

PRODUCT CATALOGUE

February 2015



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.

As a business of BlueScope, 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.

OUR STEEL RANGE

Structural Steel

Orrcon Steel offers a wide range of Electric Resistance Welding (ERW) Carbon Steel Structural Tubulars.

Our Structural Tubular Products are a significant part of our production and 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.

Precision Tube

Orrcon Steel manufactures precision tube at its precision tubing mill in Adelaide. This mill produces square, rectangular, round and oval tube and can also manufacture special shapes subject to enquiry.

Hot Rolled Structural Steel

Orrcon Steel offers a range of hot rolled structural products, including beams, columns, channels, angles and merchant bar (including flats, angles & rounds) as well as a broad range of plate from 3mm up to 200mm.

Pipelines & Infrastructure

Orrcon Steel's Pipeline & Infrastructure Team procures and stocks bare and coated steel pipe for oil and gas, piling and major infrastructure projects. We also offer a range of steel pipe quality assurance and technical services.

Additional Products

- Fencing Products – fence pickets, post caps, wire (barbed, chain and hinged) and punched rail.
- Building Products – roofing, purlins, guttering and welding etc.
- Reinforcing Products – mesh and deformed bar.
- Hot Dip Galvanised Pipe – plain, threaded, shouldered and grooved ends.
- MAXI-TUBE® – a zinc-alloy coated steel section that shows high corrosion resistance in many aggressive environments.
- Sprinkler & Hydrant Fire Pipe – ActivFire® scheme approved.

Specific product brochures for product groups referenced in this catalogue are available for download at: www.orrconsteel.com.au/downloads

The following brands are all registered trademarks of Orrcon Steel. **ALLGAL®**, **SMARTCOTE®**, **PRECISION PRECISELY®**, **Broadspec®**, **ORRFIRE®**, **Orrbore®** & **Orrtrack®**, **MAXI-TUBE®**.

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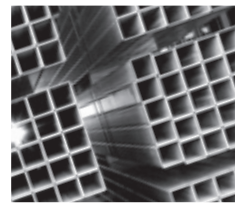
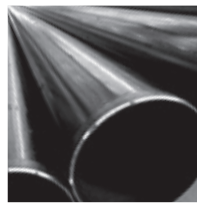
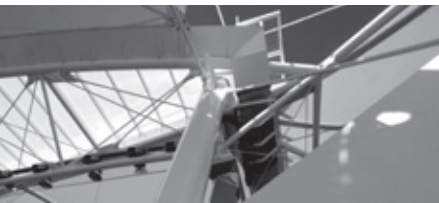
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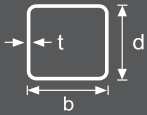
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Structural Tube & Pipe

1.1.1 SQUARE HOLLOW SECTIONS (SHS)

1



Section: Square (SHS)

Standard: AS/NZS 1163

Grade: C350L0

Surface Finish: PTD / MAXI-TUBE® / ALLGAL® / OILED / NOPC*

Size dxb (mm)	Nom. Thick (mm)	Surface Finish			Nom. Linear Mass (Kg/m)	Nom. Mtre/ Tonne	Lengths / Pack	Lengths / MiniPak
		PTD	MAXI-TUBE	ALLGAL				
6500mm Lengths Standard								
20 x 20	1.6	✓	✓	✓	0.87	1146	100	49
25 x 25	1.6	✓	✓	✓	1.12	890	100	49
25 x 25	2.0	✓	✓	✓	1.36	733	100	49
25 x 25	2.5	✓	✓	✓	1.64	610	100	49
25 x 25	3.0	✓	✓	✓	1.89	529	100	49
8000mm Lengths Standard								
30 x 30	1.6	✓	✓	✓	1.38	727	100	49
30 x 30	2.0	✓	✓	✓	1.68	596	100	49
30 x 30	2.5	✓	✓	✓	2.03	492	100	49
30 x 30	3.0	✓	✓	✓	2.36	423	64	36
35 x 35	1.6		✓	✓	1.63	615	100	49
35 x 35	2.0	✓	✓	✓	1.99	502	100	49
35 x 35	2.5	✓	✓	✓	2.42	412	64	30
35 x 35	3.0	✓	✓	✓	2.83	353	64	30
40 x 40	1.6	✓	✓	✓	1.88	533	81	36
40 x 40	2.0	✓	✓	✓	2.31	434	81	36
40 x 40	2.5	✓	✓	✓	2.82	355	64	30
40 x 40	3.0	✓	✓	✓	3.30	303	64	30
40 x 40	4.0	✓	✓	✓	4.09	244	49	25
50 x 50	1.6	✓	✓	✓	2.38	420	64	30
50 x 50	2.0	✓	✓	✓	2.93	341	64	30
50 x 50	2.5	✓	✓	✓	3.60	278	49	25
50 x 50	3.0	✓	✓	✓	4.25	236	49	25
50 x 50	4.0	✓	✓	✓	5.35	187	36	20
50 x 50	5.0	✓	✓	✓	6.39	156	30	16
50 x 50	6.0	✓	✓		7.32	137	25	12
8000mm & 12000mm Lengths Standard								
65 x 65	1.6		✓	✓	3.13	319	49	25
65 x 65	2.0	✓	✓	✓	3.88	258	42	20
65 x 65	2.5	✓	✓	✓	4.78	209	42	20
65 x 65	3.0	✓	✓	✓	5.66	177	36	20
65 x 65	4.0	✓	✓	✓	7.23	138	30	16
65 x 65	5.0	✓	✓	✓	8.75	114	25	12
65 x 65	6.0	✓	✓		10.15	99	20	12

1.1.1 Square Hollow Sections (SHS)

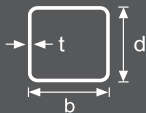
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we'll see it through

1.1.1 SQUARE HOLLOW SECTIONS (SHS) CONT...

1



Section: Square (SHS)

Standard: AS/NZS 1163

Grade: C350L0

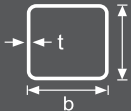
Surface Finish: PTD / MAXI-TUBE® / ALLGAL® / OILED / NOPC*

Size dxb (mm)	Nom. Thick (mm)	Surface Finish			Nom. Linear Mass (Kg/m)	Nom. Mtre/ Tonne	Lengths / Pack 8000mm	Lengths / Pack 12000mm	Lengths / MiniPak 8000 & 12000mm
		PTD	MAXI-TUBE	ALLGAL					
8000mm & 12000mm Lengths Standard									
75 x 75	2.0	✓	✓	✓	4.50	222	30	30	16
75 x 75	2.5	✓	✓	✓	5.56	180	30	30	16
75 x 75	3.0	✓	✓	✓	6.60	152	30	30	16
75 x 75	3.5	✓	✓	✓	7.53	133	25	25	12
75 x 75	4.0	✓	✓	✓	8.49	118	25	25	12
75 x 75	5.0	✓	✓	✓	10.32	97	20	20	9
75 x 75	6.0	✓	✓	✓	12.03	83	16	16	9
89 x 89	2.0		✓	✓	5.38	186	25	9	9
89 x 89	2.5		✓	✓	6.66	150	20	9	9
89 x 89	3.5	✓	✓	✓	9.07	110	20	20	9
89 x 89	5.0	✓	✓	✓	12.51	80	16	16	9
89 x 89	6.0	✓	✓	✓	14.67	68	12	12	6
100 x 100	2.0	✓	✓	✓	6.07	165	20	12	12
100 x 100	2.5	✓	✓	✓	7.53	133	20	12	12
100 x 100	3.0	✓	✓	✓	8.96	112	20	20	9
100 x 100	4.0	✓	✓	✓	11.63	86	16	16	9
100 x 100	5.0	✓	✓	✓	14.24	70	12	12	6
100 x 100	6.0	✓	✓	✓	16.74	60	12	12	6
100 x 100	9.0	✓			23.50	43	9	9	
125 x 125	4.0	✓	✓	✓	14.80	68	12	12	6
125 x 125	5.0	✓	✓	✓	18.17	55	12	12	6
125 x 125	6.0	✓	✓		21.45	47	9	9	4
125 x 125	9.0	✓			30.60	33	8	4	
150 x 150	5.0	✓			22.10	45	9	6	
150 x 150	6.0	✓			26.20	38	6	6	
150 x 150	9.0	✓			37.70	27	6	4	

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1.1.1 SQUARE HOLLOW SECTIONS (SHS) CONT...

1



Section: Square (SHS)

Standard: AS/NZS 1163

Grade: C350L0

Surface Finish: PTD / MAXI-TUBE® / ALLGAL® / OILED / NOPC*

Size dxb (mm)	Nom. Thick (mm)	Surface Finish			Nom. Linear Mass (Kg/m)	Nom. Mtre/ Tonne	Lengths / Pack 8000mm	Lengths / Pack 12000mm	Lengths / MiniPak 8000 & 12000mm
		PTD	MAXI-TUBE	ALLGAL					
200 x 200	5.0	✓			29.90	33	6	4	
200 x 200	6.0	✓			35.60	28	4	4	
200 x 200	9.0	✓			51.80	19	4	2	
200 x 200	12.5	✓			69.40	14	2	2	
200 x 200	16.0	✓			85.50	12	1	1	
250 x 250	6.0	✓			45.00	22	4	2	
250 x 250	9.0	✓			65.90	15	2	2	
250 x 250	12.5	✓			89.00	11	1	1	
250 x 250	16.0	✓			111.00	9	1	1	
300 x 300	6.0	✓			54.42	18	1	1	
300 x 300	9.0	✓			80.05	12	1	1	
300 x 300	12.5	✓			109.00	9	1	1	
300 x 300	16.0	✓			136.00	7	1	1	
350 x 350	9.0	✓			94.18	11	1	1	
350 x 350	12.5	✓			128.00	8	1	1	
350 x 350	16.0	✓			161.00	6	1	1	
400 x 400	9.0	✓			108.31	9	1	1	
400 x 400	12.5	✓			148.00	7	1	1	
400 x 400	16.0	✓			186.00	5	1	1	

NOTE:

- » Non standard sizes, surface finishes and lengths available subject to enquiry. Minimum order quantities (MOQ's) apply.
- » C450L0 grade available for some sizes, subject to enquiry. Minimum Order Quantities (MOQ's) apply.
- » NOPC & OILED available subject to enquiry.
- » Please contact your local Orrcon Steel Distribution Centre for MAXI-TUBE® products.

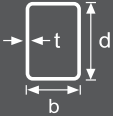
* Refer to Glossary of Terms

1.1.1 Square Hollow Sections (SHS)



1.1.2 RECTANGULAR HOLLOW SECTIONS (RHS)

1



Section: Rectangular (RHS)

Standard: AS/NZS 1163

Grade: C350L0

Surface Finish: PTD / MAXI-TUBE® / ALLGAL® / OILED / NOPC*

Size dxb (mm)	Nom. Thick (mm)	Surface Finish			Nom. Linear Mass (Kg/m)	Nom. Mtre/ Tonne	Lengths / Pack	Lengths / MiniPak
		PTD	MAXI-TUBE	ALLGAL				
8000mm Lengths Standard								
50 x 25	1.6	✓	✓	✓	1.75	571	96	48
50 x 25	2.0	✓	✓	✓	2.15	465	96	48
50 x 25	2.5	✓	✓	✓	2.62	382	72	36
50 x 25	3.0	✓	✓	✓	3.07	326	60	30
65 x 35	1.6		✓	✓	2.38	420	54	24
65 x 35	2.0	✓	✓	✓	2.93	341	54	24
65 x 35	2.5	✓	✓	✓	3.60	278	54	24
65 x 35	3.0	✓	✓	✓	4.25	236	45	21
65 x 35	4.0	✓	✓		5.35	187	45	21
75 x 25	1.6		✓	✓	2.38	420	65	32
75 x 25	2.0	✓	✓	✓	2.93	341	65	32
75 x 25	2.5	✓	✓	✓	3.60	278	48	24
75 x 50	1.6		✓	✓	3.01	332	42	20
75 x 50	2.0	✓	✓	✓	3.72	269	42	20
75 x 50	2.3	✓	✓		4.24	236	42	20
75 x 50	2.5	✓	✓	✓	4.58	218	42	20
75 x 50	3.0	✓	✓	✓	5.42	184	35	18
75 x 50	4.0	✓	✓	✓	6.92	145	28	12
75 x 50	5.0	✓	✓	✓	8.35	120	24	12
75 x 50	6.0	✓	✓		9.67	103	20	12
100 x 50	1.6		✓	✓	3.64	275	32	15
100 x 50	2.0	✓	✓	✓	4.50	222	32	15
100 x 50	2.5	✓	✓	✓	5.56	180	32	15
100 x 50	3.0	✓	✓	✓	6.60	152	32	15
100 x 50	3.5	✓	✓	✓	7.53	133	24	12
100 x 50	4.0	✓	✓	✓	8.49	118	24	12
100 x 50	5.0	✓	✓	✓	10.32	97	18	9
100 x 50	6.0	✓	✓		12.03	83	15	9

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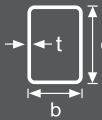
NOTE:

- » Some 5.0mm ALLGAL® sections available ex-rolling. Minimum order quantities (MOQ's) apply.
- » Non standard sizes, surface finishes and lengths available subject to enquiry. Minimum order quantities (MOQ's) apply.
- » C450L0 grade available for some sizes, subject to enquiry. Minimum order quantities (MOQ's) apply.
- » NOPC & OILED available subject to enquiry.
- » Please contact your local Orrcon Steel Distribution Centre for MAXI-TUBE® products.

* Refer to Glossary of Terms

1.1.2 RECTANGULAR HOLLOW SECTIONS (RHS) CONT...

1



Section: Rectangular (RHS)

Standard: AS/NZS 1163

Grade: C350L0

Surface Finish: PTD / MAXI-TUBE® / ALLGAL® / OILED / NOPC*

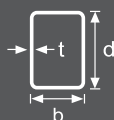
Size dxb (mm)	Nom. Thick (mm)	Surface Finish			Nom. Linear Mass (Kg/m)	Nom. Mtre/ Tonne	Lengths / Pack 8000mm	Lengths / Pack 12000mm	Lengths / MiniPak 8000 & 12000mm
		PTD	MAXI-TUBE	ALLGAL					
8000mm & 12000mm Lengths Standard									
125 x 75	2.5	✓	✓	✓	7.53	133	20	20	12
125 x 75	3.0	✓	✓	✓	8.96	112	20	20	12
125 x 75	4.0	✓	✓	✓	11.63	86	15	15	8
125 x 75	5.0	✓	✓	✓	14.24	70	15	15	8
125 x 75	6.0	✓	✓		16.74	60	12	12	6
150 x 50	2.0		✓	✓	6.07	165	21	21	15
150 x 50	2.5	✓	✓	✓	7.53	133	21	21	12
150 x 50	3.0	✓	✓	✓	8.96	112	21	21	12
150 x 50	4.0	✓	✓	✓	11.63	86	15	15	8
150 x 50	5.0	✓	✓	✓	14.24	70	15	15	8
150 x 50	6.0	✓	✓	✓	16.74	60	15	15	8
150 x 100	3.0	✓	✓	✓	11.31	88	12	12	8
150 x 100	4.0	✓	✓	✓	14.77	68	12	12	8
150 x 100	5.0	✓	✓	✓	18.17	55	12	12	8
150 x 100	6.0	✓	✓		21.45	47	9	9	4
150 x 100	9.0	✓			30.60	33	6	4	4
200 x 100	4.0	✓			17.90	56	8	6	
200 x 100	5.0	✓			22.10	45	8	6	
200 x 100	6.0	✓			26.20	38	8	4	
200 x 100	9.0	✓			37.70	27	6	4	
250 x 150	5.0	✓			29.94	33	6	4	
250 x 150	6.0	✓			35.58	28	4	4	
250 x 150	9.0	✓			51.79	19	4	2	
250 x 150	12.5	✓			69.40	14	2	2	
250 x 150	16.0	✓			85.50	12	1	1	
300 x 200	6.0	✓			45.00	22		2	
300 x 200	9.0	✓			65.92	15		2	
300 x 200	12.5	✓			89.00	11		1	
300 x 200	16.0	✓			111.00	9		1	
350 x 250	12.5	✓			109.00	9		1	
350 x 250	16.0	✓			136.00	7		1	
400 x 200	6.0	✓			54.42	18	1		
400 x 200	9.0	✓			80.05	12	1		
400 x 200	12.5	✓			109.00	9		1	
400 x 300	9.0	✓			94.18	11		1	
400 x 300	12.5	✓			128.00	8		1	
400 x 300	16.0	✓			161.00	6		1	

Refer to notes on page 6

1.1.2 Rectangular Hollow Sections (RHS)

1.1.3 RECTANGULAR HOLLOW SECTIONS (RHS) - NON STANDARD

1



Section: Rectangular (RHS)

Standard: AS/NZS 1163

Grade: C350L0

Surface Finish: PTD / MAXI-TUBE® / ALLGAL® / OILED / NOPC*

Size dx b (mm)	Nom. Thick (mm)	Surface Finish			Nom. Linear Mass [Kg/m]	Nom. Mtre/ Tonne	Lengths / Pack	Lengths / MiniPak
		PTD	MAXI-TUBE	ALLGAL				
8000mm Lengths Standard								
38 x 25	1.6	✓	✓	✓	1.45	689	72	36
38 x 25	2.0		✓	✓	1.77	564	72	36
38 x 25	2.5	✓	✓		2.15	465	72	
50 x 20	1.6	✓	✓	✓	1.63	615	96	
50 x 20	2.0	✓	✓	✓	1.99	502	96	
50 x 20	2.5	✓	✓		2.42	412	72	
50 x 20	3.0	✓	✓	✓	2.83	353	72	
50 x 30	2.0		✓	✓	2.31	434	96	
76 x 38	1.6		✓	✓	2.73	366	50	
76 x 38	2.0	✓	✓		3.37	296	56	
76 x 38	2.5	✓	✓	✓	4.15	241	45	
76 x 38	3.0	✓	✓		4.90	204	40	20
76 x 38	4.0	✓	✓		6.23	161	32	
102 x 76	3.5	✓	✓	✓	9.07	110	20	12
102 x 76	5.0	✓	✓		12.51	80	15	9
102 x 76	6.0	✓	✓		14.67	68	12	6
127 x 51	3.0	✓	✓		7.92	126	18	
127 x 51	4.0	✓	✓		10.24	98	12	
127 x 51	5.0	✓	✓	✓	12.51	80	12	6
127 x 51	6.0	✓	✓		14.67	68	12	6
152 x 76	5.0	✓	✓		16.44	61	12	6
152 x 76	6.0	✓	✓		19.38	52	9	6
185 x 65*	3.0	✓	✓	✓	11.31	88	10	
185 x 65*	4.0	✓	✓	✓	14.77	68	10	
185 x 65*	5.0	✓	✓	✓	18.17	55	10	
185 x 65*	6.0	✓	✓		21.45	47	10	

NOTE:

- » Minimum order quantities (MOQ's) apply.
- » C450L0 grade available for some sizes subject to enquiry. Minimum order quantities (MOQ's) apply.
- » NOPC & OILED available subject to enquiry.
- » Please contact your local Orrcon Steel Distribution Centre for MAXI-TUBE® products.

+ Please contact your local Orrcon Steel Distribution Centre

* Refer to Glossary of Terms

1.1.4 CIRCULAR HOLLOW SECTIONS (CHS)

1



Section: Pipe (CHS)

Standard : AS/NZS 1163 & AS 1074

Grade: C250L0, C350L0

Surface Finish: PTD / MAXI-TUBE® / ALLGAL® / OILED / NOPC*

NB (mm)	OD (mm)	Nom. Thick (mm)	Class AS1074	Grade		Surface Finish			Nom. Linear Mass (Kg/m)	Nom. Mtre / Tonne	Lengths / Pack	Lengths / MiniPak
				C250L0	C350L0	PTD	MAXI- TUBE	ALLGAL				
6500mm Lengths Standard												
	25.4	2.0	XL		❖		✓	✓	1.15	866	91	
20	26.9	2.6	M	✓		✓		✓	1.56	642	127	61
25	33.7	2.0	XL	✓	❖	✓		✓	1.56	640	91	37
25	33.7	2.6	L	✓	❖	✓		✓	1.99	501	91	37
25	33.7	3.2	M	✓		✓	✓	✓	2.41	415	91	37
25	33.7	4.0	H	✓		✓	✓	✓	2.93	341	91	37
32	42.4	2.0	XL	✓	❖	✓	✓	✓	1.99	502	61	37
32	42.4	2.6	L	✓	❖			✓	2.55	392	61	37
32	42.4	3.2	M	✓		✓	✓	✓	3.09	323	61	37
32	42.4	4.0	H	✓			✓	✓	3.79	264	61	37
40	48.3	2.3	XL		❖	✓		✓	2.61	383	61	37
40	48.3	2.9	L	✓	❖	✓	✓	✓	3.25	308	61	37
40	48.3	3.2	M	✓		✓	✓	✓	3.56	281	61	37
40	48.3	4.0	H	✓	❖	✓	✓	✓	4.37	229	61	37
50	60.3	2.3	XL	✓	❖	✓		✓	3.29	304	37	19
50	60.3	2.9	L	✓	❖	✓	✓	✓	4.11	244	37	19
50	60.3	3.6	M	✓	❖	✓	✓	✓	5.03	199	37	19
50	60.3	4.5	H	✓	❖	✓	✓	✓	6.19	161	37	19
65	76.1	2.3	XL	✓	❖	✓		✓	4.19	239	37	19
65	76.1	3.2	L	✓	❖	✓	✓	✓	5.75	174	37	19
65	76.1	3.6	M	✓	❖	✓	✓	✓	6.44	155	37	19
65	76.1	4.5	H	✓	❖	✓	✓		7.95	126	37	19
80	88.9	2.6	XL		❖	✓			5.53	181	19	10
80	88.9	3.2	L	✓	❖	✓	✓	✓	6.76	148	19	10
80	88.9	4.0	M	✓	❖	✓	✓	✓	8.38	119	19	10
80	88.9	5.0	H	✓	❖	✓	✓	✓	10.35	97	19	10
90	101.6	2.6	XL		❖	✓		✓	6.35	158	19	10
90	101.6	3.2	L		❖	✓	✓	✓	7.77	129	19	10
90	101.6	4.0	M	✓	❖	✓	✓		9.63	104	19	10
90	101.6	5.0	H	✓	❖	✓	✓		11.91	84	19	10
100	114.3	3.2	XL		❖	✓	✓	✓	8.77	114	19	10
100	114.3	3.6	L	✓	❖	✓	✓	✓	9.83	102	19	10
100	114.3	4.5	M	✓	❖	✓	✓	✓	12.19	82	19	10
100	114.3	5.4	H	✓	❖	✓			14.50	69	19	10

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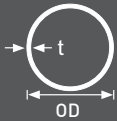
1.1.4 Circular Hollow Sections (CHS)



we'll see it through

1.1.4 CIRCULAR HOLLOW SECTIONS (CHS) CONT...

1



Section: Pipe (CHS)

Standard: AS/NZS 1163 & AS 1074

Grade: C250L0, C350L0

Surface Finish: PTD / MAXI-TUBE® / ALLGAL® / OILED / NOPC*

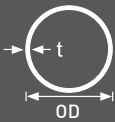
NB (mm)	OD (mm)	Nom. Thick (mm)	Class AS1074	Grade		Surface Finish			Nom. Linear Mass (Kg/m)	Nom. Mtre/ Tonne	Lengths / Pack	Lengths / MiniPak
				C250L0	C350L0	PTD	MAXI-TUBE	ALLGAL				
6500mm Lengths Standard												
125	139.7	3.0	XL	✓	❖	✓	✓		10.11	99	13	7
125	139.7	3.5	L		❖	✓	✓	✓	11.76	85	13	7
125	139.7	5.0	M	✓	❖	✓	✓	✓	16.61	60	13	7
125	139.7	5.4	H	✓	❖	✓			17.89	56	13	7
150	165.1	3.0	XL		❖	✓	✓	✓	11.99	83	10	7
150	165.1	3.5	L		❖	✓	✓	✓	13.95	72	10	7
150	165.1	5.0	M	✓	❖	✓	✓	✓	19.74	51	10	7
150	165.1	5.4	H	✓		✓			21.27	47	10	7

NOTE:

- » (❖) Denotes tensile strength exceeds AS 1074 specification.
- » Non standard sizes, surface finishes and lengths available subject to enquiry. Minimum order quantities (MOQ's) apply.
- » NOPC & OILED available subject to enquiry.
- » Pipe to be used for low pressure water/gas reticulation is manufactured to meet AS 1074.
- » Please contact your local Orrcon Steel Distribution Centre for MAXI-TUBE® products.

* Refer to Glossary of Terms

1.1.5 BROADSPEC® - STRUCTURAL & PRESSURE PIPE



Section: Pipe (CHS)

Standard: AS/NZS1163 / API 5L

Grade: C350L0, X42 / X52

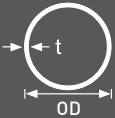
NB (mm)	OD (mm)	Nom. Thick (mm)	MDMT* °C	Pressure Rating Ambient MPa	Nom. Linear Mass(Kg/m)	Nom. Mtre/ Tonne
12000mm Lengths Standard						
80	88.9	5.5	-40	20.9	11.31	88
80	88.9	7.6	-30	29.3	15.24	66
100	114.3	4.8	-50	13.8	12.96	77
100	114.3	6.0	-40	17.5	16.02	62
100	114.3	8.6	-30	25.6	22.42	45
125	141.3	4.8	-50	11.1	16.16	62
125	141.3	6.6	-40	15.4	21.92	46
125	141.3	9.5	-20	22.7	30.88	32

Table continues over page

1.1.5 BROADSPEC® - STRUCTURAL & PRESSURE PIPE CONT...

1

1.1.5 Broadspec® - Structural & Pressure Pipe



Section: Pipe (CHS)
 Standard: AS/NZS1163 / API 5L
 Grade: C350L0, X42 / X52

NB (mm)	OD (mm)	Nom. Thick (mm)	MDMT* °C	Pressure Rating Ambient MPa	Nom. Linear Mass(Kg/m)	Nom. Mtre/Tonne
150	168.3	4.8	-50	9.3	19.35	52
150	168.3	6.4	-40	12.5	25.55	39
150	168.3	7.1	-30	13.9	28.22	35
150	168.3	11.0	-20	22.0	42.67	23
12000mm Lengths Standard						
200	219.1	4.8	-50	7.1	25.37	39
200	219.1	6.4	-40	9.5	33.57	30
200	219.1	8.2	-30	12.3	42.65	23
200	219.1	12.7	-20	19.4	64.64	15
250	273.1	4.8	-50	5.7	31.76	31
250	273.1	6.4	-40	7.6	42.09	24
250	273.1	9.3	-20	11.1	60.50	17
250	273.1	12.7	-20	15.4	81.55	12
300	323.9	4.8	-50	4.8	37.77	26
300	323.9	6.4	-40	6.4	50.11	20
300	323.9	9.5	-20	9.5	73.65	14
300	323.9	12.7	-20	12.9	97.41	10
350	355.6	4.8	-50	4.3	41.50	24
350	355.6	6.4	-40	5.8	55.11	18
350	355.6	9.5	-20	8.7	81.08	12
350	355.6	12.7	-20	11.7	107.39	9
400	406.4	4.8	-50	3.8	47.50	21
400	406.4	6.4	-40	5.1	63.13	16
400	406.4	9.5	-20	7.6	92.98	11
400	406.4	12.7	-20	10.2	123.30	8
450	457	4.8	-50	3.4	53.53	19
450	457	6.4	-40	4.5	71.12	14
450	457	9.5	-20	6.7	104.84	10
450	457	12.7	-20	9.0	139.15	7
500	508	6.4	-40	4.0	79.16	13
500	508	9.5	-20	6.0	116.78	9
500	508	12.7	-20	8.1	155.12	6
600	610	6.4	-40	3.4	95.26	10
600	610	9.5	-20	5.0	140.68	7
600	610	12.7	-20	6.7	186.06	5

Notes over page

1.1.5 BROADSPEC® - STRUCTURAL & PRESSURE PIPE CONT...

1

NOTE:

- » Stock lengths are 12 metres. Non standard stock lengths are available from 9 to 18 metres.
- » A cut to length service is available on request.
- » API bevel ends are standard for stock lengths only.
- » Non standard sizes, surface finishes and lengths available subject to enquiry. Minimum order quantities (MOQ's) apply.
- » The values and calculations in the table above are based on AS4041.
- » Project supply subject to enquiry.
- » Surface finish is NOPC or Mill Varnish.
- » Product specification level (PSL1 or PSL2) subject to enquiry.
- » Contact your Orrcon Steel Representative for the correct quantity of lengths per pack.

* Refer to Glossary of Terms

1.1.6 MAXI-TUBE®

MAXI-TUBE® is an innovative zinc-alloy coated steel section with a ZM275 coating that shows high corrosion resistance in many aggressive environments with good galvanic protection.

The corrosion resistant alloy coating of MAXI-TUBE® is comprised of zinc (Zn), aluminium (Al), and magnesium (Mg) and is compliant to AS 1397. It provides maximum durability, maximum efficiency and maximum versatility.

BENEFITS OF MAXI-TUBE®

- » Slower corrosion rate than zinc-coated steel.*
- » Suited for coastal, industrial, intensive farming, food processing and infrastructure applications.
- » Has good paint and powder coat adhesion, plus displays a high quality surface finish.
- » Lead times may be reduced by eliminating steps from traditional coating processes.
- » Achieves life cycle and maintenance cost benefits.
- » Available with a defined warranty.
- » With a coating 2.5 times* harder than galvanised steel, MAXI-TUBE® delivers superior scratch resistance.
- » Aesthetically pleasing mill finish with zero spangle and a smooth satin coating.
- » Demonstrates good weldability for ease of fabrication.

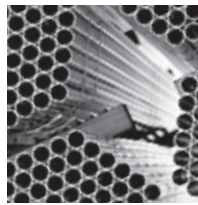
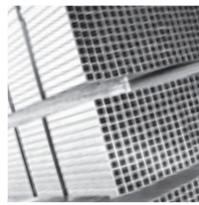
* Based on testing conducted by Nisshin Steel Co. Ltd

MAXI-TUBE® STRUCTURAL PRODUCT RANGE – COMPLIES WITH AS/NZS 1163 C350L0

SHS	RHS	CHS	YARD RAIL
20 x 20 TO 125 x 125	50 x 25 TO 150 x 100	20 NB TO 150 NB	52 x 25 TO 124 x 42

NOTE:

- » Products available in all increments between 1.6mm to 6.0mm wall thickness.
- » Minimum order quantities and lead times may apply.
- » MAXI-TUBE® is subject to enquiry for Precision Sections.

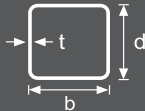


Precision Tube

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1.2.1 PRECISION SQUARE TUBE



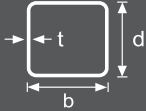
Section: Square Tube
 Standard: AS 1450*
 Surface Finish: SEMB / MSGB / MSBL**

Size dxb (mm)	Gauge (mm)	Surface Finish			Nom. Linear Mass (Kg/m)	Lengths Per Pack
		SEMB	MSGB	MSBL		
6100mm & 7320mm Lengths Standard						
12.7 x 12.7	1.2		✓		0.404	400
12.7 x 12.7	1.6	✓			0.506	400
16 x 16	0.9		✓		0.410	256
16 x 16	1.0		✓		0.451	256
16 x 16	1.2		✓		0.529	256
16 x 16	1.6	✓			0.672	256
19 x 19	0.9		✓		0.495	169
19 x 19	1.2	✓			0.642	169
19 x 19	1.4	✓			0.734	169
19 x 19	1.6	✓	✓	✓	0.822	169
19 x 19	2.0	✓			0.987	169
19 x 19	2.5			✓	1.169	169
20 x 20	1.2		✓		0.679	144
20 x 20	1.6	✓	✓		0.873	144
22.2 x 22.2	0.9	✓	✓		0.586	121
22.2 x 22.2	1.2	✓	✓		0.762	121
22.2 x 22.2	1.4	✓			0.875	121
22.2 x 22.2	1.6	✓	✓		0.983	121
25.4 x 25.4	1.2	✓	✓		0.883	100
25.4 x 25.4	1.4	✓			1.015	100
25.4 x 25.4	1.5		✓		1.080	100
25.4 x 25.4	1.6		✓	✓	1.144	100
25.4 x 25.4	2.0			✓	1.389	100
25.4 x 25.4	2.5			✓	1.671	100
25 x 25	1.2	✓			0.868	100
25 x 25	1.4	✓			0.998	100
25 x 25	1.6	✓	✓		1.124	100
30 x 30	1.2	✓	✓		1.056	64
30 x 30	1.5		✓		1.297	64
30 x 30	1.6		✓		1.375	64
31.8 x 31.8	1.2	✓	✓		1.124	64
31.8 x 31.8	1.6		✓	✓	1.465	64
31.8 x 31.8	2.0			✓	1.791	64
31.8 x 31.8	2.5			✓	2.174	64

Table continues over page

1.2.1 PRECISION SQUARE TUBE CONT...

1



Section: Square Tube
 Standard: AS 1450*
 Surface Finish: SEMB / MSGB / MSBL**

Size dxb (mm)	Gauge (mm)	Surface Finish			Nom. Linear Mass (Kg/m)	Lengths Per Pack
		SEMB	MSGB	MSBL		
6100mm & 7320mm Lengths Standard						
35 x 35	1.2	✓	✓		1.244	49
35 x 35	1.5		✓		1.532	49
35 x 35	1.6			✓	1.626	49
35 x 35	2.0			✓	1.992	49
38 x 38	1.6	✓	✓	✓	1.777	49
38 x 38	2.0			✓	2.180	49
38 x 38	2.5			✓	2.660	49
40 x 40	1.2		✓		1.433	32
40 x 40	1.5		✓		1.768	32
40 x 40	1.6		✓	✓	1.877	32
40 x 40	2.0		✓		2.306	32
40 x 40	2.5			✓	2.817	32
41 x 41	2.0		✓		2.368	36
45 x 45	1.6		✓	✓	2.129	36
45 x 45	2.5			✓	3.210	36
50 x 50	1.2		✓		1.810	25
50 x 50	1.5		✓		2.239	25
50 x 50	1.6	✓	✓		2.380	25
50 x 50	2.0		✓	✓	2.934	25
50 x 50	2.5			✓	3.602	25
50 x 50	3.0			✓	4.245	25
60 x 60	1.6	✓	✓		2.882	12
65 x 65	1.5		✓		2.945	16
65 x 65	1.6		✓		3.133	16
65 x 65	2.0			✓	3.876	16
65 x 65	2.5		✓		4.780	16

NOTE:

- » Non standard lengths available subject to enquiry.
- » Other coatings available include - HTGB, HRSB, HRGB, HRPO, GALVANISED**. These sections may not be available in these coatings. Please contact Orrcon Steel for availability.
- » The products listed are indicative of the range however you need to check with your local Orrcon Steel representative for availability & minimum order quantities (MOQ's).
- » MAXI-TUBE® is subject to enquiry for Precision Sections.

* Mechanical Properties - refer to section 1.7.3 - Standards - Precision Tube.

** Refer to Glossary of Terms

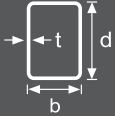
1.2.1 Precision Square Tube



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1.2.2 PRECISION RECTANGULAR TUBE

1



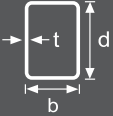
Section: Rectangular Tube
 Standard : AS 1450*
 Surface Finish: SEMB / MSGB / MSBL**

Size dx b (mm)	Gauge (mm)	Surface Finish			Nom. Linear Mass (Kg/m)	Lengths Per Pack
		SEMB	MSGB	MSBL		
6100mm & 7320mm Lengths Standard						
12 x 9	1.2	✓			0.395	560
25.4 x 12.7	0.9		✓		0.497	200
25.4 x 12.7	1.0		✓		0.547	200
25.4 x 12.7	1.2	✓			0.643	200
25.4 x 12.7	1.6		✓		0.825	200
30 x 15	0.9		✓		0.594	128
31.8 x 12.7	1.6	✓			0.986	160
35 x 19	1.0		✓	✓	0.796	96
35 x 19	1.2	✓			0.943	96
35 x 19	1.6	✓	✓	✓	1.224	96
35 x 19	2.0			✓	1.489	96
38 x 25.4	1.2		✓		1.120	70
38 x 25.4	1.5		✓		1.377	70
38 x 25.4	1.6		✓	✓	1.460	70
50 x 10	0.9		✓		0.806	85
50 x 10	1.2	✓			1.056	85
50 x 10	1.6	✓			1.375	85
50 x 20	1.6	✓			1.626	60
50 x 20	2.0			✓	1.992	60
50 x 25	0.9		✓		1.018	50
50 x 25	1.2		✓		1.339	50
50 x 25	1.6	✓	✓		1.752	50
50 x 25	2.0			✓	2.149	50
50 x 25	2.5			✓	2.621	50
50 x 40	1.6	✓			2.129	30
51 x 31.8	1.6	✓			1.948	40
51 x 31.8	2.0	✓			2.393	40
57 x 35	1.6		✓	✓	2.179	28
57 x 35	2.0			✓	2.682	28
57 x 35	2.5			✓	3.288	28
60 x 30	2.5			✓	3.210	32
60 x 40	1.6	✓			2.380	24
60 x 40	3.0			✓	4.245	24
63.5 x 38	1.6		✓		2.418	28
63.5 x 38	2.0			✓	2.981	28

Table continues over page

1.2.2 PRECISION RECTANGULAR TUBE CONT...

1



Section: Rectangular Tube
 Standard : AS 1450*
 Surface Finish: SEMB / MSGB / MSBL**

Size dxb (mm)	Gauge (mm)	Surface Finish			Nom. Linear Mass (Kg/m)	Lengths Per Pack
		SEMB	MSGB	MSBL		
6100mm & 7320mm Lengths Standard						
67 x 29	2.0	✓			2.808	36
70 x 34	2.3	✓			3.482	28
70 x 50	1.2		✓		2.186	20
75 x 25	2.0			✓	2.934	30
76 x 38	1.2		✓		2.073	18
76 x 38	1.6		✓		2.732	18
76 x 38	2.0		✓		3.373	18
80 x 40	1.6		✓	✓	2.882	18
80 x 40	2.5			✓	4.387	18
90 x 40	2.5			✓	4.780	18

NOTE:

- » Non standard lengths available subject to enquiry.
- » Other coatings available include - HTGB, HRSB, HRGB, HRPO, GALVANISED**. These sections may not be available in these coatings. Please contact Orrcon Steel for availability.
- » The products listed are indicative of the range however you need to check with your local Orrcon Steel representative for availability & minimum order quantities (MOQ's).
- » MAXI-TUBE® is subject to enquiry for Precision Sections.

*Mechanical properties - refer to section 1.7.3 - Standards - Precision Tube.

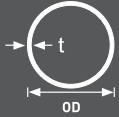
** Refer to Glossary of Terms

1.2.2 Precision Rectangular Tube



1.2.3 PRECISION ROUND TUBE

1



Section: Round Tube

Standard : AS 1450*

Surface Finish: SEMB / MSGB / MSBR / MSBL / ACMS**

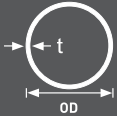
Size OD	Gauge (mm)	Surface Finish					Nom. Linear Mass (Kg/m)	Lengths Per Pack
		SEMB	MSGB	MSBR	MSBL	ACMS		
6100mm & 7320mm Lengths Standard								
12.7	0.9		✓	✓			0.262	270
12.7	1.2	✓					0.340	270
12.7	1.6	✓					0.438	270
16.0	0.9			✓			0.335	217
16.0	1.2	✓	✓				0.438	217
16.0	1.6	✓	✓				0.568	217
16.0	2.0	✓					0.691	217
19.0	0.9		✓	✓			0.402	169
19.0	1.2	✓	✓			✓	0.527	169
19.0	1.4	✓					0.608	169
19.0	1.6	✓	✓		✓		0.687	169
19.0	2.0	✓			✓		0.838	169
19.0	2.5		✓				1.017	169
22.2	0.9	✓	✓				0.473	127
22.2	1.2	✓					0.621	127
22.2	1.4	✓					0.718	127
22.2	1.6	✓					0.813	127
25.4	0.9		✓				0.544	91
25.4	1.0						0.601	91
25.4	1.2	✓		✓			0.716	91
25.4	1.4	✓					0.829	91
25.4	1.6	✓	✓		✓		0.939	91
25.4	2.0	✓	✓		✓		1.154	91
28.6	1.2	✓	✓				0.811	61
28.6	1.6	✓	✓				1.065	61
31.8	1.2	✓					0.906	61
31.8	1.6	✓	✓		✓	✓	1.192	61
31.8	2.0	✓			✓		1.470	61
35.0	1.2	✓	✓			✓	1.000	61
35.0	1.6	✓					1.318	61
38.0	1.2		✓			✓	1.089	61
38.0	2.0	✓			✓		1.776	37
38.0	2.5				✓		2.189	37
38.0	3.0				✓		2.589	37
41.3	1.2	✓	✓				1.187	37
41.3	1.6	✓	✓			✓	1.566	37

Table continues over page

1.2.3 PRECISION ROUND TUBE CONT...

1

1.2.3 Precision Round Tube



Section: Round Tube
Standard : AS 1450*
Surface Finish: SEMB / MSGB / MSBR / MSBL / ACMS**

Size OD	Gauge (mm)	Surface Finish					Nom. Linear Mass (Kg/m)	Lengths Per Pack
		SEMB	MSGB	MSBR	MSBL	ACMS		
6100mm & 7320mm Lengths Standard								
44.5	1.2	✓	✓			✓	1.281	68
44.5	1.6	✓	✓			✓	1.693	68
44.5	2.0				✓		2.097	37
44.5	2.5				✓		2.589	37
47.6	1.2	✓					1.373	37
47.6	1.6	✓				✓	1.815	19
47.6	2.0	✓					2.249	19
51.0	1.2	✓	✓			✓	1.474	19
51.0	1.4	✓					1.712	53
51.0	1.6	✓	✓		✓	✓	1.949	19
51.0	2.0	✓	✓				2.417	19
51.0	2.5		✓		✓		2.990	19
54.0	1.2		✓				1.562	19
54.0	1.6	✓				✓	2.068	19
57.0	1.2	✓	✓				1.651	19
57.0	1.6	✓	✓			✓	2.186	19
57.0	2.0	✓			✓	✓	2.713	19
60.3	1.6		✓			✓	2.316	19
63.5	1.6	✓				✓	2.442	19
63.5	2.0	✓			✓	✓	3.033	19
70.0	1.6	✓				✓	2.698	19
70.0	2.0	✓				✓	3.354	7
76.2	1.6	✓				✓	2.944	19
76.2	2.0					✓	3.660	19
85.0	1.6					✓	3.290	7
90.0	1.6	✓				✓	3.488	7
101.6	1.6	✓				✓	3.950	7

NOTE:

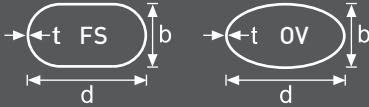
- » Non standard lengths available subject to enquiry.
- » Other coatings available include - HTGB, HRSB, HRGB, HRPO, GALVANISED**. These sections may not be available in these coatings. Please contact Orrcon Steel for availability.
- » The products listed are indicative of the range however you need to check with your local Orrcon Steel representative for availability & minimum order quantities (MOQ's).
- » MAXI-TUBE® is subject to enquiry for Precision Sections.

* Mechanical properties - refer to section 1.7.3 - Standards - Precision Tube.

** Refer to Glossary of Terms

1.2.4 PRECISION OVAL TUBE

1



Section: Oval Tube
Standard : AS 1450*
Surface Finish: SEMB / MSGB / MSBR**

Size dxb (mm)	Flat / Oval Side	Gauge (mm)	Surface Finish			Nom. Linear Mass (Kg/m)	Lengths Per Pack
			SEMB	MSGB	MSBR		
6100mm & 7320mm Lengths Standard							
30 x 15	OV	2.0	✓			1.152	128
31.8 x 16	FS	1.2			✓	0.740	128
31.8 x 16	FS	1.6			✓	0.998	128
31.8 x 17.5	OV	1.6	✓			0.940	96
31.8 x 17.5	OV	2.0	✓			1.196	120
35 x 15	OV	2.0	✓			1.312	128
37.7 x 20.7	FS	1.6	✓			1.237	84
51 x 16	FS	1.2	✓			1.114	80
51 x 16	FS	1.6	✓			1.476	80
61.8 x 29.6	OV	1.6		✓		1.858	48
75 x 16	FS	1.0		✓		1.334	48

NOTE:

- » Non standard lengths available subject to enquiry.
- » Other coatings available include - HTGB, HRSB, HRGB, HRPO, GALVANISED**. These sections may not be available in these coatings. Please contact Orrcon Steel for availability.
- » The products listed are indicative of the range however you need to check with your local Orrcon Steel representative for availability & minimum order quantities (MOQ's).
- » MAXI-TUBE® is subject to enquiry for Precision Sections.

1.2.5 PRECISION SPECIAL SHAPES

Section: Special Shapes
Standard: AS 1450*
Surface Finish: SEMB / MSGB**

Size dxb (mm)	Gauge (mm)	Surface Finish		Nom. Linear Mass (Kg/m)	Lengths Per Pack
		SEMB	MSGB		
6100mm & 7320mm Lengths Standard					
50.8 H/RAIL	1.6		✓	1.941	30
50 x 50 30-25	1.6		✓	2.470	25
50 x 50 30-25	2.0	✓		2.907	25
50 x 50 x 68.6	1.6	✓		2.006	25

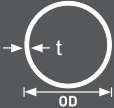
NOTE:

- » Non standard lengths available subject to enquiry.
- » Other coatings available include - HTGB, HRSB, HRGB, HRPO, GALVANISED**. These sections may not be available in these coatings. Please contact Orrcon Steel for availability.
- » The products listed are indicative of the range however you need to check with your local Orrcon Steel representative for availability & minimum order quantities (MOQ's).
- » MAXI-TUBE® is subject to enquiry for Precision Sections.

*Mechanical properties - refer to section 1.7.3 - Standards - Precision Tube.

** Refer to Glossary of Terms

1.3 SPRINKLER & HYDRANT PIPE - ORRFIRE® PIPE RANGE



Section: ORRFIRE® Pipe - Sprinkler and Hydrant Pipe
 Standard: AS4118.2.1 / AS2419
 Surface Finish: SMARTCOTE® / ALLGAL® / Hot Dipped Galvanised

OD (mm)	NB (mm)	Nominal Thickness (mm)	Designation	Surface Finish		Nom. Linear Mass (Kg/m)	Nom. Mtre/ Tonne	Lengths / Pack	Lengths / MiniPack
				SMARTCOTE	ALLGAL				
6500mm Lengths Standard									
26.7	20	2.0	XLight	✓	✓	1.23	814	127	61
26.7	20	2.3	Light	✓	✓	1.40	717	127	61
26.7	20	2.6	Medium	✓	✓	1.56	642	127	61
33.4	25	2.0	XLight	✓	✓	1.56	639	91	37
33.4	25	2.6	Light	✓	✓	1.99	501	91	37
33.4	25	3.2	Medium	✓	✓	2.41	415	91	37
42.2	32	2.0	XLight	✓	✓	1.99	501	61	37
42.2	32	2.6	Light	✓	✓	2.55	392	61	37
42.2	32	3.2	Medium	✓	✓	3.09	323	61	37
48.3	40	2.3	XLight	✓	✓	2.61	383	61	37
48.3	40	2.9	Light	✓	✓	3.25	308	61	37
48.3	40	3.2	Medium	✓	✓	3.56	280	61	37
60.3	50	2.3	XLight	✓	✓	3.29	304	37	19
60.3	50	2.9	Light	✓	✓	4.11	244	37	19
60.3	50	3.6	Medium	✓	✓	5.03	199	37	19
76.1	65	2.3	XLight	✓	✓	4.19	239	37	19
76.1	65	3.2	Light	✓	✓	5.75	174	37	19
76.1	65	3.6	Medium	✓	✓	6.44	155	37	19
88.9	80	2.6	XLight	✓	✓	5.53	181	-	-
88.9	80	3.2	Light	✓	✓	6.76	148	-	-
88.9	80	4.0	Medium	✓	✓	8.38	119	-	-
114.3	100	2.5	-	✓	✓	6.89	145	-	-
114.3	100	3.2	XLight	✓	✓	8.76	114	-	-
114.3	100	3.6	Light	✓	✓	9.83	102	-	-
114.3	100	4.5	Medium	✓	✓	12.20	82	-	-
139.7	125	3.0	XLight	✓	✓	10.11	99	-	-
139.7	125	3.5	Light	✓	✓	11.08	85	-	-
139.7	125	5.0	Medium	✓	✓	16.60	60	-	-
165.1	150	3.0	XLight	✓	✓	11.99	83	-	-
165.1	150	3.5	Light	✓	✓	13.90	72	-	-
165.1	150	5.0	Medium	✓	✓	19.70	51	-	-
165.1	150	5.4	Heavy	✓	✓	21.30	47	-	-
12000mm Lengths Standard									
168.3	-	4.8	-			19.35	52	-	-
168.3	-	6.4	-			25.55	39	-	-
219.1	200	4.8	-			25.37	39	-	-
219.1	200	6.4	-			33.57	30	-	-
273.1	250	4.8	-			31.76	31	-	-
273.1	250	6.4	-			42.09	24	-	-
323.9	300	4.8	-			37.77	26	-	-

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we'll see it through

NOTE:

- » Recommended maximum test pressure is 5000 kPa / 725 Psi.
- » The pipe must be supported to avoid all external loads and free to accommodate thermal expansion.
- » For light and extra light pipe in all sizes the minimum yield strength is 300 MPa (transverse) and 200 MPa for medium wall.
- » Pipes 200NB and above have minimum yield strength of 300 MPa (transverse).
- » These tables are applicable for services where pipe contents temperature does not exceed 250°C.
- » Pipe 20NB up to 150NB is painted fire red primer.
- » Pipe 200NB and above is painted black primer.
- » Non standard sizes, surface finish and lengths available, subject to enquiry.
- » Minimum order quantities (MOQ's) apply.
- » Pipes >300NB available subject to enquiry.
- » Contact your Orrcon Steel representative for the correct quantity of lengths per pack.

1.3 SPRINKLER & HYDRANT PIPE - ORRFIRE® PIPE SPECIFICATIONS DIAMETER TOLERANCE – ORRFIRE® PIPE

Maximum variation from nominal outside diameter in all wall thicknesses															
NB (mm)	20	25	32	40	50	65	80	100	125	150		200	250	300	
Outside Diameter (mm)	26.9	33.7	42.4	48.3	60.3	76.1	88.9	114.3	139.7	165.1	168.3	219.1	273.1	323.9	
Min OD (mm)	26.6	33.4	42.0	47.8	59.7	75.3	88.0	113.2	138.3	163.4	166.6	217.0	270.4	320.7	
Max OD (mm)	27.2	34.0	42.8	48.8	61.0	76.9	89.8	115.4	141.1	166.7	170.0	221.3	275.8	327.1	

MECHANICAL PROPERTIES – ORRFIRE® PIPE

Pipe Dimensions	Minimum Yield Strength	Minimum Tensile Strength	Minimum Elongation as a proportion of gauge Lengths
Light Wall Pipe 20 TO 150 NB (3/4 TO 6 INCH)	300 MPa	400 MPa	20%
Medium Wall Pipe 20 TO 150 NB (3/4 TO 6 INCH)	200 MPa	300 MPa	22%
Schedule 200 TO 300 NB (8 TO 12 INCH)	300 MPa	420 MPa	20%

ACTIVFIRE®
ACTIVE FIRE PROTECTION – PRODUCT CERTIFICATION

The current ActivFire® approvals are listed below.
Current copies of ActivFire® certificates are available from
www.orrconsteel.com.au/downloads

ActivFire® Approval Listing Number	Product	Designation
afp 1641	ORRFIRE® SMARTCOTE® Red Painted	Extra Light pipe
afp 1510	ORRFIRE® SMARTCOTE® Red Painted	Light pipe
afp 1511	ORRFIRE® SMARTCOTE® Red Painted	Medium pipe
afp 2481	ORRFIRE® SMARTCOTE® Red Painted	Sprinkler & Hydrant pipe Extra Light and Light
afp 1640	ORRFIRE® ALLGAL® Electro Galvanised	Extra Light pipe
afp 1528	ORRFIRE® ALLGAL® Electro Galvanised	Extra Light pipe 100NB and above
afp 1508	ORRFIRE® ALLGAL® Electro Galvanised	Light pipe
afp 1509	ORRFIRE® ALLGAL® Electro Galvanised	Medium pipe
afp 1529	ORRFIRE® Hot Dipped Galvanised	Sprinkler & Hydrant pipe Extra Light and Light
afp 1530	ORRFIRE® Hot Dipped Galvanised	Sprinkler and Hydrant Medium pipe

THREADING SPECIFICATIONS - ORRFIRE® PIPE

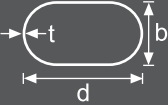
End Treatment	Min Size (mm)	Max Size (mm)	Min Thickness (mm)	Max Thickness (mm)
Threading	25NB	50NB	3.2	4.5

ROLL GROOVING SPECIFICATIONS – ORRFIRE® PIPE

End Treatment	Pipe Size (mm)	Min Thickness (mm)	Max Thickness (mm)
Roll Grooving	50NB	2.3	3.6
	65NB	2.3	3.6
	80NB	2.6	4.0
	100NB	2.5	4.5
	125NB	3.0	◆
	150NB	3.0	◆
	200NB	4.8	◆
	250NB	4.8	◆

- NOTE:** » Contact your Orrcon Steel representative for minimum thicknesses outside the listed range.
 ◆ Contact your Orrcon Steel representative for maximum thicknesses which are not listed for the specified diameter pipe.

1.4 YARD RAIL



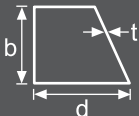
Section: Yard Rail
 Standard: AS/NZS 1163
 Grade: C350L0
 Surface Finish: PTD / MAXI-TUBE® / ALLGAL®

Size dxb (mm)	Nom. Thick (mm)	Surface Finish			Nom. Linear Mass (Kg/m)	Nom. Mtre/ Tonne	Lengths / Pack	Lengths / MiniPak
		PTD	MAXI-TUBE	ALLGAL				
Flat Sided Oval (Rail) 6100mm Lengths Standard								
52 x 25	1.6	✓	✓	✓	1.61	621	48	
52 x 25	2.0	✓	✓	✓	1.99	503	48	
53 x 35	1.6	✓	✓	✓	1.84	543	48	
59 x 30	1.6	✓	✓	✓	1.84	543	48	
59 x 30	2.0	✓	✓	✓	2.28	439	48	
66 x 44	1.6	✓	✓	✓	2.32	431	25	
66 x 44	2.0	✓	✓	✓	3.22	311	25	
75 x 40	1.6	✓	✓	✓	2.46	407	20	
75 x 40	2.0	✓	✓	✓	2.99	334	20	
75 x 40	2.5	✓	✓	✓	3.60	278	32	
85 x 48	3.2	✓	✓	✓	6.08	164	28	
97 x 42	2.0	✓	✓	✓	3.65	274	21	
97 x 42	2.5	✓	✓	✓	4.53	221	21	
108 x 38	2.0	✓	✓	✓	3.85	260	21	
115 x 42	2.0	✓	✓	✓	4.27	234	21	
115 x 42	2.5	✓	✓	✓	5.33	188	21	
124 x 42	2.0	✓	✓	✓	4.50	222	21	
Flat Sided Round (Post) 6100mm Lengths Standard								
62 x 50	2.0	✓	✓	✓	2.88	348	25	
80 x 61	2.0	✓	✓	✓	3.65	274	25	

- NOTE:** » Non standard sizes, surface finishes and lengths available, subject to enquiry.
 » Minimum order quantities (MOQ's) apply.

1.5 SILO SECTIONS

1



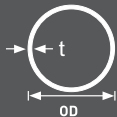
Section: Silo Sections
 Standard: AS/NZS 1163
 Grade: C350L0
 Surface Finish: ALLGAL®

Size dx b (mm)	Nom. Thick (mm)	Surface Finish	Nom. Linear Mass (Kg/m)	Nom. Mtre/Tonne	Lengths / Pack	MiniPack
		ALLGAL				
12000mm Lengths Standard						
75 x 64	2.5	✓	4.58	218	24	
75 x 64	3.0	✓	5.46	183	24	

NOTE:

- » Non standard surface finishes and lengths available, subject to enquiry.
- » Minimum order quantities (MOQ's) apply.

1.6 HOT DIPPED GALVANISED PIPE



Section: HDG Pipe
 Standard: AS 1074 / AS 1450+
 Surface Finish: AS 4792-HDG 300

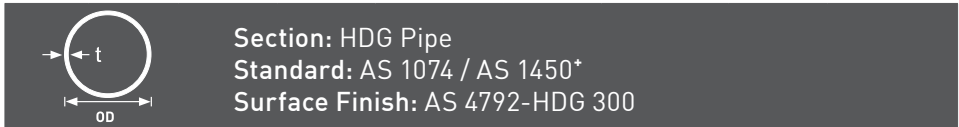
Size (mm)	OD (mm)	AS 1074	AS 1450	Nom. Thickness (mm)	Lengths / Pack	Nom. Linear Mass (kg/m)	Length (mm)	Mass / Pack (Tonnes)
6500mm Lengths Standard								
15NB	21.3	M		2.6	91	1.23	6500	0.73
20NB	26.9		XL	2.0	91	1.28	6500	0.75
20NB	26.9		XL	2.0	91	1.28	7200	0.84
20NB	26.9	L		2.3	91	1.44	6500	0.85
20NB	26.9	M		2.6	91	1.60	6500	0.95
20NB	26.9	H		3.2	91	1.92	6500	1.13
25NB	33.7		XL	2.0	91	1.62	6500	0.96
25NB	33.7		XL	2.0	91	1.62	7200	1.06
25NB	33.7	L		2.6	91	2.05	6500	1.21
25NB	33.7	M		3.2	91	2.46	6500	1.46
25NB	33.7	H		4.0	91	2.99	6500	1.77
32NB	42.4		XL	2.0	61	2.07	6500	0.82
32NB	42.4		XL	2.0	61	2.07	7200	0.91
32NB	42.4	L		2.6	61	2.63	6500	1.04
32NB	42.4	M		3.2	61	3.17	6500	1.26
32NB	42.4	H		4.0	61	3.86	6500	1.53
40NB	48.3		XL	2.3	61	2.70	6500	1.07
40NB	48.3		XL	2.3	61	2.70	7200	1.18
40NB	48.3	L		2.9	61	3.33	6500	1.32
40NB	48.3	L		2.9	61	3.33	7200	1.46

NOTE:
 + Grade C250

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1.6 HOT DIPPED GALVANISED PIPE CONT...

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Size (mm)	OD (mm)	AS 1074	AS 1450	Nom. Thickness (mm)	Lengths / Pack	Nom. Linear Mass (kg/m)	Length (mm)	Mass / Pack (Tonnes)
40NB	48.3	M		3.2	61	3.64	6500	1.44
40NB	48.3	M		3.2	61	3.64	7200	1.60
40NB	48.3	H		4.0	61	4.45	6500	1.77
50NB	60.3		XL	2.3	37	3.40	6500	0.82
50NB	60.3		XL	2.3	37	3.40	7200	0.91
50NB	60.3	L		2.9	37	4.21	6500	1.01
50NB	60.3	M		3.6	37	5.14	6500	1.24
50NB	60.3	H		4.5	37	6.30	6500	1.51
65NB	76.1		XL	2.3	37	4.33	6500	1.04
65NB	76.1	L		3.2	37	5.89	6500	1.42
65NB	76.1	M		3.6	37	6.57	6500	1.58
65NB	76.1	H		4.5	37	8.08	6500	1.94
80NB	88.9		XL	2.6	19	5.70	6500	0.70
80NB	88.9	L		3.2	19	6.92	6500	0.86
80NB	88.9	M		4.0	19	8.54	6500	1.05
80NB	88.9	H		5.0	19	10.50	6500	1.30
90NB	101.6		XL	2.6	19	6.53	6500	0.81
90NB	101.6	L		3.2	19	7.95	6500	0.98
90NB	101.6	M		4.0	19	9.81	6500	1.21
90NB	101.6	H		5.0	19	12.09	6500	1.49
100NB	114.3		XL	3.2	19	8.98	6500	1.11
100NB	114.3	L		3.6	19	10.04	6500	1.24
100NB	114.3	M		4.5	19	12.39	6500	1.53
100NB	114.3	H		5.4	19	14.71	6500	1.82
125NB	139.7		XL	3.0	13	10.37	6500	0.88
125NB	139.7	L		3.5	13	12.01	6500	1.02
125NB	139.7	M		5.0	13	16.86	6500	1.42
125NB	139.7	H		5.4	13	18.14	6500	1.53
150NB	165.1		XL	3.0	10	12.30	6500	0.80
150NB	165.1	L		3.5	10	14.25	6500	0.93
150NB	165.1	M		5.0	10	20.04	6500	1.30
150NB	165.1	H		5.4	10	21.57	6500	1.40

NOTE:

- » Non standard lengths are available, subject to enquiry. Product conformance letter provided upon request. Higher grades may be available. Contact your local Orrcon Steel Representative for further information.

+ Grade C250

1.6 Hot Dipped Galvanised Pipe

1.7 TUBE & PIPE INFORMATION

1

1.7.1 STRUCTURAL STANDARDS & TOLERANCES

Manufacturing Standards

Orrcon Steel products are manufactured by Cold Forming and Electric Resistance Welding (ERW) and are tested to meet the following Australian Standards:

STRUCTURAL

Hollow sections to be used for structural purposes are manufactured to meet:

- AS/NZS 1163 - Structural Steel Hollow Sections (Grades C250, C350, C450, C250L0, C350L0, & C450L0).

COATINGS & SURFACE FINISHES

Electrogalvanised coating applied to ALLGAL® hollow sections complies to the following standard:

- AS 4750 - Electrogalvanised (zinc) coatings on ferrous hollow sections.

CURRENT SURFACE FINISHES

- SMARTCOTE® – Painted blue/black water based acrylic primer.
- ALLGAL® – Electrogalvanised internal and external surface coating.
- ALLGAL®PCQ – Powder coat quality - no tube mark, oiled.
- PREGAL – Hot dipped galvanised internal & external surface coating.
- OILED – lightly oiled for short term corrosion protection.
- NOPC – No oil, paint or coating.
- MAXI-TUBE® – A zinc-alloy coated steel section that shows high corrosion resistance in many aggressive environments.

ORRCON STEEL BROADSPEC® - STRUCTURAL & PRESSURE PIPE

Broadspec® covers the following Australian and International standards:

Standard	Grades
API 5L	X42 / X52
ASTM A53	A & B
AS/NZS 1163	C350 L0

- Broadspec® meets the design rules as specified in AS 4041, AS 2118/4118 and AS 4100, as well as in other standards.

WELDLINE LOCATION (NON-CIRCULAR TUBE)

Where weldline location is specified, appropriate gauging shall be determined by agreement.

INTERNAL FITMENTS

Where internal fitments are specified, appropriate gauging shall be determined by agreement.

Standard Mechanical Properties - Structural Tube & Pipe

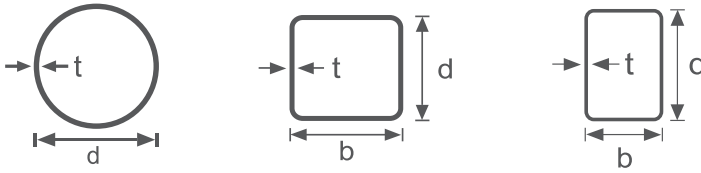
Standard	Grade*	Yield Strength MPa (min)	Tensile Strength MPa (min)	CHS			RHS & SHS		
				<15	15-30	>30	<15	15-30	>30
AS/NZS 1163	C250 / C250L0	250	320	18	20	22	14	16	18
	C350 / C350L0	350	430	16	18	20	12	14	16
	C450 / C450L0	450	500	12	14	16	10	12	14

*L0 designation indicates guaranteed impact strength properties at 0°C, refer glossary.

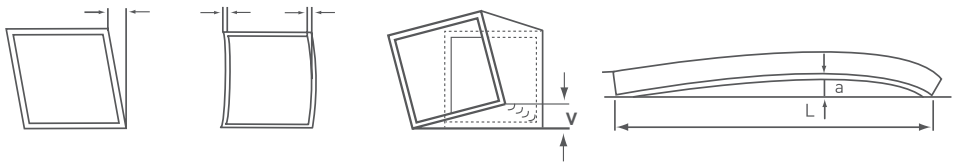
C = Cold formed hollow section.

1.7.1 STRUCTURAL STANDARDS & TOLERANCES CONT...

Standard Tolerances - Structural Tube & Pipe



AS1163		Dimensional Tolerances	
Characteristic		Pipe (CHS)	Rectangular & Square (RHS / SHS)
External dimensions (d, b, d_o)		$\pm 1\%$ with minimum of $\pm 0.5\text{mm}$ & maximum $\pm 10\text{mm}$	$\pm 1\%$ with minimum of $\pm 0.5\text{mm}$
Thickness (t)	$d \leq 406.4\text{mm}$	$\pm 10\%$	$\pm 10\%$
	$d > 406.4\text{mm}$	$\pm 10\%$ with max of $\pm 2\text{mm}$	
All Sections			
Mass		Not less than 96% of specified nominal mass	



AS1163		Shape Tolerances	
Characteristic		All Sections	
Corner Radius	$\leq 50 \times 50\text{mm}$ equivalent perimeter	1.5t to 3t	
	$> 50 \times 50\text{mm}$ equivalent perimeter	1.8t to 3t	
Twist (v)		$\leq 2\text{mm} \pm 0.5\text{mm/m}$ Lengths	
Concavity / Convexity		Max 0.8% or 0.5mm, whichever is greater	
Squareness		$90 \pm 1^\circ$	
		Pipe (CHS)	Rectangle & Square (RHS/SHS)
Straightness		0.20% of total Lengths	0.15% of total Lengths

1.7.2 STRUCTURAL PROCESSING & SERVICES

PROCESSING

Please note Orrcon Steel offers processing options including laser tube cutting, pack cutting, pipe threading, shouldering and roll grooving. Not all processing is available at all locations. Please contact Orrcon Steel for further information.

JET ROLLING

Rolling of product outside the normal schedule. Minimum order quantities (MOQ's) apply.

1.7.2 PRODUCT STANDARDS & SERVICES CONT...

1

MINIPAKS®

- » Retain current stock level but increase stock range.
- » Easier to handle, store and transport.
- » Increase customer stock turns.
- » Reduced costs = increased profits.
- » Now available in pipe.
- » Comes in ALLGAL® and painted finishes in most sizes.
- » Note: Special Lengths MiniPaks available ex-rolling. Minimum order quantities (MOQ's) apply.

Special Requirements

If you cannot find what you are looking for in our standard product range, our flexible mill options mean that we may still be able to meet your requirements.

We can offer the following, depending on your requirements:

- » Variations to standard mill Lengths
- » Other section sizes
- » Variable grades, chemical compositions & mechanical properties
- » Exact cut Lengths
- » Restricted tolerances
- » Other surface finishes & thicknesses

After assessing the shape/section and tooling cost we can provide you with a quotation for the special product. Minimum order quantities (MOQ's) may apply.

1.7.3 PRECISION STANDARDS & TOLERANCES

Standards - Precision Tube

Orrcon Steel products are manufactured by cold forming and electric resistance welding and are tested to meet the following Australian Standards:

MECHANICAL

Hollow sections used for mechanical purposes are manufactured to generally meet:

- » AS 1450 - Steel Tubes for Mechanical Purposes (Grades C200 & C250 ERW).

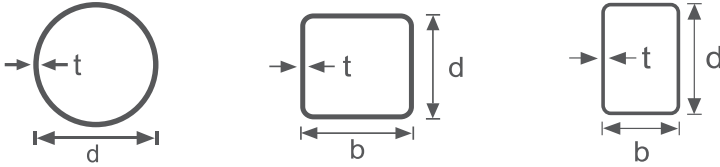
Standard Mechanical Properties - Precision Tube

Standard	Surface Finish	D/T Ratio	Yield Strength MPa (min)	Tensile Strength MPa (min)	Elong on 5.65√S ₀ % (min)
AS1450	Commercial Quality & Aluminium Coated	<15	300	310	15
		15 to 25	275	300	20
		<25 to 35	250	290	25
		< 35	200	280	30
	Zinc Coated		300	350	15

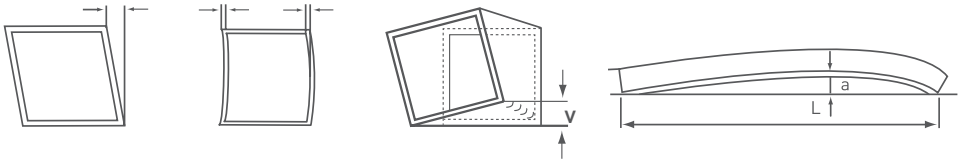
D = Outside diameter or equivalent round | t = nominal wall thickness | S₀ = Cross Sectional Area

1.7.3 PRECISION STANDARDS & TOLERANCES CONT...

Tolerances - Precision Tube



AS1450		Dimensional Tolerances	
Characteristic		Round	Rectangular & Square
Dimension (d, b, d_0)	$\leq 25\text{mm}$	$\pm 0.15\text{mm}$	$\pm 0.5\text{mm}$
	> 25 and ≤ 50	$\pm 0.20\text{mm}$	
	> 50 and ≤ 75	$\pm 0.30\text{mm}$	$\pm 1\%$
	> 75 and ≤ 100	$\pm 0.40\text{mm}$	
Mass		Rounds, Rectangular & Square $\pm 10\%$	



AS1450	Shape Tolerances
Characteristic	All Sections
Corner Radius	Max $3t$
Twist (v)	$< 2\text{mm} + 0.5\text{mm/m}$ Lengths
Squareness	$90 \pm 1^\circ$
Straightness (a)	Shall not exceed: Mill Lengths(mm) / 600

1.7.4 PRECISION SURFACE FINISHES & SERVICES

COMMERCIAL QUALITY ERW STEEL TUBING

Standard tubing is manufactured from a range of steel strip types including cold rolled and hot rolled pickled and oiled. The strip has a matt finish, and after being polished in the tube rolling process the resulting surface finish is suitable in most applications.

Tubing is coated with a non-tacky rust preventative that is designed to withstand corrosion for at least three months when stored in normal, dry warehouse conditions. The tube can be welded without removal of the rust preventative.

1.7.4 PRECISION SURFACE FINISHES & SERVICES CONT...

1

Surface Finishes - Precision Tube

RUST PROTECTION

Rust preventative oil should be re-applied periodically where prolonged storage is required.

MSGB, HTGB, ACMS, ZINC AND ALUMINIUM COATED ERW STEEL TUBING

Tubing is manufactured from a range of zinc and aluminium coated steel strip types which are coated on both sides. The welded seam of the tube is re-coated with a zinc and aluminium alloy to replace the material that the welding process has burnt away. Zinc coated tube is coated with a protective agent designed to withstand white rust when stored in normal, dry conditions. Aluminium coated tube is supplied without this protective agent.

The performance of zinc coated steel is influenced by micro-environments, which vary from site to site. In corrosive environments it is recommended that a suitable barrier coating (eg. paint or powder coating) be applied over the zinc surface. This application should be in accordance with the supplier's recommendations with regard to surface pre-treatment, application, curing, and maintenance of the coating - refer to AS/NZS 2312 'Guide to the Protection of Iron Steel against Exterior Atmospheric Corrosion'.

MSBR – MILD STEEL BRIGHT

Finish – Has a bright finish and is typically used in the manufacture of products that require a higher grade surface finish such as electroplating or similar critical finish applications.

SEMB – SEMI BRIGHT

Finish – Typically has a steel grey appearance and suitable surface for general applications. Ideal where demanding and consistent properties are required.

HRSB – HOT ROLLED SEMI BRIGHT

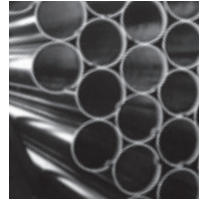
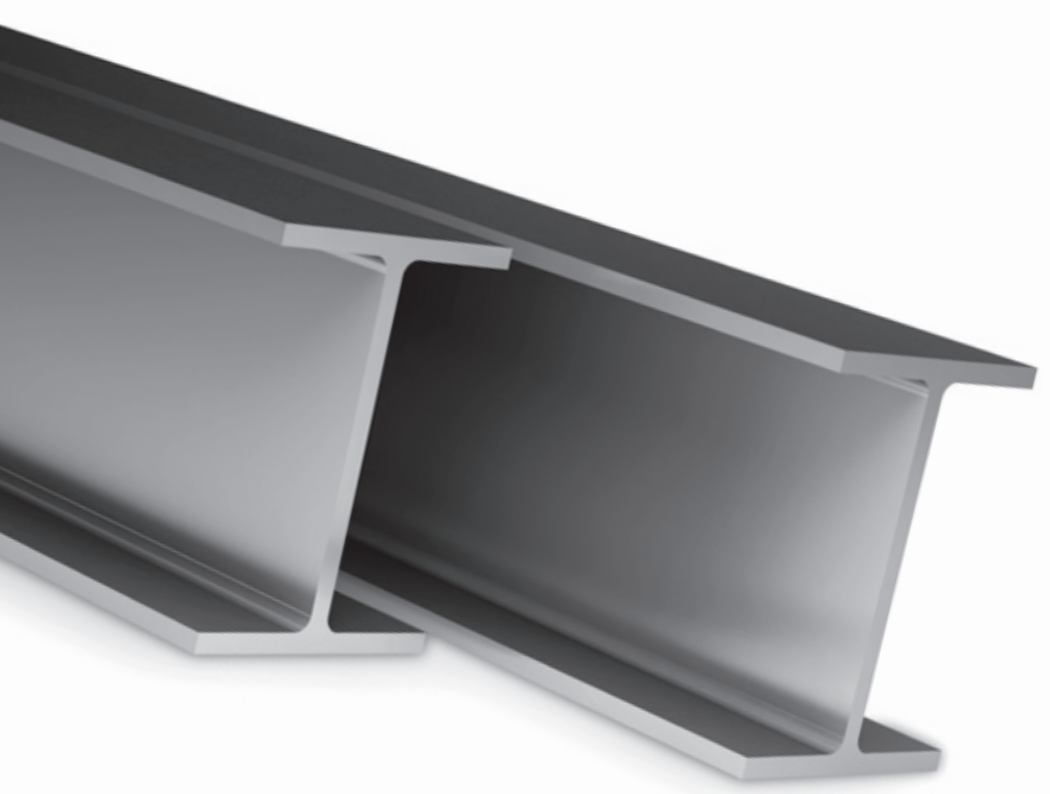
Finish - Typically has a steel grey appearance and suitable surface for general applications. Ideal for paint or powder coated products.

MSBL – MILD STEEL BLACK

Finish - Has a black, mill finish.

Special Requirements & Non Standard Products

If you have special requirements which are not in our standard range of Commercial Quality, zinc coated or aluminium coated products, Orrcon Steel is happy to assist. Some of the services we offer include different mill lengths, other section sizes, different grades, chemical composition, and mechanical properties, exact cut Lengths, restricted tolerances, other surface finishes and coating thickness as well as perforating. Minimum order quantities (MOQ's) may apply.



Hot Rolled Structural & Plate

we'll see it through



HOT ROLLED STRUCTURAL & PLATE

Orrcon Steel offers a complete range of Hot Rolled Structural Products, including beams, columns, channels, angles, merchant bar (flats, angles, rounds, squares) & plate.

2.1 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 manufactured in accordance with AS/NZS 3679.1.

Grades available – 300MPa

Plain & Floor(Checker) Plate – Manufactured in accordance with AS/NZS 3678 & AS/NZS 1594.

Grades available -250 & 350MPa

SERVICES

2

- » **Computerised Nesting and Quoting.**
- » **Processing** – Including straight and mitre cutting. Drilling and plasma profiling only available in QLD at selected branches.
- » **Delivery of all products.**
- » **Other requirements** – Please contact your Orrcon Steel representative.

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

2.2 SECTION TRANSLATION GUIDE

Section Translation Guide – STG

Now you can compare open steel sections with hollow steel sections by a click of your mouse! The STG is a free web based software that allows you to compare structural steel hollow sections against hot-rolled open sections. It will assist you to get the best architectural effect, structural efficiency and cost savings for your designs and projects.

The best part is it's a free resource.

If you would like to access the STG, simply go to www.sectiontranslation.com.au and register.



2.3 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
	18.0	56	155	75	9.5	136	6.0
180 UB	16.1	62	173	90	7.0	159	4.5
	18.1	55	175	90	8.0	159	5.0
	22.2	45	179	90	10.0	159	6.0
200 UB	18.2	55	198	99	7.0	184	4.5
	22.3	45	202	133	7.0	188	5.0
	25.4	39	203	133	7.8	188	5.8
	29.8	34	207	134	9.6	188	6.3
250 UB	25.7	39	248	124	8.0	232	5.0
	31.4	32	252	146	8.6	234	6.1
	37.3	27	256	146	10.9	234	6.4
310 UB	32.0	31	298	149	8.0	282	5.5
	40.4	25	304	165	10.2	284	6.1
	46.2	22	307	166	11.8	284	6.7
360 UB	44.7	22	352	171	9.7	333	6.9
	50.7	20	356	171	11.5	333	7.3
	56.7	18	359	172	13.0	333	8.0
410 UB	53.7	19	403	178	10.9	381	7.6
	59.7	17	406	178	12.8	381	7.8
460 UB	67.1	15	454	190	12.7	428	8.5
	74.6	13	457	190	14.5	428	9.1
	82.1	12	460	191	16.0	428	9.9
530 UB	82.0	12	528	209	13.2	502	9.6
	92.4	11	533	209	15.6	502	10.2
610 UB	101.0	10	602	228	14.8	572	10.6
	113.0	9	607	228	17.3	572	11.2
	125.0	8	612	229	19.6	572	11.9

UNIVERSAL BEAMS LENGTHS 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	✓	✓	✓	✓	✓	✓	✓

NOTE: Not all products are available at all locations. Please contact your Orrcon Steel representative for availability.



we'll see it through

2.3 UNIVERSAL BEAMS (UB) CONT...

UNIVERSAL BEAMS LENGTHS MATRIX							
Size Specification (mm)	9.0m	10.5m	12m	13.5m	15m	16.5m	18m
360 UB	✓	✓	✓	✓	✓	✓	✓
410 UB	✓	✓	✓	✓	✓	✓	✓
460 UB	✓	✓	✓	✓	✓	✓	✓
530 UB	✓	✓	✓	✓	✓	✓	✓
610 UB	✓	✓	✓	✓	✓	✓	✓

2.4 UNIVERSAL COLUMNS (UC)

2



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
	30.0	33	158	153	9.4	139	6.6
	37.2	27	162	154	11.5	139	8.1
200 UC	46.2	22	203	203	11.0	181	7.3
	52.2	19	206	204	12.5	181	8.0
	59.5	17	210	205	14.2	181	9.3
250 UC	72.9	14	254	254	14.2	225	8.6
	89.5	11	260	256	17.3	225	10.5
310 UC	96.8	10	308	305	15.4	277	9.9
	118.0	8	315	307	18.7	277	11.9
	137.0	7	321	309	21.7	277	13.8
	158.0	6	327	311	25.0	277	15.7

UNIVERSAL COLUMNS LENGTHS 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 Orrcon Steel representative for availability.

2.4 Universal Columns

2.5 PARALLEL FLANGE CHANNELS



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 Orrcon Steel representative for availability.

2.6 ANGLES

2.6.1 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
	5	1.65	606
	6	2.08	481
30 x 30	3	1.35	741
	5	2.01	498
	6	2.56	391
40 x 40	3	1.83	546
	5	2.73	366
	6	3.50	286
45 x 45	3	2.06	485
	5	3.10	323
	6	3.97	252
50 x 50	3	2.31	433
	5	3.48	287
	6	4.46	224
	8	5.68	176
55 x 55	5	3.84	260
	6	4.93	203
65 x 65	5	4.56	219
	6	5.87	170
	8	7.51	133
	10	9.02	111
75 x 75	5	5.27	190
	6	6.81	147
	8	8.73	115
	10	10.50	95
90 x 90	6	8.22	122
	8	10.60	94
	10	12.70	79
100 x 100	6	9.16	109
	8	11.80	85
	10	14.20	70
	12	17.70	57

Table continues over page

2.6.1 ANGLES - EQUAL ANGLES 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
	10	18.00	56
	12	22.50	44
	16	29.10	34
150 x 150	10	21.90	46
	12	27.30	37
	16	35.40	28
	19	42.10	24
200 x 200	13	40.00	25
	16	48.70	21
	18	54.40	18
	20	60.10	17
	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 Orrcon Steel representative for availability.

2.6.2 ANGLES - UNEQUAL ANGLES (UA)



Section: Unequal Angles
 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
	6	5.16	149
	8	6.59	152
75 x 50	5	4.40	228
	6	5.66	176
	8	7.23	138
100 x 75	6	7.98	125
	8	10.30	97
	10	12.40	81
125 x 75	6	9.16	109
	8	11.80	85
	10	14.20	70
	12	17.70	57
150 x 90	8	14.30	70
	10	17.3	58
	12	21.6	46
	16	27.9	36
150 x 100	10	18.0	56
	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 Orrcon Steel representative for availability.

2.7 MERCHANT BAR


2.7.1 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 lengths - 6 metres.
- » Non standard lengths available subject to enquiry.
- » Not all products are available at all locations. Please contact your Orrcon Steel representative for availability.

2.7.2 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 lengths - 6 metres.
- » Non standard lengths available subject to enquiry.
- » Not all products are available at all locations. Please contact your Orrcon Steel representative for availability.

2.7.3 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

Table continues over page

NOTE:

- » *4 metres lengths only.
- » Standard lengths - 6 metres.
- » Non standard lengths available subject to enquiry.
- » Not all products are available at all locations. Please contact your Orrcon Steel representative for availability.

2.7.3 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)
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
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

Table continues over page

2

2.7.3 Merchant Bar - Flats

2.7.3 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)
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
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

Table continues over page

2.7.3 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)
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:

- » Standard lengths - 6 metres.
- » Non standard lengths available subject to enquiry.
- » Not all products are available at all locations. Please contact your Orrcon Steel representative for availability.

2.8 PLATE

2.8.1 PLAIN PLATE

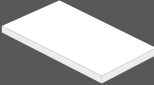
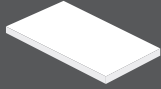
 Section: Plain Plate Standard: AS/NZS 3678 Grade: 250 & 350MPa Surface Finish: Mill Finish					
Plate Thickness (mm)	Weight / Square Metre (kg/m ²)	Weight / Linear Metre of Plate Width (kg)			
		1200mm	1500mm	1800mm	2400mm
3	23.55	28.3	35.3	42.4	56.5
4	31.40	37.7	47.1	56.5	75.4
5	39.25	47.1	58.9	70.7	94.2
6	47.10	56.5	70.7	84.8	113.0
8	62.80	75.4	94.2	113.0	150.7

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2.8.1 PLAIN PLATE CONT...



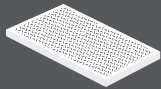
Section: Plain Plate
 Standard: AS/NZS 3678
 Grade: 250 & 350MPa
 Surface Finish: Mill Finish

Plate Thickness (mm)	Weight / Square Metre (kg/m ²)	Weight / Linear Metre of Plate Width (kg)			
		1200mm	1500mm	1800mm	2400mm
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

2

2.8.1 Plain Plate

2.8.2 FLOOR (CHECKER) PLATE



Section: Floor (Checker) Plate
 Standard: AS/NZS 3678
 Grade: 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 Orrcon Steel representative for availability.



Building Products







we'll see it through



3.1 ROOFING, CLADDING, PURLINS & ACCESSORIES

3.1.1 ROOFING PROFILES

ROOFING PROFILE SELECTION GUIDE

Profile	BMT* (mm)	Mass (kg/m ²)	Width of Coverage (mm)	Depth of Rib (mm)	Minimum Roof Pitch (deg / mm)	Maximum Recommended Spacing of Supports for Roof Spans in normal conditions (mm)**		
						Single	End	Internal
 42mm high clip fixed profile	0.42	4.74	700	42	1° (1 in 60)	-	1950	2500
	0.48	5.37				-	2350	2800
 48mm high rib fixed profile	0.42	4.42	680	48	1° (1 in 60)	-	2800	3400
	0.48	5.05				-	-	-
 28mm high rib fixed profile	0.42	4.42	762	28	2° (1 in 30)	1000	1300	1700
	0.48	4.96				1500	1700	2300
 24mm high rib fixed profile	0.42	4.48	700	24	3° (1 in 20)	1300	1800	2400
	0.48	5.38				2000	2200	3000
 16mm high corrugated rib fixed profile	0.42	4.42	762	16	5° (1 in 12)	700	900	1200
	0.48	4.96		16		700	1200	1600
	0.6	6.29		17		600	900	1200
 48mm high clip fixed profile	0.55	7.62	305	48	1° (1 in 60)	1800	1800	2000
	0.7	9.53				2200	2200	2500

NOTE:

- » The above span information is to be used as a guide only. Spans have been based on a **regional wind speed for Region A location (non-cyclonic) as per AS1170.2.
- » Different manufacturers sheet profiles may differ in dimensions and name.
- » Minimum roof pitch is dependent on the Lengths of the roof.
- » Contact your Orrcon Steel representative for availability of roofing and cladding in various regions.

* **BMT - Base Metal Thickness**

****Regional Wind Speeds**






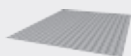


Region A - Non-cyclonic.

Region B - Non-cyclonic but higher wind speeds than Region A.

Region C - Cyclonic.

Region D - Cyclonic - higher wind speeds than Region C.

3.1.2 WALL CLADDING PROFILES

WALL CLADDING PROFILE SELECTION GUIDE							
Profile	BMT* (mm)	Mass (kg/m ²)	Width of Coverage (mm)	Depth of Rib (mm)	Maximum Recommended Spacing of Supports for Roof Spans in Normal Conditions (mm)**		
					Single	End	Internal
 42mm high clip fixed profile	0.42	4.74	700	42	-	2400	3300
	0.48	5.37			-	2800	3600
 16mm high corrugated rib fixed profile	0.35	3.68	762	16	-	1200	1600
	0.42	4.42		16	-	1350	1800
	0.48	4.96		16	-	1800	2400
	0.6	6.29		17	-	-	-
 24mm high rib fixed profile	0.42	4.48	700	24	1800	1800	2400
	0.48	5.38			2600	2200	3000
 28mm high rib fixed profile	0.35	3.68	762	28	-	1200	1600
	0.42	4.42			1800	1800	2200
	0.48	4.96			1950	2050	2800
 12mm high rib fixed profile	0.35	3.43	817	12	-	1800	2700
	0.42	4.11			-	1900	2800
 4mm high rib fixed profile	0.42	4.07	850	4	600	600	600
 6mm high mini corrugated rib fixed profile	0.42	4.15	810	6	1200	1200	1200
	0.48	4.65			1350	1350	1350
	0.6	5.91			1000	1000	1000
 265mm wide weather-board profile	0.42	4.15	265	-	-	1900	2800

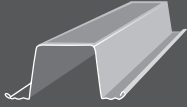
NOTE:

- » The above span information is to be used as a guide only. Spans have been based on a regional wind speed for **Region A location as per AS1170.2.
- » Different manufacturers sheet profiles may differ in dimensions and name.
- » Contact your Orrcon Steel representative for availability of roofing and cladding in various regions.

* BMT - Base Metal Thickness

** See previous page for regional wind speed description.

3.1.3 ROOF BATTENS



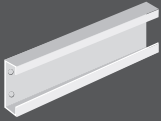
ROOF BATTENS

Top Hat Size	Gauge (BMT*)	Available Stock Lengths
22	0.42	6100mm
38	0.55	6100mm
40	0.48	6100mm
	0.55	
	0.75	
50	0.75	7500mm
64	0.75	7500mm
	0.95	
75	0.75	7500mm
96	0.95	7500mm
120	0.95	7500mm

NOTE:

- » *BMT refers to Base Metal Thickness.
- » Contact your Orrcon Steel representative for availability of roof battens in various regions.

3.1.4 PURLINS & GIRTS



C PURLINS & GIRTS

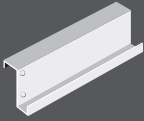
Description	Web (mm)	Flange (mm)	Lip (mm)	Thickness (mm)	Weight/Linear Metre (kg/m)
C75-10	76	44	13.0	1.0	1.32
C75-12	76	44	13.0	1.2	1.65
C75-15	76	45	14.0	1.5	2.10
C100-10	102	51	12.5	1.0	1.78
C100-12	102	51	12.5	1.2	2.10
C100-15	102	51	13.5	1.5	2.62
C100-19	102	51	14.5	1.9	3.29
C100-24	102	51	14.5	2.4	3.84
C150-12	152	64	14.5	1.2	2.84
C150-15	152	64	15.5	1.5	3.53
C150-19	152	64	16.5	1.9	4.45
C150-24	152	64	18.5	2.4	5.57
C200-15	203	76	15.5	1.5	4.39
C200-19	203	76	19.0	1.9	5.73
C200-24	203	76	21.0	2.4	7.10
C250-19	254	76	18.5	1.9	6.27
C250-24	254	76	20.5	2.4	7.87
C300-24	300	96	27.5	2.4	10.09
C300-30	300	96	31.5	3.0	12.76
C350-24	350	125	30.0	2.4	11.96
C350-30	350	125	30.0	3.0	14.99
C400-19	400	96	34.0	1.9	10.22
C400-24	400	96	34.0	2.4	12.91
C400-30	400	96	34.0	3.0	14.99

NOTE:

- » Stock Lengths are available for selected sizes.
- » Purlins & girts are made from high tensile steel and are to be fastened rather than welded.
- » Use the bridging system from the relevant manufacturer to match their purlin and girt products.
- » Contact your Orrcon Steel representative for availability of Purlins and girt sizes in various regions.



3.1.4 PURLINS & GIRTS CONT...



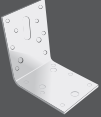
Z PURLINS & GIRTS

Description	Web (mm)	Flange (mm)	Lip (mm)	Thickness (mm)	Weight/Linear Metre (kg/m)
Z100-10	102	53	14	1.0	1.78
Z100-12	102	53	14	1.2	2.10
Z100-15	102	53	15	1.5	2.62
Z100-19	102	53	15	1.9	3.29
Z100-24	102	53	15	2.4	3.84
Z150-12	152	65	19	1.2	2.84
Z150-15	152	65	19	1.5	3.53
Z150-19	152	65	19	1.9	4.45
Z150-24	152	65	20	2.4	5.57
Z200-15	203	79	17	1.5	4.39
Z200-19	203	79	20	1.9	5.73
Z200-24	203	79	21	2.4	7.10
Z250-19	254	79	18	1.9	6.27
Z250-24	254	79	21	2.4	7.87
Z300-24	300	100	27	2.4	10.09
Z300-30	300	100	31	3.0	12.76
Z350-24	350	129	32	2.4	11.96
Z350-30	350	129	30	3.0	14.99
Z400-19	400	129	32	1.9	10.22
Z400-24	400	129	32	2.4	12.91
Z400-30	400	129	32	3.0	14.99
Z400-32	400	129	32	3.2	17.21

NOTE:

- » Stock Lengths are available for selected sizes.
- » Purlins & girts are made from high tensile steel and are to be fastened rather than welded.
- » Use the bridging system from the relevant manufacturer to match their purlin and girt products.
- » Contact your Orrcon Steel representative for availability of Purlins and girt sizes in various regions.

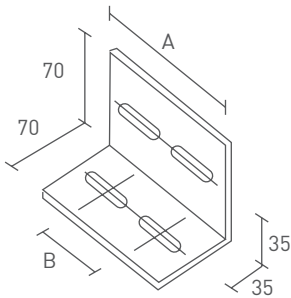
3.1.4 PURLINS & GIRTS CONT...



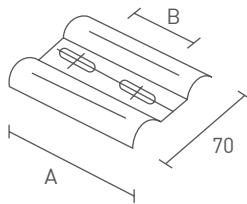
PURLIN & GIRT ACCESSORIES

Description	A	B	C	D	E	Base Metal Thickness (BMT)
100BUP	90	40				3mm
150BUP	140	60				
200BUP	190	110				
250BUP	240	160				
100GPB	90	40				3mm
150GPB	140	60				
200GPB	190	110				
250GPB	240	160				
100GPBLL	66	115	30	60	60	3mm
150GPBLL	105	125	30	67	60	
200GPBLL	154	136	36	73	110	
250GPBLL	200	136	36	73	160	

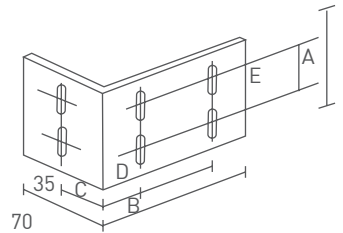
**General Purpose Brackets
GPB Series**



**Clamp Plates
BUP Series**


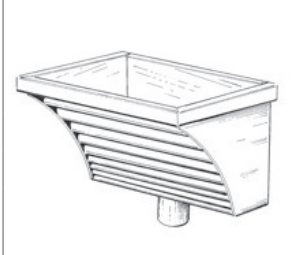


**General Purpose Brackets
- Long Leg
GPBLL Series**



All holes 18 x 30


3.1.5 RAINWATER PRODUCTS

RAINWATER PRODUCTS		
Profiles	Gutters & Fascia Type	Gutter Accessories
	115 O.G	Mitres
	115 Quad	Stop Ends
	125 D Gutter	Support Brackets
	150 Low Front Quad	Leaf Guards
	Hi Front Quad	
	150 Halfline	
	150 Half Round	
	Fascia Gutter	
	Flat Fascia	
	Fascia Cover	
Profiles	Down Pipe Accessories	
	Square Down Pipes	
	Round Down Pipes	
	Outlets	
	Rainheads	
	Sumps	
	Straps	
	Elbows	

NOTE:

- » Different manufacturers gutter profiles are available but will differ in dimensions and name.
- » More rainwater products available to order.

3.1.6 ACCESSORIES

FASTENERS		
Profiles	Fastener Type	Unit
	M5.5 x 40 Batten Zips Plain	100 Pack
	M6 x 50 Hex Roof Zip Cl4 Eucalypt	100 Pack
	M6 x 50 Hex Roof Zip Cl4 Paperbark	100 Pack
	M6 x 50 Hex Roof Zip Cl4 Surf Mist	100 Pack
	M6 x 50 Hex Roof Zip Cl4 Headland	100 Pack

3.1.7 STEEL SHEET - COATED & UNCOATED



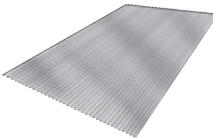
 Section: Steel Sheet - Coated & Uncoated Standard: AS/NZS 1365, 1397, 1594, 1595 Surface Finish: Mill Finish, GALVABOND®, ZINCANNEAL®, ZINCALUME®, COLORBOND®						
Thickness		Sheet Size mm x mm	Sheet Count / Tonne			
Hot Rolled	Cold Rolled		Hot Rolled	GALVABOND®	ZINCANNEAL® ZINCALUME®	Sign White & COLORBOND®
	0.40	1800 x 1200		132.76		
	0.40	2400 x 1200		99.57		
	0.55	1800 x 1200		100.48	102.38	100.20
	0.55	2400 x 1200		75.36	76.78	75.16
	0.75	1800 x 1200		74.95	75.67	
	0.75	2400 x 1200		56.21	56.75	
	0.95	1800 x 1200		59.76	61.01	
	0.95	2400 x 1200		44.82	45.76	
	1.15	1800 x 1200		49.69	50.55	
	1.15	2400 x 1200		37.27	37.91	
	1.15	2400 x 1500			30.77	
1.60	1.55	1800 x 1200	38.86	37.16	37.65	
1.60	1.55	2400 x 1200	27.64	27.87	28.33	
1.60	1.55	3000 x 1200	22.12	22.30	22.59	
	1.55	3000 x 1500		18.26		
2.00	1.95	1800 x 1200	29.49	29.68	29.99	
2.00	1.95	2400 x 1200	22.12	22.26	22.49	
2.00	1.95	3000 x 1200	17.69	17.81	17.99	
2.50	2.45	1800 x 1200	23.59	23.80		
2.50	2.45	2400 x 1200	17.69	17.85		
2.50	2.45	3000 x 1200	14.15	14.28		
3.00	2.95	1800 x 1200	19.66	19.75		
3.00	2.95	2400 x 1200	14.74	14.82		
3.00	2.95	3000 x 1200	11.80			

NOTE: Galvabond®, Zincanneal®, Zinalume®, Colorbond® are all registered trademarks of BlueScope.



3.2 FENCING & WIRE MESH PRODUCTS

3.2.1 COLORBOND® FENCING

COLORBOND® FENCING - PRODUCT COMPONENT LIST		
Profiles	Components	Colour Range
 <p>16mm high corrugated rib fixed profile</p>  <p>42mm high clip fixed profile</p>  <p>6mm high mini corrugated rib fixed profile</p>	3 x fence sheets	Colorbond® Colour range
	2 x posts	
	2 x rails	
	15 x 10 x 16 tek screws (approx)	
	1 x plastic post cap	

3

3.2.2 PUNCHED RAIL

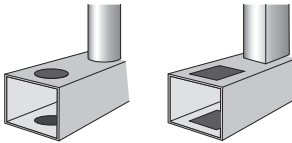
MILD STEEL GALVABOND®				HOLE DIMENSIONS (mm)			
Section	Gauge	Lengths	Punch profile	Size	Centres	Gap	Pack Qty
30X30	1.6	5000	Sgl	19 OD	110	91	49
			DbL	19 OD	110	91	49
		6150	Sgl	19 OD	99	80	64
			Sgl	16 OD	110	94	49
		16 OD		99	83	49	
		19 OD		114	95	49	
		6500	DbL	16 OD	94	83	49
				16 OD	110	94	49
				19 OD	114	95	49

NOTE: Colorbond® and Galvabond® are registered trademarks of BlueScope.

Table continues over page

3.2.2 PUNCHED RAIL CONT...

MILD STEEL GALAVABOND®				HOLE DIMENSIONS (mm)			
Section	Gauge	Lengths	Punch profile	Size	Centres	Gap	Pack Qty
38X25.4	1.6	5000	Sgl	19 OD	110	91	70
			Dbl	19 OD	110	91	70
		6100	Sgl	16 OD	110	94	70
		6120	Sgl	19 OD	99	80	70
40X40	1.6	5300	Dbl	19 OD	123	104	36
		6500	Sgl	19 OD	123	104	36
			Dbl	19 OD	123	104	36
40X40	1.6	5300	Sgl	20X20	119	99	36
				25X25	123	98	36
			Dbl	20X20	119	99	36
		25X25		123	98	36	
		6500	Sgl	20X20	119	99	36
				25X25	123	98	36
	Dbl		20X20	119	99	36	
		25X25	123	98	36		
	2.0	5300	Dbl	20X20	123	98	36






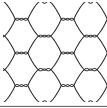

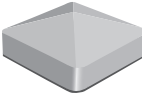




Examples of round and square punched rail.

3.2.3 GENERAL FENCING AND WIRE MESH




GENERAL FENCING & WIRE MESH		
Profiles	Product	Details
	Star Picket	450mm Black Ptd
		600mm Black Ptd
		900mm Black Ptd
		1350mm Black Ptd
		1650mm Black Ptd
		1800mm Black Ptd
		2400mm Black Ptd
		1600mm Galvanised
		1800mm Galvanised

3.2.3 GENERAL FENCING & WIRE MESH CONT...

GENERAL FENCING & WIRE MESH

Profiles	Product	Details
	Chain Wire	Galvanised 20m rolls.
	Hinged Joint Fencing	Light and heavy hinged joint fencing available in sizes 8/90/15, 8/90/30 & 8/115/15.
	Barbed Wire	1.57HT & 1.80HT.
	Wire Netting	Ranging from 13 x 0.56mm to 50 x 1mm Roll widths from 0.9 to 1.8m.
	Fence Wire	Ranging from 2.5mm to 4mm and varying roll lengths.
	Tie Wire	Ranging from 1.25mm to 4mm diameter and in varying roll lengths.
	Post Caps	Galvanised & plastic caps available in a range of sizes.
	Fence Joints & Fittings	Tee sizes range from 20mm to 80mm. Other fittings and clamps also available.
	Gates	Available in galvanised pipe and galvanised mesh. 1130mm high. Gate widths from 775 to 4180mm.
	Gate Fittings	Gate chain latch, fittings and farm gate packs are available.
	Fencing Accessories	Additional fencing accessories include post drivers, strainers, pliers plus many more.

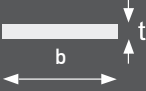
3.2.3 GENERAL FENCING & WIRE MESH CONT...

GENERAL FENCING & WIRE MESH		
Profiles	Product	Details
	Rural Mesh	Available in galvanised finish eg, cattle, sheep, snake mesh plus more.
	W Strap	Available in black and galvanised with a rolled safety edge.
	Netting Clips	16 X 2.0mm with 500 per pack.

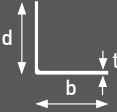
NOTE: For further information and detailed product specifications on the Fencing & Wire products available, refer to the Orrcon Steel Building & Accessories Product Catalogue.

3.3 GAL PROFILES

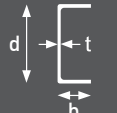
3.3.1 GAL FLATS

		SECTION: Gal Flats STANDARD: OSP-008 GRADE: C350L0 SURFACE FINISH: AS 4750-Z100			
Nominal Size - b (mm)	Nominal Thickness (mm)	Product Length (mtrs)	Nom. Linear Mass (Kg/m)	Nom. Metres / Tonne	Lengths per Pack
25	2.5	6.0	0.493	2027.88	90
50	2.5	6.0	0.986	1013.94	70
50	4.0	6.0	1.575	634.92	57
50	5.0	6.0	1.968	508.26	45
65	4.0	6.0	2.048	488.40	44
65	5.0	6.0	2.558	390.97	36
75	4.0	6.0	2.363	423.28	38
75	5.0	6.0	2.951	338.84	32
100	4.0	6.0	3.150	317.46	28
100	5.0	6.0	3.935	254.13	28
100	6.0	6.0	4.720	211.86	26

3.3.2 GAL ANGLES

 SECTION: Gal Angles STANDARD: OSP-008 GRADE: C350L0 SURFACE FINISH: AS 4750-Z100					
Nominal Size (mm) d x b	Nominal Thickness (mm)	Product Length (mtrs)	Nom. Linear Mass (Kg/m)	Nom. Metres / Tonne	Lengths per Pack
25x25	3.0	6.0	0.955	1047.24	90
30x30	2.5	6.0 & 9.0	1.025	975.26	80
40x40	2.5	6.0 & 9.0	1.420	704.29	60
40x40	4.0	6.0 & 9.0	2.116	472.68	39
45x45	2.5	6.0 & 9.0	1.617	618.38	54
45x45	4.0	6.0 & 9.0	2.431	411.42	36
50x50	2.5	6.0 & 9.0	1.814	551.15	33
50x50	3.0	6.0 & 9.0	2.137	467.86	33
50x50	4.0	6.0 & 9.0	2.746	364.22	27
50x50	5.0	6.0 & 9.0	3.303	302.73	24
65x65	4.0	6.0 & 9.0	3.691	270.96	22
65x65	5.0	6.0 & 9.0	4.484	223.02	22
75x75	4.0	6.0 & 9.0	4.321	231.45	22
75x75	5.0	6.0 & 9.0	5.271	189.72	22
100x100	6.0	6.0 & 9.0	8.531	117.23	16
75x50	4.0	6.0 & 9.0	3.533	283.04	22
75x50	5.0	6.0 & 9.0	4.287	233.26	22

3.3.3 GAL CHANNELS

 SECTION: Gal Channels STANDARD: OSP-008 GRADE: C350L0 SURFACE FINISH: AS 4750-Z100					
Nominal Size (mm) d x b	Nominal Thickness (mm)	Product Length (mtrs)	Nom. Linear Mass (Kg/m)	Nom. Metres / Tonne	Lengths per Pack
75 x 40	4.0	6.0 & 9.0	4.074	245.48	18
100 x 50	4.0	6.0 & 9.0	5.491	182.11	18
125 x 65	4.0	6.0 & 9.0	7.224	138.43	18

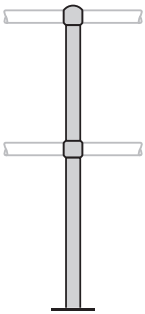
NOTE:

- » Not all products are available at all locations. Please contact your Orrcon Steel representative for availability.
- » An alternative Gal profile surface finish specification is available on request.

3.4 INDUSTRIAL ACCESS SYSTEMS AND COMPONENTS

INDUSTRIAL ACCESS SYSTEMS - STANCHIONS

Description	Unit
Stanchion platform corner galvanised	Ea
Stanchion platform (DOS0) galvanised	Ea
Stanchion platform mount galvanised	Ea
Stanchion side offset galvanised	Ea
Stanchion (S DLS0) galvanised	Ea
Stanchion (S DR50) galvanised	Ea



CLOSURES & BENDS

Description	Unit
32NB horizontal closure galvanised	Ea
32NB 90 deg bend (hand rail)	Ea
25NB 90 deg bend (knee rail)	Ea

STAIR TREADS & KICK BRACKETS

Description	Unit
Stair tread bolt-in galvanised 275 x 750mm	Ea
Grating saddle clips galvanised	Ea
Kick plate brackets galvanised	Ea
Kick plate brackets black	Ea
Abrasive nosing 730mm (yellow)	Per Metre

3.5 REINFORCING PRODUCTS

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).

REINFORCING MESH AS/NZS 4671

Description	Standard Unit	Typical Size (mm)	Weight Per Sheet (kg)
SL81	Sheet	6.0 x 2.4	105
SL52	Sheet	6.0 x 2.4	11
SL52H	Half Sheet	3.0 x 2.4	11
SL62	Sheet	6.0 x 2.4	33
SL62H	Half Sheet	3.0 x 2.4	16
SL72	Sheet	6.0 x 2.4	40
SL72H	Half Sheet	3.0 x 2.4	20
SL82	Sheet	6.0 x 2.4	52
SL92	Sheet	6.0 x 2.4	65
SL102	Sheet	6.0 x 2.4	80
RL718	Sheet	6.0 x 2.4	68
RL818	Sheet	6.0 x 2.4	79
RL918	Sheet	6.0 x 2.4	93
RL1018	Sheet	6.0 x 2.4	109
RL1118	Sheet	6.0 x 2.4	131
RL1218	Sheet	6.0 x 2.4	157

NOTE:

Product designation example - RL718

- » R (Rectangular), L (Class L - low carbon), 7 (long wire nominal diameter), 1 (100mm long wire pitch spacing), 8 (cross wire nominal diameter).
- » Cross wire pitch spacing is always 200mm for rectangular mesh.

Product designation example - SL82

- » S (Square), L (Class L - low carbon), 8 (long & cross wire nominal diameter), 2 (200mm long & cross wire pitch spacing) H - this defines a half sheet.

3.5 REINFORCING PRODUCTS CONT...

TRENCH MESH AS/NZS 4671			
Description	Lengths (m)	Width (m)	Weight Per Sheet (kg)
3 Bar 200 x 8mm	6.0	0.2	7
3 Bar 200 x 11mm	6.0	0.2	13
4 Bar 300 x 11mm	6.0	0.3	9
4 Bar 300 x 8mm	6.0	0.3	18
5 Bar 400 x 11mm	6.0	0.4	11
5 Bar 400 x 8mm	6.0	0.4	22

WELDED MESH Galvanised			
Description	Lengths (m)	Width (m)	Weight Per Sheet (kg)
25 x 25 x 2.5mm	1.8	1.2	7
25 x 25 x 2.5mm	2.0	1.2	8
25 x 25 x 2.5mm	2.4	1.2	9
25 x 25 x 2.5mm	3.0	2.4	23
50 x 25 x 2.5mm	2.0	1.2	6
50 x 25 x 3.15mm	2.0	1.2	9
50 x 25 x 3.15mm	3.0	2.4	27
50 x 50 x 3.15mm	2.4	1.2	11
50 x 50 x 3.5mm	2.4	1.2	12
50 x 50 x 4.0mm	2.0	1.2	10
50 x 50 x 4.0mm	2.4	1.2	12
50 x 50 x 4.0mm	3.0	2.4	29
75 x 50 x 2.5mm	1.8	2.0	9
75 x 50 x 3.0mm	2.4	1.2	9
75 x 50 x 3.5mm	2.4	1.2	10
75 x 50 x 4.0mm	2.0	1.2	8
75 x 50 x 4.0mm	2.4	1.2	10
75 x 50 x 4.0mm	3.0	2.4	24
75 x 50 x 5.0mm	3.0	2.4	38
100 x 100 x 4.0mm	2.0	1.2	5
100 x 100 x 4.0mm	2.4	1.2	6
100 x 100 x 5.0mm	3.0	2.4	19

3.5 REINFORCING PRODUCTS CONT...

REINFORCING ACCESSORIES	
Description	Unit
125mm black rod ties	2000 per pack
150mm black rod ties	200 per pack
150mm black rod ties	2000 per pack
250mm galvanised rod ties	2000 per pack
300mm galvanised rod ties	2000 per pack
Bar chairs 50/65	200 per pack
12mm corner bar 600 x 600mm	Ea
12mm starter bar 1000 x 200mm	Ea
1.57mm black beltpak	95m
Aluminium reel for beltpak	Ea

3.6 BUILDING CONSUMABLE PRODUCTS

CONCRETE	
Description	Unit
Post Mix 20kg	20kg
Rapid Set Mix 20kg	20kg

CUTTING DISC	
Description	Unit
Disc metal cut off 100 x 1.0 x 16mm	Ea
Disc metal cut off 115 x 1.0 x 22mm	Ea
Disc metal cut off 125 x 1.0 x 22mm	Ea

RODS & WIRE	
Description	Unit
Mig wire 0.9mm (gasless)	5kg Pack
Welding rod 2.5mm 12g	2.5kg Pack
Welding rod 3.2mm 10g	2.5kg Pack

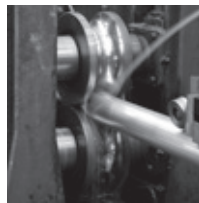
MASKS & GLOVES		
Profiles	Product	Details
	Masks	A range of welding masks available
	Gloves	A range of welding gloves available

METAL PAINT PROTECTION	
Description	Unit
Liquid ALLGAL® paint - aerosol	400g
Liquid ALLGAL® - drum	20L

3.7 BUILDING ACCESSORIES & TOOLS

ACCESSORIES & TOOLS		
Profiles	Product	Details
	General purpose brackets & base plates	A variety of different size brackets & base plates are available.
	Safety accessories	A selection of safety tapes are available.
	Load restraints	A range of ratchet assemblies, chains, & ropes are available.
	Trade tools	A variety of trade tools are available ranging from bolt cutters, pliers, post drivers and more.

NOTE: For further information and detailed product specifications on the range of building accessories & tools available, refer to the **Orrcon Steel Building & Accessories Product Catalogue.**



General Information

we'll see it through



4.1 TEST CERTIFICATES & LETTERS OF COMPLIANCE

Orrcon Steel manufacture and source a range of structural steel products which comply with any of the following Australian Standards:

- » **AS/NZS 1163 Cold-Formed Structural Steel Hollow Sections.**
- » **AS/NZS 3679.1 Structural Steel, Part 1 Hot Rolled Bars and Sections.**
- » **AS/NZS 3678 Structural Steel Hot Rolled Plates, Floor plates and Slabs.**

Test Certificates (TC's) and Letters of Compliance (LOC's) are available for customers and end-users of Orrcon Steel manufactured products on request. LOC's list details of the products supplied and may also provide indicative properties. LOC's are issued on an Orrcon Steel letterhead and are signed by a responsible officer. TC's detail standard and grade specification details along with the results of chemical, mechanical and physical property analysis conducted on representative samples from the supplied batch of product. They provide sufficient product identification and technical detail to enable independent verification of batch compliance to the relevant standard. These documents are developed in full compliance with the appropriate standard and are generated as email ready Adobe PDF documents.

If requirements for the supply of TC or LOC documents are not specified at the point of order it is the customers responsibility to provide suitable product traceability details as requested by Orrcon Steel such as pack numbers, tube marking and heat or coil numbers. Orrcon Steel cannot be held responsible for product traceability once it has been delivered to a customer's site. Orrcon Steel utilise National Association of Testing Authorities (NATA) accredited laboratories to determine the chemistry and mechanical properties of its manufactured product range. NATA is an International Laboratory Accreditation Cooperation (ILAC) (MRA) signatory and the relevant details for the test laboratories are noted on test certificates.

4.2 PACKAGING, HANDLING AND STORAGE

Storage and Transport

Store all steel and steel related products in a stable configuration. Avoid contact with corrosive agents such as acids, alkalis and salts. Transport in accordance with Government Regulations and always ensure load is secure. With zinc coated, aluminised or ALLGAL® products, attention should be paid to the conditions of transport and storage to avoid the possibility of damage or wet-storage stain. A corrosion known as white rust can occur on freshly zinc coated products that are transported or stored under damp and/or badly ventilated conditions. The corrosion is frequently superficial despite it's bulkiness. It may be unattractive, but is not usually detrimental to the other properties of the coating.

4

The packed product should be kept under roof in clean, dry and ventilated conditions. This is especially important for products in the lower size range as their bundle configuration restricts natural ventilation. Storage under covers which restrict ventilation (e.g. tarps) is not recommended. If products have to be stored outside, then the packs should be broken up and stacked with a wooden spacer between each layer. The stack should be on an incline so that any water can run off the product.

4.2 PACKAGING, HANDLING AND STORAGE CONT...

Products should never be stored in contact with cardboard or paper products, cinders, clinkers, unseasoned timbers or harmful chemicals. White rust can be removed with a high pressure water cleaner, scrubbing brush or soft scouring pad. Kerosene is also a good agent for the removal of white rust.

If the zinc or ALLGAL® coating is subject to excessively rough treatment and some damage does occur, the area should be cleaned and touched up with one of the following coatings:

- » **Organic zinc-rich primer; or**
- » **In-organic zinc silicate paint; or**
- » **Zinc metal spray**

These coatings should be applied in accordance with manufacturer recommendations.

4.3 MATERIAL SAFETY DATA INFORMATION

Electric Resistance Welding (ERW) Tube Identification

STRUCTURAL TUBE - Rectangular Hollow Section (RHS), Square Hollow Section (SHS) and Circular Hollow Section (CHS).

Use: Building structures, major sporting arena's, mining & industry infrastructure etc.

PRECISION TUBE - Rectangular, Square, Round and oval.

Use: Steel fabricating, fencing, furniture, exhausts etc.

Physical Description / Properties	
Appearance: Structural	Blue (Primed), Red (Primed), Black (Primed), Silver (Electrogalvanised) and NOPC (no oil, paint or coating).
Appearance: Precision	Dull Grey and Silver (zinc and aluminium coated)
Melting Point	Base Metal 1535 °C
Fire and Explosive Hazard	Steel products (primed or oiled) in the solid state present no fire or explosive hazard. Under normal fire conditions decomposition of the metal will not occur, but deformation of the steel member may occur. Irritant fumes may be produced during a fire situation. Hazardous decomposition products may occur on heating or burning of the primer giving Carbon Dioxide, Carbon Monoxide, soot and smoke.

Health Hazard Information

Steel products under normal conditions do not present an inhalation, ingestion or contact health hazard. However, operations such as burning, welding, sawing, brazing, grinding etc., which result in the temperature of the product rising above the melting point of the steel or surface coating, may present health hazards. Welding fume tests performed show that no organic compounds are evolved when welding painted Orrcon Steel tube & pipe. The fumes generated are less than 5mg/m² which meet ACGIH threshold limit values.

4.3 MATERIAL SAFETY DATA INFORMATION CONT...

Fuming

Zinc coated, aluminum coated and ALLGAL® coated product are designed so that weld fume levels are well below the accepted Short Term Exposure Limits (STEL) of 10mg/m², when normal welding practices are used.

FIRE/EXPLOSION HAZARD: irritant fumes may be produced during a fire situation. Decomposition products include oxides of Carbon.

Effects Of Over-Exposure

The major exposure hazard is the inhalation of fumes or dust. Chronic inhalation of high concentration Iron Oxide fumes or dusts may lead to Benign Pneumoconiosis (Siderosis). Inhalation of high concentration of Ferric Oxide may increase the risk of lung cancer in persons exposed to pulmonary carcinogens.

Precautions For Use

Metal products are stable under normal conditions of use, storage, handling and transport and require no special precautions. When performing normal metalworking operations, eye and respiratory protection should be used.

Welding

The following consumables are recommended by AS 1544.1 when welding welded tube sections:

- » **Manual metal-arc (MMAW) E41XX, E48XX**
- » **Gas metal-arc (MIG) (GMAW) W50x**

Welding ALLGAL® is similar to welding painted tube & pipe. Further information on welding practices is available from the Welding Technology Institute of Australia (WTIA). www.wtia.com.au

First Aid

- Swallowed:** Not applicable.
- Eye:** Holding eyelids open, flood with water for at least 15 minutes. Seek medical attention urgently.
- Skin:** For lacerations, clean and dress wound. Apply pressure bandage and elevate injured area. Obtain medical aid urgently. For burns, apply copious quantities of cool water. Do not apply creams. Seek medical attention urgently. Remove from contaminated air. Maintain breathing with artificial respiration if necessary. Seek medical attention urgently.
- Inhaled:** Refer to section on inhalation hazards for welding operations involving zinc coated steel.
- Advice to Doctor:** Refer to section on inhalation hazards for welding operations involving zinc coated steel.

For a safety sheet and further information please contact Orrcon Steel.

NOTE: This information is taken from sources believed to be accurate and correct. Orrcon Steel makes no warranty as to the correctness or the sufficiency of the information supplied. Furthermore no warranty is given or implied that under certain conditions additional protective measures may be required.

4.3 MATERIAL SAFETY DATA INFORMATION CONT...

Spills and Disposal

Recycle scrap steel or dispose of it at an approved site.

FIRE/EXPLOSION HAZARD: Irritant fumes may be produced during a fire situation. Decomposition products include oxides of Carbon.

4.4 GLOSSARY OF TERMS

Tube & Pipe (Standard)

ACMS	Aluminium Coated Mild Steel. Tube rolled from hot dipped aluminium coated steel strip, with aluminium coating both sides. Typical applications include heat resistant applications such as automotive exhausts and domestic gas heaters.
BMT	Base Metal Thickness. The base thickness of the steel material without any coating applied to it.
L0	L0 is the impact property designation AS/NZS 1163. L refers to guaranteed impact properties, 0 is the low temperature impact test at 0 degrees. This is used to define product suitability for low temperature applications. Refer to section 1.7.1 of this catalogue for the relationship with steel grades.
ERW	Electric Resistance Welding.
HRSB	Hot Rolled Semi Bright. Tube has typical steel grey appearance, surface is suitable for general applications and is ideal for paint or powder coated processes. Typical applications include racking, shelving, fitness equipment, cargo barriers etc.
HTGB	Hi Tensile Galvabond®. High strength tube rolled from hot dipped zinc coated steel strip with zinc coating both sides. Typical applications include outdoor tubular products where greater strength and reduced weight is required.
MAXI-TUBE®	A zinc-alloy coated steel section that shows high corrosion resistance in many aggressive environments.
MDMT	Material Design Minimum Temperature.
MSBL	Mild Steel Black. Tube has a black, mill finish. Ideal for hot dipped galvanised applications such as signs or fence posts.
MSBR	Mild Steel Bright. Tube has a bright finish and is typically used in the manufacture of products that require a higher grade surface finish such as electroplating or similar critical finish applications. Typical applications include domestic & commercial furniture, chrome plated lawn mower handles etc. This material is seldom used given cost and low demand.
MSGB	Mild Steel Galvabond®. Tube rolled from hot dipped zinc coated steel strip, with zinc coating both sides. Typical applications include exterior use such as tubular fencing, outdoor furniture and promotional signage.
NB	Nominal Bore. Refers to a set of standard pipe sizes (designated NB) with a nominal inner pipe diameter in millimetres. Equivalent to the European DN (diameter nominal) and the North American NPS, Nominal Pipe Size. Actual dimensions vary due to metric designations of an imperial pipe size.
NOPC	No oil or paint coating.

4.4 GLOSSARY OF TERMS CONT...

- PICKLED STEEL** Steel that has gone through a process of pickling which is a surface treatment used to remove impurities, such as stains, inorganic contaminants, rust or scale.
- SEMB** Semi Bright. Tube has typical steel grey appearance and has a suitable surface for general applications. Ideal where demanding and consistent properties are required. Typical applications include domestic and commercial furniture, exhaust systems, shelving etc.

Hot Rolled Structural & Plate (Standard)

- ANGLE LINE** A machine tool that uses a conveyor to move an angle section into position, then drills holes. The drill moves but the angle is static.
- ASSEMBLY & SHAFT DRAWINGS** Drawings where overall dimensions of the assembled object are usually indicated, but the detailed dimension for manufacture is excluded.
- BAND SAW** A band saw is a machine which uses a blade consisting of a continuous band of metal with teeth along one edge to cut steel sections.
- BEAM LINE** An automatic structural steel processing system. This includes cutting, drilling, coping, and bevelling processes. The components in the line include band saws and drilling machines.
- BEARING PLATE** A flat steel plate used under the end of a wall-bearing beam to distribute the load over a broader area.
- BISPLATE® & HARDOX®** Brand names for wear plate. A high strength, wear resistant, and armour grade steel plate. It is a quench and tempered plate.
- BORING** In machining, boring is the process of enlarging a hole that has already been drilled or cast, by means of a single-point cutting tool. Boring is used to achieve greater accuracy of the diameter of a hole, and can be used to cut a tapered hole.
- BROACHING** Broaching is a machining process that uses a toothed tool, called a broach, to remove material. The two main types of broaching are linear and rotary.
- CHECKER / FLOOR PLATE** A type of slip-resistant floor plate with a distinctive raised pattern that is used for walkways and platforms.
- COPING** Coping a beam assures it can be fixed to an intersecting column, or another beam, by eliminating a part that could be an interference. Machinery builders developed a means whereby the beam is rolled into a "cutting box" and this is done in a beam line.
- GUSSET** A steel plate used to connect two or more structural members in the same plane. Often used to strengthen the section beneath the bottom flange.
- HAUNCH** Also known as a Knee. The deepened portion of a column or rafter, designed to accommodate the high stress where column and rafter intersect and connect.
- HOT ROLLED** A steel section that is shaped by rollers in a semi-molten state.
- FAST CAM** A software system for fabrication of steel elements and all types of processes that go with it. It includes an integrated drawing editor and is fully compatible with CAD and other industry standard files. A quoting system is also built-in to this.
- FITTINGS** The term also used to describe cleats and items that are welded onto beams and columns.

4.4 GLOSSARY OF TERMS CONT...


LASER CUTTING	A process that cuts material with the heat obtained by directing a laser beam against a metal surface.
PFC	Parallel Flange Channel.
PLASMA CUTTING	Plasma cutters work by sending an electric arc through a gas that is passing through a constricted opening. As the metal being cut is part of the circuit, the electrical conductivity of the plasma causes the arc to transfer to the work.
PLATE PROFILE CUTTING BED	A platform used to support the plate material whilst cutting with the oxy, plasma, or laser cutting machine.
MERCHANT BAR	A steel section that is hot rolled from a billet into a round, square, hexagonal or other shape.
SCALE	Layers of iron oxide formed on the surface of hot steel when oxygen from the atmosphere combines with iron from the steel. Also referred to as Mill Scale.
SHOP DRAWINGS	The drawings used to manufacture the steel components for a structure.
UA	Unequal Angle section
UB	Universal Beam. The section is used as a beam and is an I shape section. A structural member which is ordinarily subject to bending and is usually a horizontal member carrying vertical loads.
UC	Universal Column. The section is used as a column and is a H shape section.
ULTIMATE TENSILE STRENGTH	The maximum stress a material can withstand before the cross section of the product starts to fracture or fail.
WEB STIFFENER	A plate that is welded in between the bottom and top flanges to create stability and strength for the web of the section.
YIELD STRESS / STRENGTH	Stress / Strength measurement at which steel first exhibits plastic deformation. Beyond this point it does not return to its original form after the stress has been removed.
YIELD POINT	The stress at which material permanently deforms. This is the same stress as the yield strength and is another way of describing it.
250 MPa YIELD (PLATE)	Plate with yield strength grade \geq 250 MPa and tensile strength \geq 410 MPa.
300 MPa YIELD (HR PRODUCT)	Hot Rolled Structural Product with yield strength grade \geq 300 MPa and tensile strength \geq 440 MPa.
350 MPa YIELD (PLATE)	Plate with yield strength grade \geq 350 MPa and tensile strength \geq 450 MPa.

DISCLAIMER

The information and advice contained in this document is of a general nature only. You should always obtain specialist advice to ensure that the materials, approach and techniques referred to in this document meet your specific requirements. Orrcon Steel disclaims all liability and responsibility for any loss or damage, direct or indirect, which may be suffered by any person acting in reliance on anything contained in or omitted from this document.


4.5 END CODING CHARTS


4.5.1 END CODING CHART - HOT ROLLED STRUCTURAL

 Universal Beams (UB)		
Depth (mm)	Weight (kg/mtr)	Colour
150	14.0	Blue
150	18.0	Purple
180	16.1	Blue
180	18.1	Purple
180	22.2	Red
200	18.2	White
200	22.3	Blue
200	25.4	Purple
200	29.8	Red
250	25.7	Blue
250	31.4	Purple
250	37.3	Red
310	32.0	Blue
310	40.4	Purple
310	46.2	Red
360	44.7	Blue
360	50.7	Purple
360	56.7	Red
410	53.7	Blue
410	59.7	Purple
460	67.1	Blue
460	74.6	Purple
460	82.1	Red
530	82.0	Blue
530	92.4	Purple
610	101.0	Blue
610	113.0	Purple
610	125.0	Red

 Universal Columns (UC)		
Depth (mm)	Weight (kg/mtr)	Colour
100	14.8	Blue
150	23.4	Blue
150	30.0	Purple
150	37.2	Red
200	46.2	Blue
200	52.2	Purple
200	59.5	Red
250	72.9	Blue
250	89.5	Purple
310	96.8	White
310	118.0	Blue
310	137.0	Purple
310	158.0	Red

 Parallel Flange Channels (PFC)	
Size (mm)	Colour
75 x 40	Blue
100 x 50	Purple
125 x 65	Red
150 x 75	Blue
180 x 75	Purple
200 x 75	Red
230 x 75	White
250 x 90	Orange
300 x 90	Yellow
380 x 100	White

 Round & D-Bar	
Diameter (mm)	Colour
6.0	White
8.0	Red
10.0	Yellow
12.0	Pink
14.0	Orange
16.0	Grey
18.0	Purple
20.0	Green
24.0	Pink
27.0	Blue
30.0	Yellow
33.0	Grey
36.0	Red
39.0	Orange

 Square Bar	
Thickness (mm)	Colour
10.0	Yellow
12.0	Pink
16.0	Grey
20.0	Green
25.0	Purple
32.0	Orange
40.0	Yellow
50.0	Green

4.5.1 END CODING CHART - HOT ROLLED STRUCTURAL CONT...

Sheet – Flat Plate & Plate	
Thickness (mm)	Colour
0.55	Grey
0.75	Green
0.95	Orange
1.20	White
1.60	Purple
2.00	Yellow
2.10	Grey
2.40	Pink
3.0	Blue
4.0	Green
5.0	Orange
6.0	White
8.0	Red
10.0	Yellow
12.0	Pink
16.0	Grey
20.0	Green
25.0	Purple
28.0	Blue
32.0	Orange
36.0	Red
40.0	Yellow
45.0	Grey
50.0	Green

Flat Bar & Angle	
Thickness (mm)	Colour
2.0	Yellow
3.0	Blue
4.0	Green
5.0	Orange
6.0	White
8.0	Red
10.0	Yellow
12.0	Pink
14.0	Orange
16.0	Grey
20.0	Green
25.0	Purple

NOTE:

- » Not all products are available at all locations. Please contact your local Orrcon Steel branch for availability of products.
- » 350 Grade plate is identified with a red mark on the product.

4.5.2 END CODING CHART - TUBE & PIPE

Square (SHS)		
Size (mm)	Thickness (mm)	Colour
20x20	1.6	Purple
25x25	1.6	Purple
30x30	1.6	Purple
35x35	1.6	Purple
40x40	1.6	Purple
50x50	1.6	Purple
65x65	1.6	Purple
25x25	2.0	Yellow
30x30	2.0	Yellow
35x35	2.0	Yellow
40x40	2.0	Yellow
50x50	2.0	Yellow
65x65	2.0	Yellow
75x75	2.0	Yellow
89x89	2.0	Yellow
100x100	2.0	Yellow
25x25	2.5	Pink
30x30	2.5	Pink
35x35	2.5	Pink
40x40	2.5	Pink
50x50	2.5	Pink
65x65	2.5	Pink
75x75	2.5	Pink
89x89	2.5	Pink
100x100	2.5	Pink
25x25	3.0	Blue
30x30	3.0	Blue
35x35	3.0	Blue
40x40	3.0	Blue
50x50	3.0	Blue
65x65	3.0	Blue
75x75	3.0	Blue
100x100	3.0	Blue
75x75	3.5	Grey
89x89	3.5	Grey
40x40	4.0	Green
50x50	4.0	Green
65x65	4.0	Green
75x75	4.0	Green
100x100	4.0	Green
125x125	4.0	Green
50x50	5.0	Orange
65x65	5.0	Orange
75x75	5.0	Orange
89x89	5.0	Orange

Square (SHS)		
Size (mm)	Thickness (mm)	Colour
100x100	5.0	Orange
125x125	5.0	Orange
150x150	5.0	Orange
200x200	5.0	Orange
50x50	6.0	White
65x65	6.0	White
75x75	6.0	White
89x89	6.0	White
100x100	6.0	White
125x125	6.0	White
150x150	6.0	White
200x200	6.0	White
250x250	6.0	White
300x300	6.0	White
100x100	9.0	Purple
125x125	9.0	Purple
150x150	9.0	Purple
200x200	9.0	Purple
250x250	9.0	Purple
300x300	9.0	Purple
350x350	9.0	Purple
400x400	9.0	Purple
200x200	12.5	N/A
250x250	12.5	N/A
300x300	12.5	N/A
350x350	12.5	N/A
400x400	12.5	N/A
200x200	16.0	N/A
250x250	16.0	N/A
300x300	16.0	N/A
350x350	16.0	N/A
400x400	16.0	N/A

Rectangular (RHS)		
Size (mm)	Thickness (mm)	Colour
50x25	1.6	Purple
65x35	1.6	Purple
75x25	1.6	Purple
75x50	1.6	Purple
100x50	1.6	Purple
38x25*	1.6	Purple
50x20*	1.6	Purple

Rectangular (RHS)		
Size (mm)	Thickness (mm)	Colour
76x38*	1.6	Purple
80x40*	1.6	Purple
50x25	2.0	Yellow
65x35	2.0	Yellow
75x25	2.0	Yellow
75x50	2.0	Yellow
100x50	2.0	Yellow
125x75	2.0	Yellow
150x50	2.0	Yellow
38x25*	2.0	Yellow
50x20*	2.0	Yellow
50x30*	2.0	Yellow
50x40*	2.0	Yellow
76x38*	2.0	Yellow
127x51*	2.0	Yellow
75x50	2.3	Silver
50x25	2.5	Pink
65x35	2.5	Pink
75x25	2.5	Pink
75x50	2.5	Pink
100x50	2.5	Pink
125x75	2.5	Pink
150x50	2.5	Pink
38x25*	2.5	Pink
50x20*	2.5	Pink
50x30*	2.5	Pink
76x38*	2.5	Pink
80x40*	2.5	Pink
127x51*	2.5	Pink
50x25	3.0	Blue
65x35	3.0	Blue
75x50	3.0	Blue
100x50	3.0	Blue
125x75	3.0	Blue
150x50	3.0	Blue
150x100	3.0	Blue
50x20*	3.0	Blue
76x38*	3.0	Blue
127x51*	3.0	Blue
100x50	3.5	Grey
102x76*	3.5	Grey
127x51*	3.5	Grey
152x76*	3.5	Grey
65x35	4.0	Green
75x50	4.0	Green

Table continues over page

4.5.2 END CODING CHART - TUBE & PIPE CONT...

Rectangular (RHS)		
Size (mm)	Thickness (mm)	Colour
100x50	4.0	Green
125x75	4.0	Green
150x50	4.0	Green
150x100	4.0	Green
200x100	4.0	Green
76x38*	4.0	Green
127x51*	4.0	Green
75x50	5.0	Orange
100x50	5.0	Orange
125x75	5.0	Orange
150x50	5.0	Orange
150x100	5.0	Orange
200x100	5.0	Orange
250x150	5.0	Orange
102x76*	5.0	Orange
127x51*	5.0	Orange
152x76*	5.0	Orange
75x50	6.0	White
100x50	6.0	White
125x75	6.0	White
150x50	6.0	White
150x100	6.0	White
200x100	6.0	White
250x150	6.0	White
300x200	6.0	White
400x200	6.0	White
102x76*	6.0	White
127x51*	6.0	White
152x76*	6.0	White
150x100	9.0	Purple
200x100	9.0	Purple
250x150	9.0	Purple
300x200	9.0	Purple
400x200	9.0	Purple
400x300	9.0	Purple
250x150	12.5	N/A
300x200	12.5	N/A
350x250	12.5	N/A
400x200	12.5	N/A
400x300	12.5	N/A
250x150	16.0	N/A

Rectangular (RHS)		
Size (mm)	Thickness (mm)	Colour
300x200	16.0	N/A
350x250	16.0	N/A
400x300	16.0	N/A

Yard Rail		
Size (mm)	Thickness (mm)	Colour
59x30	1.6	Purple
59x30	2.0	Yellow
97x42	2.0	Yellow
115x42	2.0	Yellow
62x50*	2.0	Yellow
80x61*	2.0	Yellow
115x42	2.3	Silver
97x42	2.5	Pink
62x50*	2.5	Pink
80x61*	2.5	Pink

Pipe (CHS)		
Size (mm)	Thickness (mm)	Colour
25.4 NB	2.0	Green
20 NB / 26.9 OD	2.0	Green
25 NB / 33.7 OD	2.0	Green
32 NB / 42.4 OD	2.0	Green
20 NB / 26.9 OD	2.3	Yellow
40 NB / 48.3 OD	2.3	Green
50 NB / 60.3 OD	2.3	Green
65 NB / 76.1 OD	2.3	Green
20 NB / 26.9 OD	2.6	Blue
25 NB / 33.7 OD	2.6	Yellow
32 NB / 42.4 OD	2.6	Yellow
80 NB / 88.9 OD	2.6	Green
90 NB / 101.6 OD	2.6	Green
100 NB / 114.3 OD	2.6	N/A
40 NB / 48.3 OD	2.9	Yellow
50 NB / 60.3 OD	2.9	Yellow
125 NB / 139.7 OD	3.0	Green

Pipe (CHS)		
Size (mm)	Thickness (mm)	Colour
150 NB / 165.1 OD	3.0	Green
20 NB / 26.9 OD	3.2	N/A
25 NB / 33.7 OD	3.2	Blue
32 NB / 42.4 OD	3.2	Blue
40 NB / 48.3 OD	3.2	Blue
65 NB / 76.1 OD	3.2	Yellow
80 NB / 88.9 OD	3.2	Yellow
90 NB / 101.6 OD	3.2	Yellow
100 NB / 114.3 OD	3.2	Green
125 NB / 139.7 OD	3.5	Yellow
150 NB / 165.1 OD	3.5	Yellow
50 NB / 60.3 OD	3.6	Blue
65 NB / 76.1 OD	3.6	Blue
100 NB / 114.3 OD	3.6	Yellow
25 NB / 33.7 OD	4.0	Red
32 NB / 42.4 OD	4.0	Red
40 NB / 48.3 OD	4.0	Red
80 NB / 88.9 OD	4.0	Blue
90 NB / 101.6 OD	4.0	Blue
50 NB / 60.3 OD	4.5	Red
65 NB / 76.1 OD	4.5	Red
100 NB / 114.3 OD	4.5	Blue
80 NB / 88.9 OD	5.0	Red
90 NB / 101.6 OD	5.0	Red
125 NB / 139.7 OD	5.0	Blue
150 NB / 165.1 OD	5.0	Blue
100 NB / 114.3 OD	5.4	Red
125 NB / 139.7 OD	5.4	Red
150 NB / 165.1 OD	5.4	Red

LEGEND		
SHS, RHS & Rails	Pipe (CHS)	
Purple	1.6	Green
Yellow	2.0	Extra Light
Silver	2.3	Light
Pink	2.5	Blue
Blue	3.0	Medium
Grey	3.5	Red
Green	4.0	Heavy
Orange	5.0	
White	6.0	
Purple	9.0	

NOTE:

- » Broadspec® Pipe is not listed and has no end code.
- » Products listed without an end code have no designated code.
- » Other sizes available subject to enquiry.
- » + Non-standard rectangular (RHS).
- » * Flat sided round (post).

CONTACT US

CALL ORRCON STEEL

1300 ORRCON (1300 677 266)

www.orrconsteel.com.au

 facebook.com/OrrconSteel

 linkedin.com/company/orrcon-steel

HEAD OFFICE

121 Evans Rd,
SALISBURY QLD 4107
Tel: 07 3274 0500
Fax: 07 3274 0517
E: info@orrcon.com.au

QLD

92 Holt St,
EAGLE FARM QLD 4009
Tel: 07 3633 8200 | Fax: 07 3633 8220
E: salesqld@orrcon.com.au

100 Enterprise St, (via Activity St)
BUNDBERG QLD 4670
Tel: 07 4153 3733 | Fax: 07 4154 3433
E: salesbundy@orrcon.com.au

75 Aumuller St,
CAIRNS QLD 4870
Tel: 07 4035 5155 | Fax: 07 4035 5199
E: salescairns@orrcon.com.au

36 Carrington Rd,
TOOWOOMBA QLD 4350
Tel: 07 4699 9666 | Fax: 07 4699 9699
E: salestwba@orrcon.com.au

17 Leyland St,
TOWNSVILLE QLD 4814
Tel: 07 4779 1888 | Fax: 07 4779 1022
E: salestville@orrcon.com.au

NSW

153 Glendenning Rd,
GLENDENNING NSW 2761
Tel: 02 9675 9555 | Fax: 02 9675 9500
E: salesnsw@orrcon.com.au

SA

123-131 Bedford St,
GILLMAN SA 5013
Tel: 08 8245 5900 | Fax: 08 8245 5910
E: salessa@orrcon.com.au

VIC

5 Cambria Rd (Cnr Bridge Rd),
KEYSBOROUGH VIC 3173
Tel: 03 9238 2544 | Fax: 03 9238 2505
E: salesvic@orrcon.com.au

WA

25 Cocos Dr,
BIBRA LAKE WA 6163
Tel: 08 9437 7111 | Fax: 08 9437 7199
E: saleswa@orrcon.com.au

Lot 557 Valencia Way,
MADDINGTON WA 6109
Tel: 08 9452 1807 | Fax: 08 9452 1861
E: salesmaddington@orrcon.com.au

12 Denning Way,
MALAGA WA 6090
Tel: 08 9249 5592 | Fax: 08 9248 5191
E: salesmalaga@orrcon.com.au

22 Fitzgerald Rd,
MANDURAH WA 6210
Tel: 08 9582 6900 | Fax: 08 9582 6999
E: salesmandurah@orrcon.com.au



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