



Manufacturing

We'll see it through.

Structural Product Catalogue

**Square, Rectangular,
Round & Oval Tube**

October 2026

orrconmanufacturing.com.au

STRUCTURAL

About us.



Manufacturing

WHY CHOOSE US?

Orrcon Steel Manufacturing (OM) is a leading Australian manufacturer of Steel, Pipe & Tube. Our structural tubing is produced in Brisbane QLD and Wollongong NSW, our precision tubing is manufactured in O'Sullivan Beach SA. We supply our tubular products throughout Australia and export to New Zealand and South Pacific Islands.

As a business of BlueScope, Orrcon Steel Manufacturing 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 Manufacturing
- We'll see it through.**

OUR STEEL RANGE

Structural Tubular Steel

Orrcon Steel Manufacturing offers a wide range of Electric Resistance Welding (ERW) carbon steel structural tubulars.

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

Precision Tube

Orrcon Steel Manufacturing manufactures precision tube at our mill site in Adelaide. This mill produces square, rectangular, round and oval tube and can manufacture special shapes subject to enquiry. OM precision tube products are used across a variety of applications including fencing, furniture, automotive, heat exchange and agriculture.



SCAN TO
VIEW OUR
PRECISION
RANGE



We'll see it through.

More than a tag line to our Orrcon Steel Manufacturing brand

It is a statement that says a lot about our business and the people that work in it. Being part of our culture, it reflects our relationship both internally and externally.

Orrcon Steel Manufacturing employ over 250 people who use their steel industry knowledge and experience to produce and supply reliable steel products.

A majority of the coil supply comes from BlueScope. So when buying locally manufactured OM Pipe & Tube, you know you're buying quality Australian materials.

Orrcon Steel Manufacturing has a range of certifications and systems in place aimed to satisfy your compliance requirements. We can confidently supply traceability through to the mill rolling and original steel coils.

OM's hollow structural sections are certified by Australasian Certification Authority for Reinforcing and Structural Steels (ACRS).

We operate and maintain our own laboratory that is accredited by the National Association of Testing Authorities (NATA) for Mechanical and Chemical testing.

You can be sure of the quality of Australian made Orrcon Steel, knowing that it complies with Australian standards and regulations.

For further information

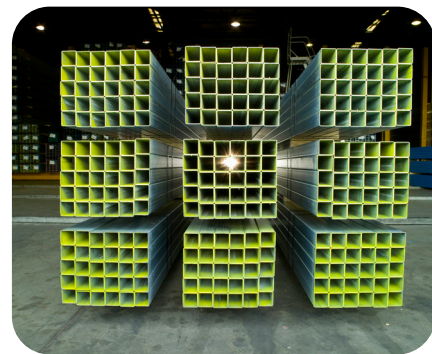
W : orrconmanufacturing.com.au

P : 1300 650 303

E : sales@orrcon.com.au

1.1.1 SQUARE HOLLOW SECTIONS (SHS)

t d b Section: Square (SHS) Standard: AS/NZS 1163 Grade: C350L0, C450L0 Surface Finish: SMARTCOTE® / ALLGAL® / ULTRA-SPEC GAL® / OILED / NOPC* StrucTube StrucTubeXT											
Size dxb (mm)	Nom. Thick (mm)	Surface Finish					Nom. Linear Mass (Kg/m)	Nom Mtre Tonne	Lengths / Pack 6500mm	Lengths / Pack 8000mm	Lengths / Pack 12000mm
6500mm Lengths Standard											
20 x 20	1.6	✓	✓	✓	✓	—	0.87	1146	100	-	-
25 x 25	1.6	✓	✓	✓	✓	—	1.12	890	100	-	-
	2.0	✓	✓	✓	✓	—	1.36	733	100	-	-
	2.5	✓	✓	✓	✓	—	1.64	610	100	-	-
	3.0	✓	✓	✓	✓	—	1.89	529	100	-	-
8000mm Lengths Standard											
30 x 30	1.6	✓	✓	✓	✓	—	1.38	727	-	100	-
	2.0	✓	✓	✓	✓	—	1.68	596	-	100	-
	2.5	✓	✓	✓	✓	—	2.03	492	-	100	-
	3.0	✓	✓	✓	✓	—	2.36	423	-	64	-
31.8x 31.8	1.6	✓	✓	✓	✓	—	1.465	683	-	81	-
	2.0	✓	✓	✓	✓	—	1.791	558	-	81	-
	2.5	✓	✓	✓	✓	—	2.174	460	-	64	-
	3.0	✓	✓	✓	✓	—	2.531	395	-	64	-
35 x 35	1.6	✓	✓	✓	✓	—	1.63	615	-	100	-
	2.0	✓	✓	✓	✓	—	1.99	502	-	100	-
	2.5	✓	✓	✓	✓	—	2.42	412	-	64	-
	3.0	✓	✓	✓	✓	—	2.83	353	-	64	-
40 x 40	1.6	✓	✓	✓	✓	✓	1.88	533	-	81	-
	2.0	✓	✓	✓	✓	✓	2.31	434	-	81	-
	2.5	✓	✓	✓	✓	—	2.82	355	-	64	-
	3.0	✓	✓	✓	✓	—	3.30	303	-	64	-
	4.0	✓	✓	—	✓	✓	4.09	244	-	49	-
50 x 50	1.6	✓	✓	✓	✓	✓	2.38	420	-	64	-
	2.0	✓	✓	✓	✓	✓	2.93	341	-	64	-
	2.5	✓	✓	✓	✓	✓	3.60	278	-	49	-
	3.0	✓	✓	✓	✓	✓	4.25	236	-	49	-
	4.0	✓	✓	—	✓	✓	5.35	187	-	36	-
	5.0	✓	✓	—	✓	—	6.39	156	-	30	-
51 x 51	6.0	✓	✓	—	✓	—	7.32	137	-	25	-
	4.0	✓	✓	—	✓	✓	5.47	183	-	36	-
	5.0	✓	✓	—	✓	—	6.55	153	-	30	-
8000mm & 12000mm Lengths Standard											
65 x 65	1.6	✓	✓	✓	✓	✓	3.13	319	-	49	49
	2.0	✓	✓	✓	✓	✓	3.88	258	-	42	42
	2.5	✓	✓	✓	✓	✓	4.78	209	-	42	42
	3.0	✓	✓	✓	✓	✓	5.66	177	-	36	36
	4.0	✓	✓	—	✓	✓	7.23	138	-	30	30
	5.0	✓	✓	—	✓	—	8.75	114	-	25	25
75 x 75	6.0	✓	✓	—	✓	—	10.15	99	-	20	20
	1.6	✓	✓	✓	✓	✓	3.64	275		30	30
	2.0	✓	✓	✓	✓	✓	4.50	222		30	30
	2.5	✓	✓	✓	✓	✓	5.56	180		30	30
	3.0	✓	✓	✓	✓	✓	6.60	152		30	30
	3.5	✓	✓	—	✓	✓	7.53	133		25	25
	4.0	✓	✓	—	✓	✓	8.49	118		25	25
	5.0	✓	✓	—	✓	—	10.32	97		20	20
89 x 89	6.0	✓	✓	—	✓	—	12.03	83		16	16
	2.0	✓	✓	✓	✓	—	5.38	186		25	25
	2.5	✓	✓	✓	✓	✓	6.66	150		20	20
	3.5	✓	✓	—	✓	✓	9.07	110		20	20
	5.0	✓	✓	—	✓	—	12.51	80		16	16
	6.0	✓	✓	—	✓	—	14.67	68		12	12
100 x 100	2.0	✓	✓	✓	✓	—	6.07	165		20	12
	2.5	✓	✓	✓	✓	✓	7.53	133		20	12
	3.0	✓	✓	✓	✓	✓	8.96	112		20	20
	4.0	✓	✓	—	✓	✓	11.63	86		16	16
	5.0	✓	✓	—	✓	✓	14.24	70		12	12
	6.0	✓	✓	—	✓	✓	16.74	60		12	12
	9.0	✓	—	—	✓	—	23.53	43		9	9
125 x 125	4.0	✓	✓	—	✓	✓	14.80	68		12	12
	5.0	✓	✓	—	✓	✓	18.17	55		12	12
	6.0	✓	✓	—	✓	✓	21.45	47		9	9
	9.0	✓	—	—	✓	—	30.60	33		9	9
150 x 150	5.0	✓	—	—	✓	✓	22.09	45		9	9
	6.0	✓	—	—	✓	✓	26.16	38		9	9
	9.0	✓	—	—	✓	✓	37.66	27		6	6
200 x 200	5.0	✓	—	—	✓	✓	29.94	33		4	4
	6.0	✓	—	—	✓	✓	35.58	28		4	4
	9.0	✓	—	—	✓	✓	51.79	19		4	4



NOTE:

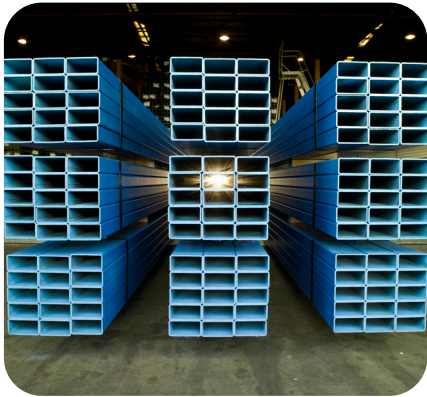
- » Non standard sizes, surface finishes and lengths available subject to enquiry. Minimum order quantities (MOQs) apply.
- » C450L0 grade available for some sizes, subject to enquiry. Minimum Order Quantities (MOQs) apply.
- » NOPC & OILED available subject to enquiry.
- » * Refer to Glossary of Terms
- » # Not in manufactured range, contact Orrcon Steel to check availability.

1.1.2 RECTANGULAR HOLLOW SECTIONS (RHS)

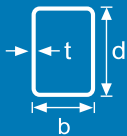
Section: Rectangular (RHS) Standard: AS/NZS 1163 Grade: C350L0 Surface Finish: SMARTCOTE® / ALLGAL® / ULTRA-SPEC GAL® / OILED / NOPC* StrucTube StrucTubeXT										
Size dx x b (mm)	Nom. Thick (mm)	Surface Finish					Nom. Linear Mass (Kg/m)	Nom. Mtre/ Tonne	8000mm Lengths / Pack	Lengths / Pack 12000mm
		SMART COTE	ALLGAL	ULTRA- SPEC GAL	C350	C450				
8000mm Lengths Standard										
50 x 25	1.6	✓	✓	✓	✓	✓	1.75	571	96	
	2.0	✓	✓	✓	✓	✓	2.15	465	96	
	2.5	✓	✓	✓	✓	✓	2.62	382	72	
	3.0	✓	✓	✓	✓	✓	3.07	326	60	
65 x 35	1.6	✓	✓	✓	✓	✓	2.38	420	54	
	2.0	✓	✓	✓	✓	✓	2.93	341	54	
	2.5	✓	✓	✓	✓	✓	3.60	278	54	
	3.0	✓	✓	✓	✓	✓	4.25	236	45	
75 x 25	1.6	✓	✓	✓	✓	✓	2.38	420	65	
	2.0	✓	✓	✓	✓	✓	2.93	341	65	
	2.5	✓	✓	✓	✓	✓	3.60	278	48	
75 x 50	1.6	✓	✓	✓	✓	✓	3.01	332	42	
	2.0	✓	✓	✓	✓	✓	3.72	269	42	
	2.5	✓	✓	✓	✓	✓	4.58	218	42	
	3.0	✓	✓	✓	✓	✓	5.42	184	35	
	4.0	✓	✓	–	✓	✓	6.92	145	28	
	5.0	✓	✓	–	✓	–	8.35	120	24	
	6.0	✓	✓	–	✓	–	9.67	103	20	
100 x 50	1.6	✓	✓	✓	✓	✓	3.64	275	32	
	2.0	✓	✓	✓	✓	✓	4.504	222	32	
	2.5	✓	✓	✓	✓	✓	5.56	180	32	
	3.0	✓	✓	✓	✓	✓	6.60	152	32	
	3.5	✓	✓	–	✓	✓	7.53	133	24	
	4.0	✓	✓	–	✓	✓	8.49	118	24	
	5.0	✓	✓	–	✓	–	10.32	97	18	
6.0	✓	✓	–	✓	–	12.03	83	15		
125 x 75	2.5	✓	✓	✓	✓	✓	7.53	133	20	20
	3.0	✓	✓	✓	✓	✓	8.96	112	20	20
	4.0	✓	✓	–	✓	✓	11.63	86	15	15
	5.0	✓	✓	–	✓	–	14.24	70	15	15
	6.0	✓	✓	–	✓	–	16.74	60	12	12
150 x 50	2.0	✓	✓	✓	✓	–	6.07	165	21	21
	2.5	✓	✓	✓	✓	✓	7.53	133	21	21
	3.0	✓	✓	✓	✓	✓	8.96	112	21	21
	4.0	✓	✓	–	✓	✓	11.63	86	15	15
	5.0	✓	✓	–	✓	–	14.24	70	15	15
	6.0	✓	✓	–	✓	–	16.74	60	15	15
150 x 100	3.0	✓	✓	–	✓	✓	11.31	88	12	8
	4.0	✓	✓	–	✓	✓	14.77	68	12	12
	5.0	✓	✓	–	✓	✓	18.17	55	12	12
	6.0	✓	✓	–	✓	✓	21.45	47	9	9
	9.0	✓	–	–	✓	✓	30.60	33	6	4
200 x 100	4.0	✓	–	–	✓	✓	17.90	56	8	8
	5.0	✓	–	–	✓	✓	22.09	45	8	8
	6.0	✓	–	–	✓	✓	26.16	38	6	6
	9.0	✓	–	–	✓	✓	37.66	27	6	6
250 x 150	5.0	✓	–	–	✓	✓	29.94	33	6	6
	6.0	✓	–	–	✓	✓	35.58	28	4	4
	9.0	✓	–	–	✓	✓	51.79	19	4	4

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, subject to enquiry. Minimum order quantities (MOQ's) apply.
» NOPC & OILED available subject to enquiry.

* Refer to Glossary of Terms



1.1.3 RECTANGULAR HOLLOW SECTIONS (RHS) - NON STANDARD



Section: Rectangular (RHS)
Standard: AS/NZS 1163
Grade: C350L0
Surface Finish: SMARTCOTE® / ALLGAL® / ULTRA-SPEC GAL® / OILED / NOPC*

Size dxb (mm)	Nom. Thick (mm)	Surface Finish			Nom. Linear Mass (Kg/m)	Nom. Mtre/ Tonne	Lengths / Pack
		SMART COTE	ALLGAL	ULTRA-SPEC GAL			
8000mm Lengths Standard							
38 x 25	1.6	✓	✓	✓	1.45	689	72
	2.0	✓	✓	✓	1.77	564	72
	2.5	✓	✓	✓	2.15	465	72
	3.0	✓	✓	✓	2.50	400	72
50 x 20	1.6	✓	✓	✓	1.63	615	96
	2.0	✓	✓	✓	1.99	502	96
	2.5	✓	✓	✓	2.42	412	72
	3.0	✓	✓	✓	2.83	353	72
50 x 30	2.0	✓	✓	✓	2.31	434	96
50 x 40	1.6	✓	✓	✓	2.13	470	63
	2.0	✓	✓	✓	2.62	382	63
	2.5	✓	✓	✓	3.21	312	54
76 x 38	1.6	✓	✓	✓	2.73	366	50
	2.0	✓	✓	✓	3.37	296	56
	2.5	✓	✓	✓	4.15	241	45
	3.0	✓	✓	✓	4.90	204	40
	4.0	✓	✓	–	6.23	161	32
80 x 40	1.6	✓	✓	✓	2.88	347	50
	2.5	✓	✓	✓	4.39	228	36
102 x 76	3.5	✓	✓	–	9.07	110	20
	5.0	✓	✓	–	12.51	80	15
	6.0	✓	✓	–	14.67	68	12
127 x 51	3.0	✓	✓	✓	7.92	126	18
	4.0	✓	✓	–	10.24	98	12
	5.0	✓	✓	–	12.51	80	12
	6.0	✓	✓	–	14.67	68	12
152 x 76	5.0	✓	✓	–	16.44	61	12
	6.0	✓	✓	–	19.38	52	9
185 x 65*	3.0	✓	✓	✓	11.31	88	10
	4.0	✓	✓	–	14.77	68	10
	5.0	✓	✓	–	18.17	55	10
	6.0	✓	✓	–	21.45	47	10

NOTE:

- » Minimum order quantities (MOQ's) apply.
- » C450L0 grade available subject to enquiry. Minimum order quantities (MOQ's) apply.
- » NOPC & OILED available subject to enquiry.

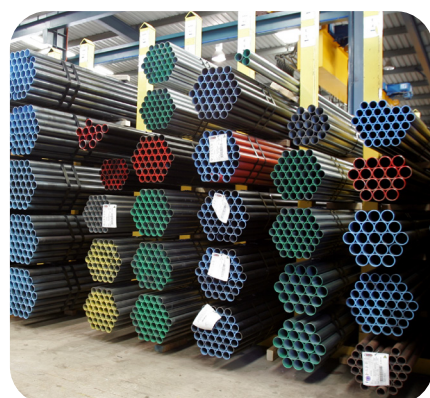
* Refer to Glossary of Terms



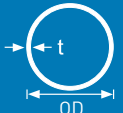
1.1.4 CIRCULAR HOLLOW SECTIONS (CHS)

t OD Section: Pipe (CHS) Standard: AS/NZS 1163 & AS 1074 Grade: C250L0, C350L0 Surface Finish: SMARTCOTE® / ULTRA-SPEC GAL® / 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
				C250L0	C350L0	SMART COTE	ALLGAL	ULTRA-SPEC GAL			
6500mm Lengths Standard											
—	25.4	2.0	XL	—	❖	—	✓	✓	1.15	866	91
20	26.9	2.6	M	✓	—	✓	✓	✓	1.56	642	127
25	33.7	2.0	XL	✓	❖	✓	✓	✓	1.56	640	91
		2.6	L	✓	❖	✓	✓	✓	1.99	501	91
		3.2	M	✓	—	✓	✓	—	2.41	415	91
		4.0	H	✓	—	✓	✓	—	2.93	341	91
32	42.4	2.0	XL	✓	❖	✓	✓	✓	1.99	502	61
		2.6	L	✓	❖	—	✓	✓	2.55	392	61
		3.2	M	✓	—	✓	✓	—	3.09	323	61
		4.0	H	✓	—	—	✓	—	3.79	264	61
40	48.3	2.3	XL	—	❖	✓	✓	✓	2.61	383	61
		2.9	L	✓	❖	✓	✓	✓	3.25	308	61
		3.2	M	✓	—	✓	✓	—	3.56	281	61
		3.5	M	✓	—	✓	✓	—	3.87	258	—
		4.0	H	✓	❖	✓	✓	—	4.37	229	61
—	51	2.0	XL	✓	—	✓	✓	✓	2.42	413	—
		4.0	H	✓	—	✓	✓	—	4.64	216	—
50	60.3	2.3	XL	✓	❖	✓	✓	✓	3.29	304	37
		2.9	L	✓	❖	✓	✓	✓	4.11	244	37
		3.5	M	✓	❖	✓	✓	—	4.9	204	—
		3.6	M	✓	❖	✓	✓	—	5.03	199	37
		4.5	H	✓	❖	✓	✓	—	6.19	161	37
65	76.1	2.3	XL	✓	❖	✓	✓	✓	4.19	239	37
		3.2	L	✓	❖	✓	✓	—	5.75	174	37
		3.6	M	✓	❖	✓	✓	—	6.44	155	37
		4.5	H	✓	❖	✓	—	—	7.95	126	37
80	88.9	2.6	XL	—	❖	✓	—	✓	5.53	181	19
		3.2	L	✓	❖	✓	✓	—	6.76	148	19
		4.0	M	✓	❖	✓	✓	—	8.38	119	19
		5.0	H	✓	❖	✓	✓	—	10.35	97	19
90	101.6	2.6	XL	—	❖	✓	✓	✓	6.35	158	19
		3.2	L	—	❖	✓	✓	—	7.77	129	19
		4.0	M	✓	❖	✓	—	—	9.63	104	19
		5.0	H	✓	❖	✓	—	—	11.91	84	19
100	114.3	3.2	XL	—	❖	✓	✓	—	8.77	114	19
		3.6	L	✓	❖	✓	✓	—	9.83	102	19
		4.5	M	✓	❖	✓	✓	—	12.19	82	19
		5.4	H	✓	❖	✓	—	—	14.50	69	19
125	139.7	3.0	XL	✓	❖	✓	—	✓	10.11	99	13
		3.5	L	—	❖	✓	✓	—	11.76	85	13
		5.0	M	✓	❖	✓	✓	—	16.61	60	13
		5.4	H	✓	❖	✓	—	—	17.89	56	13
150	165.1	3.0	XL	—	❖	✓	✓	✓	11.99	83	10
		3.5	L	—	❖	✓	✓	—	13.95	72	10
		5.0	M	✓	❖	✓	✓	—	19.74	51	10
		5.4	H	✓	—	✓	—	—	21.27	47	10

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.
 * Refer to Glossary of Terms



1.1.5 CIRCULAR HOLLOW SECTIONS BLU350® (CHS)

 Section: Pipe (CHS) Standard: AS/NZS 1163 Grade: C350, C450 Surface Finish: SMARTCOTE® / OILED / NOPC* BLU350®								
NB (mm)	OD (mm)	Nom. Thick (mm)	Grade	Surface Finish	Nom. Linear Mass (Kg/m)	Nom. Mtre / Tonne	6m Lengths/ Pack	12m Lengths/ Pack
6500mm Lengths Standard								
	60.3	5.5	❖	✓	7.43	135	37	19
	76.1	4	❖	✓	7.11	141	37	19
		5	❖	✓	8.77	114	37	19
	88.9	5.5	❖	✓	11.3	89	19	10
		6	❖	✓	12.27	82	19	10
	101.6	6	❖	✓	14.1	71	19	10
	114.3	4.8	❖	✓	13	77	19	10
		5.4	❖	✓	14.5	69	19	10
		6	❖	✓	16.02	63	19	10
	139.7	5.4	❖	✓	17.9	56	13	13
	165.1	3.2	❖	✓	12.7	79	10	10
	168.3	3.2	❖	✓	12.79	78	10	10
		4.8	❖	✓	19.35	52	10	7
		6.4	❖	✓	25.55	39	10	7
		7.1	❖	✓	28.23	35	-	7
	219.1	4.8	❖	✓	25.37	39	-	7
		6.4	❖	✓	33.57	30	-	7
		8.2	❖	✓	42.65	23	-	7

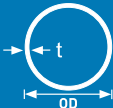
NOTE:

- » (❖) 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.

* Refer to Glossary of Terms

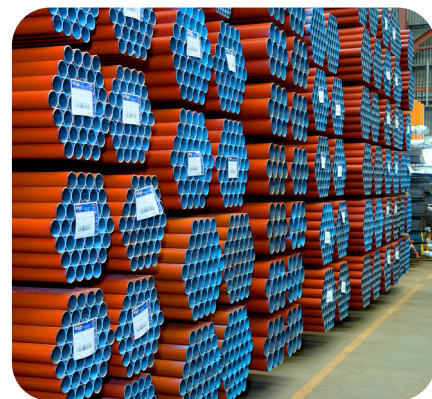


1.2.1 SPRINKLER & HYDRANT PIPE - ORRFIRE® PIPE RANGE

				Section: ORRFIRE® Pipe - Sprinkler and Hydrant Pipe Standard: AS4118.2.1 / AS2419 / ActivFire® Surface Finish: SMARTCOTE® / ALLGAL®					
OD (mm)	NB (mm)	Nominal Thickness (mm)	Designation	Surface Finish		Nom. Linear Mass (Kg/m)	Nom. Mtre/ Tonne	Lengths / Pack	
				SMARTCOTE	ALLGAL				
6500mm Lengths Standard									
26.7	20	2.0	XLight	✓	✓	1.23	814	127	
		2.3	Light	✓	✓	1.40	717	127	
		2.6	Medium	✓	✓	1.56	642	127	
33.4	25	2.0	XLight	✓	✓	1.56	639	91	
		2.6	Light	✓	✓	1.99	501	91	
		3.2	Medium	✓	✓	2.41	415	91	
42.2	32	2.0	XLight	✓	✓	1.99	501	61	
		2.6	Light	✓	✓	2.55	392	61	
		3.2	Medium	✓	✓	3.09	323	61	
48.3	40	2.3	XLight	✓	✓	2.61	383	61	
		2.9	Light	✓	✓	3.25	308	61	
		3.2	Medium	✓	✓	3.56	280	61	
60.3	50	2.3	XLight	✓	✓	3.29	304	37	
		2.9	Light	✓	✓	4.11	244	37	
		3.6	Medium	✓	✓	5.03	199	37	
76.1	65	2.3	XLight	✓	✓	4.19	239	37	
		3.2	Light	✓	✓	5.75	174	37	
		3.6	Medium	✓	✓	6.44	155	37	
88.9	80	2.6	XLight	✓	✓	5.53	181	19	
		3.2	Light	✓	✓	6.76	148	19	
		4.0	Medium	✓	✓	8.38	119	19	
114.3	100	2.5	—	✓	✓	6.89	145	19	
		3.2	XLight	✓	✓	8.76	114	19	
		3.6	Light	✓	✓	9.83	102	19	
		4.5	Medium	✓	✓	12.20	82	19	
139.7	125	3.0	XLight	✓	✓	10.11	99	13	
		3.5	Light	✓	✓	11.08	85	13	
		5.0	Medium	✓	✓	16.60	60	13	
165.1	150	3.0	XLight	✓	✓	11.99	83	10	
		3.5	Light	✓	✓	13.90	72	10	
		5.0	Medium	✓	✓	19.70	51	10	
		5.4	Heavy	✓	✓	21.30	47	10	

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 and 200 MPa for medium wall.
- » These tables are applicable for services where pipe contents temperature does not exceed 250°C.
- » Pipe 20NB up to 150NB is painted red primer.
- » Custom sizes, surface finish and lengths available, subject to enquiry.
- » Minimum order quantities (MOQ's) apply.
- » Contact your Orrcon Steel representative for the correct quantity of lengths per pack.



1.2.2 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
Outside Diameter	(mm)	26.9	33.7	42.4	48.3	60.3	76.1	88.9	114.3	139.7	165.1
Min OD	(mm)	26.6	33.4	42.0	47.8	59.7	75.3	88.0	113.2	138.3	163.4
Max OD	(mm)	27.2	34.0	42.8	48.8	61.0	76.9	89.8	115.4	141.1	166.7

Availability of 168.3 and 219.10D for ORRFIRE is subject to enquiry.



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%

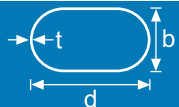


The current ActivFire® approvals are listed below. Current copies of ActivFire® certificates are available from www.orrconsteel.com.au

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 Galvanized	Extra Light pipe
afp 1528	ORRFIRE® ALLGAL® Electro Galvanized	Extra Light pipe 100NB and above
afp 1508	ORRFIRE® ALLGAL® Electro Galvanized	Light pipe
afp 1509	ORRFIRE® ALLGAL® Electro Galvanized	Medium pipe



1.3 YARD RAIL



Section: Yard Rail

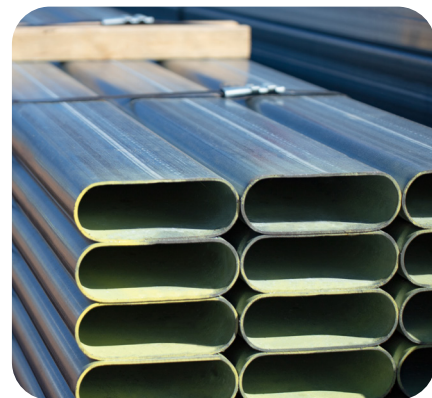
Standard: AS/NZS 1163

Grade: C350L0

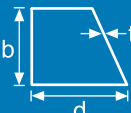
Surface Finish: SMARTCOTE® / ULTRA-SPEC GAL® / ALLGAL®

Size dxb (mm)	Nom. Thick (mm)	Surface Finish			Nom. Linear Mass (Kg/m)	Nom. Mtre/ Tonne	Lengths / Pack
		SMART COTE	ULTRA-SPEC GAL	ALLGAL			
Flat Sided Oval (Rail) 6100mm Lengths Standard							
52 x 25	1.6	✓	✓	✓	1.61	621	48
	2.0	✓	✓	✓	1.99	503	48
53 x 35	1.6	✓	✓	✓	1.84	543	48
58 x 31	16	✓	✓	✓	1.847	541	48
59 x 30	1.6	✓	✓	✓	1.84	543	48
	2.0	✓	✓	✓	2.28	439	48
62 x 50	2.0	✓	✓	✓	2.876	348	25
	2.5	✓	✓	✓	3.564	281	25
	3.0	✓	✓	✓	4.239	236	25
	4.0	✓	✓	✓	5.554	180	25
66 x 44	1.6	✓	✓	✓	2.32	431	25
	2.0	✓	✓	✓	3.22	311	25
75 x 40	1.6	✓	✓	✓	2.46	407	20
	2.0	✓	✓	✓	2.99	334	20
	2.5	✓	✓	✓	3.60	278	32
85 x 48	1.6	✓	✓	✓	2.742	365	28
97 x 40	2.0	✓	✓	✓	3.65	274	21
97 x 42	2.0	✓	✓	✓	3.65	274	21
	2.5	✓	✓	✓	4.53	221	21
	2.0	✓	✓	✓	3.85	260	21
108 x 38	2.0	✓	✓	✓	3.85	260	21
115 x 42	2.0	✓	✓	✓	4.27	234	21
	2.3	✓	✓	✓	4.912	204	21
	2.5	✓	✓	✓	5.33	188	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

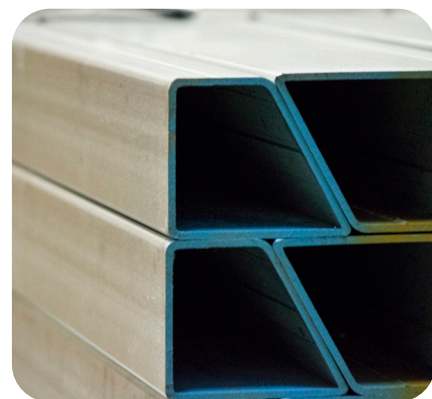
NOTE: » Non standard sizes, surface finishes and lengths available, subject to enquiry.
 » Minimum order quantities (MOQ's) apply.



1.4 SILO SECTIONS

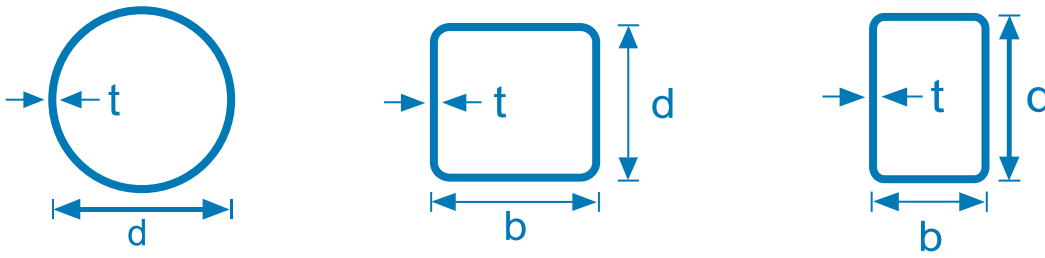
	Section: Silo Sections Standard: AS/NZS 1163 Grade: C350L0 Surface Finish: ALLGAL®				
Size dxb (mm)	Nom. Thick (mm)	Surface Finish	Nom. Linear Mass (Kg/m)	Nom. Mtre/Tonne	Lengths / Pack
		ALLGAL			
12000mm Lengths Standard					
75 x 64	2.5	✓	4.58	218	24
	3.0	✓	5.46	183	24

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

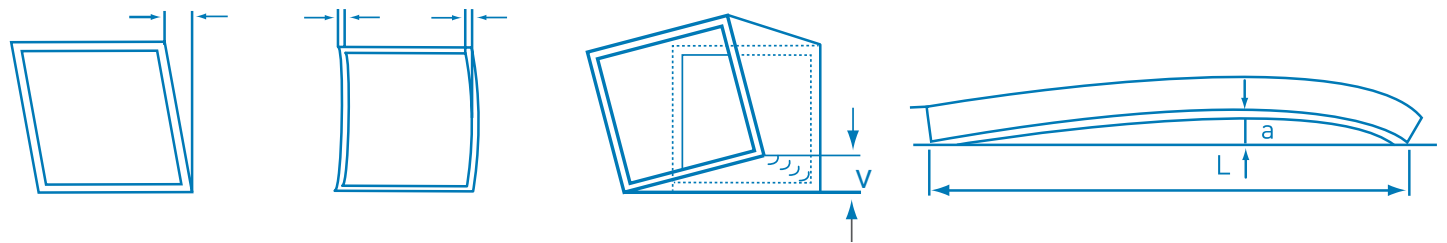


1.5 STRUCTURAL STANDARDS & TOLERANCES

Standard Tolerances - Structural Tube & Pipe



AS/NZS 1163	Dimensional Tolerances	
Characteristic	Pipe (CHS)	Rectangular & Square (RHS / SHS)
External dimensions (d, b, d ₀)	±1% with minimum of ±0.5mm & maximum ±10mm	±1% with minimum of ±0.5mm
All Sections		
Thickness (t)	±10%	
Mass	Not less than 96% of specified nominal mass	



AS/NZS 1163	Shape Tolerances	
Characteristic	All Sections	
Corner Radius	≤ 50 x 50mm equivalent perimeter	1.5t to 3t
	> 50 x 50mm equivalent perimeter	1.8t to 3t
Twist (v)	≤2mm ±0.5mm /m Lengths	
Concavity / Convexity	Max 0.8% or 0.5mm, whichever is greater	
Squareness	90 ± 1°	
Straightness	Pipe (CHS)	Rectangle & Square (RHS/SHS)
	0.20% of total Lengths	0.15% of total Lengths

STANDARD MECHANICAL PROPERTIES - STRUCTURAL TUBE & PIPE

Standard	Grade*	Yield Strength MPa (min)	Tensile Strength MPa (min)	Elongation, % (min)					
				CHS (d ₀ /t)			RHS & SHS (b/t, d/t)		
				<15	15-30	>30	<15	15-30	>30
AS/NZS 1163	C250L0	250	320	18	20	22	14	16	18
	C350L0	350	430	16	18	20	12	14	16
	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.





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