	16.10	62
100 x 25	20.12	50
110 x 5	4.42	226
110 x 6	5.31	188
110 x 8	7.08	141
110 x 10	8.85	113
110 x 12	10.62	94
130 x 5	5.23	191
130 x 6	6.28	159
130 x 8	8.37	120
130 x 10	10.46	96
130 x 12	12.55	80
130 x 16	16.74	60

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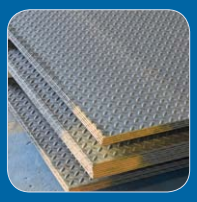
MERCHANT BAR – FLATS CONT...

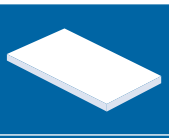
Section: Merchant Bar - Flats
Standard: AS/NZS 3679.1
Grade: 300MPa
Surface Finish: Mill Finish

Nominal Size (mm)	Weight / Metre (kg/m)	Metres / Tonne (m/t)
130 x 20	20.92	48
130 x 25	26.15	38
150 x 5	6.03	166
150 x 6	7.24	138
150 x 8	9.66	104
150 x 10	12.10	83
150 x 12	14.48	69
150 x 16	19.31	52
150 x 20	24.14	41
150 x 25	30.17	33
150 x 50	60.34	17
180 x 5	7.25	138
180 x 6	8.69	115
180 x 8	11.57	86
180 x 10	14.48	69
180 x 12	17.38	58
180 x 16	23.18	43
180 x 20	28.97	35
180 x 25	36.21	28
200 x 6	9.65	104
200 x 8	12.87	78
200 x 10	16.09	62
200 x 12	19.31	52
200 x 16	25.75	39
200 x 20	32.18	31
200 x 25	40.23	25
250 x 6	12.07	83
250 x 10	20.12	50
250 x 12	24.13	41
250 x 16	32.18	31
250 x 20	40.28	25
250 x 25	50.32	20
300 x 6	14.48	69
300 x 10	24.14	41
300 x 12	28.97	35
300 x 16	38.64	26
300 x 20	48.27	21
300 x 25	60.37	17

NOTE:
- * 4 metre lengths only.
- Standard length 6 metres.
- Non standard lengths available subject to enquiry.
- Not all products are available at all locations. Please contact your local Orrcon Steel branch for availability of products.



PLAIN PLATE

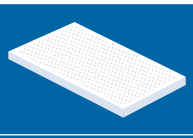


Section: Plain Plate
Standard: AS/NZS 3678 - 250 & 350MPa
Surface Finish: Mill Finish

Plate Thickness (mm)	Weight / Square Metre (kg/m^2)	Weight / Linear Metre of Plate Width (kg)			
		1200mm	1500mm	1800mm	2400mm
3	23.55	28.3	35.3	42.4	56.5
4	31.40	37.7	47.1	56.5	75.4
5	39.25	47.1	58.9	70.7	94.2
6	47.10	56.5	70.7	84.8	113.0
8	62.80	75.4	94.2	113.0	150.7
10	78.50	94.0	118.0	141.0	188.0
12	94.20	113.0	141.0	170.0	226.0
16	125.60	151.0	188.0	226.0	301.0
20	157.00	188.0	236.0	283.0	377.0
22	172.70	207.0	259.0	311.0	415.0
25	196.25	236.0	294.0	353.0	471.0
28	219.80	264.0	330.0	396.0	528.0
32	251.20	301.0	377.0	452.0	603.0
36	282.60	339.0	424.0	509.0	678.0
40	314.00	377.0	471.0	565.0	754.0
45	353.25	424.0	530.0	636.0	848.0
50	392.50	471.0	589.0	707.0	942.0
55	431.75	518.0	648.0	777.0	1036.0
60	471.00	565.0	707.0	848.0	1130.0
65	510.00	612.0	765.0	918.0	1224.0
70	549.50	659.0	824.0	989.0	1319.0
75	588.75	707.0	883.0	1060.0	1413.0
80	628.00	754.0	942.0	1130.0	1507.0
90	706.50	848.0	1060.0	1272.0	1696.0
100	785.00	942.0	1178.0	1413.0	1884.0

NOTE:
- Not all products are available at all locations. Please contact your local Orrcon Steel branch for availability of products.
- Plasma profiling only available at selected QLD branches.

FLOOR (CHECKER) PLATE



Section: Floor (Checker) Plate
Standard: AS/NZS 3678 - 250MPa
Surface Finish: Mill Finish

Plate Thickness (mm)	Weight / Square Metre (kg/m^2)	Weight / Linear Metre of Plate Width (kg)		
		1200mm	1500mm	1800mm
2.1	18.49	22.2		
3.0	25.55	30.7	38.3	
5.0	41.25	49.5	61.9	
6.0	49.10	58.9	73.7	88.4

NOTE:
- Not all products are available at all locations. Please contact your local Orrcon Steel branch for availability of products.

Hot Rolled Structural & Plate

Although all care has been taken in the preparation of information in this brochure, Orrcon Operations Pty Ltd cannot accept liability for errors or omissions, or for the use of this brochure. You should always satisfy yourself as to the accuracy of the information and applicability to your circumstances.

Hot Rolled Structural & Plate
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