



Steel Product Guide



End Coding Chart

RHS & SHS		ANGLE		UNI BEAMS	
Thickness	Colour	Thickness	Colour	Thickness	Colour
1.5mm	Red	2.0mm	Yellow	150/14.0kg/mtr	Blue
1.6mm	Purple	3.0mm	Blue	18kg/mtr	Purple
2.0mm	Yellow	4.0mm	Green	180/ 16.1 kg/mtr	Blue
2.5mm	Pink	5.0mm	Orange	18.1 kg/mtr	Purple
3.0mm	Blue	6.0mm	White	22.2kg/mtr	Red
3.5mm	Grey	8.0mm	Red	200/ 18.2kg/mtr	White
4.0mm	Green	10.0mm	Yellow	22.2kg/mtr	Blue
5.0mm	Orange	12.0mm	Pink	25.4kg/mtr	Purple
6.0mm	White	14.0mm	Orange	29.8kg/mtr	Red
8.0mm	Red	16.0mm	Grey	250/ 25.7kg/mtr	Blue
9.0mm	Purple	20.0mm	Green	31.4kg/mtr	Purple
12.0mm	Pink	25.0mm	Purple	37.3kg/mtr	Red
Channels		Square Bar		310/ 32.0kg/mtr	Blue
75 x 40	Blue	10mm	Yellow	40.4kg/mtr	Purple
100 x 50	Purple	12mm	Pink	46.2kg/mtr	Red
125 x 65	Red	16mm	Grey	360/44.7kg/mtr	Blue
150 x 75	Blue	20mm	Green	50.7kg/mtr	Purple
180 x 75	Purple	25mm	Purple	56.7kg/mtr	Red
200 x 75	Red	32mm	Orange	410/ 53.7kg/mtr	Blue
230 x 75	White	40mm	Yellow	59.7kg/mtr	Purple
250 x 90	Orange	50mm	Green	460/ 67.1 kg/mtr	Blue
300 x 90	Yellow	Uni Columns		74.6kg/mtr	Purple
380 x 100	White	100/14.8kg/mtr	Blue	82.1kg/mtr	Red
Round & D-Bar		150/ 23.4kg/mtr	Blue	530/82.0kg/mtr	Blue
6mm	White	30kg/mtr	Purple	92.4kg/mtr	Purple
8mm	Red	37.2kg/mtr	Red	610/ 101 kg/mtr	Blue
10mm	Yellow	200/46.2kg/mtr	Blue	113kg/mtr	Purple
12mm	Pink	52.2kg/mtr	Purple	125kg/mtr	Red
14mm	Orange	59.5kg/mtr	Red	ERW Tube	
16mm	Grey	250/72.9kg/mtr	Blue	16mm	White
18mm	Purple	89.5kg/mtr	Purple	19mm	Pink
20mm	Green	310/96.8kg/mtr	White	Pipe	
22mm	White	118kg/mtr	Blue	Extra Light	Green
24mm	Pink	137kg/mtr	Purple	Light	Yellow
27mm	Blue	158kg/mtr	Red	Medium	Blue
30mm	Yellow	Structural Pipe		Heavy	Red
33mm	Grey	168.3 ODx4.8mm	White	Extra Heavy	White
36mm	Red	168.3 ODx6.4mm	Orange	Taper Beams	
39mm	Orange	219.1 ODx4.8mm	Purple	100 x 45	Purple
45mm	Pink	219.1 ODx6.4mm	Red	125 x 65	Red
50mm	Green				

About Steelforce Australia

Founded in April 2000, in Brisbane, Steelforce is a major distributor of steel products in Australia, with branches in Brisbane, Sydney, Melbourne and Perth.

As an Australian based distribution, manufacturing and trading business, Steelforce prides itself on understanding the needs of our customers.

Our broad product range covers everything from structural steel, merchant bar, steel pipe and tube to a comprehensive range of flat and angle products.

All our products are quality accredited to ISO 9001:2008 and compliant with applicable Australian standards unless otherwise noted.

Our customers use our products across a broad range of steel applications, from fabricators to stock yard installers, from industrial developments to residential properties, and from original equipment manufacturers to fabricators.

It's our commitment to ensure every day the highest quality products are delivered to our customers on time and at affordable prices.

For more detailed information visit the Steelforce website: steelforce.com.au.

The information in this booklet has been taken from sources believed to be correct. Steelforce 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.

Contents

End Coding Chart	2
About Steelforce Australia	3
Precision Tube	5
Square Hollow Sections (SHS)	6
SHS – DuraGal® & Painted	6-7
Rectangular Hollow Section (RHS)	8
RHS – DuraGal® & Painted	8-10
Circular Hollow Sections (CHS)	11
CHS – DuraGal® & Painted	11
CHS – Hot Dip Galvanised	12
Pipe – Structural CHS	13
Rail – Oval Rail	13
Pipe – ERW Line Pipe	14
GalForce® Profiles	15
Galvanised Flats	15
Galvanised Angles	16
Galvanised Channels	17
Steel Solid Section Range	18
Flat Bar	18-20
Round Bar	21
Deformed Bar	21
Square Bar	22
Equal Angles	23-24
Unequal Angles	24
Parallel Flanged Channel (PFC)	25
Universal Columns (UC)	26
Welded Columns (WC)	26
Universal Beams (UB)	27
Welded Beams (WB)	28
Tapered Flanged Beams (TFB)	28
Plates & Sheet	29
Plain Plates	29
Floor Plates	29
Steel Sheet	30
Manufacturing Standards	30
Dalian Profile Standards	31-32
Dalian Precision Tube Standard	33-34
Pipe & Tube Tolerances	35
Black Steel Tolerances	36
Length Capabilities	37
Special Lengths	37
Mill Processing	37
Finishes	37
GalForce® Coating	37
Sustainability	38
Certification	38
Gauge Converter	39
Notes	40
Contact Details	Back

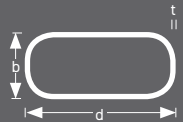
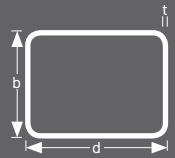
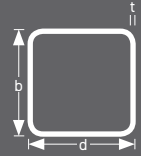


Precision Tube

Grade: C250 – See Dalian Precision Tube Standard

Dimension			Finish		Std Length	Lengths per pack	Tonnes per pack	Metres per tonne		
d	b	t	Pre-Gal	Painted						
mm			kg/m		m					
Light Gauge SHS										
13	x	13	x	1.5	0.50	0.50	6.5	49	0.159	2000.0
15	x	15	x	1.5	0.59	0.59	6.5	49	0.188	1694.9
20	x	20	x	1.5	0.83	0.83	6.5	49	0.264	1204.8
25	x	25	x	1.2	0.87	-	6.5	49	0.277	1149.4
25	x	25	x	1.5	1.06	1.06	6.5	49	0.338	943.4
30	x	30	x	1.5	1.30	1.30	8	49	0.510	769.2
35	x	35	x	1.5	1.53	1.53	8	49	0.600	653.6
40	x	40	x	1.5	1.77	1.77	8	36	0.510	565.0
50	x	50	x	1.5	2.24	2.24	8	30	0.538	446.4
65	x	65	x	1.5	2.95	2.95	8	20	0.472	339.0
Light Gauge RHS										
38	x	25	x	1.2	1.11	-	7.32	36	0.293	900.9
				1.5	1.37	-	7.32	36	0.361	729.9
50	x	20	x	1.5	1.53	1.53	8	48	0.588	653.6
50	x	25	x	1.5	1.65	1.65	8	48	0.634	606.1
65	x	35	x	1.5	2.24	2.24	8	24	0.430	446.4
75	x	25	x	1.5	2.24	2.24	8	32	0.573	446.4
75	x	50	x	1.5	2.83	2.83	8	20	0.453	353.4
76	x	38	x	1.5	2.57	-	8	45	0.925	389.1
100	x	50	x	1.5	3.42	3.42	8	15	0.410	292.4
Precision Oval Rail										
59	x	30	x	1.5	1.74	-	6.1	45	0.478	574.7
115	x	42	x	1.5	3.22	-	6.1	15	0.294	310.8
Light Gauge CHS										
16	OD	x	1.2	0.44	-	7.32	61	0.196	2272.7	
19	OD	x	1.2	0.53	-	7.32	61	0.237	1886.8	

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.



Precision Tube Range

The Precision Tube range in Pre-Gal finish are light galvanised steel sections that offer the advantage of better protection against the elements over traditional primer painted products. Available in square, rectangular, circular and rain sections.

Pre-Gal products in the Precision range are manufactured using a fully hot-dip galvanising process to a thickness of 50g/m² per side (Z100). This means the products are galvanised on the inside as well as the outside.

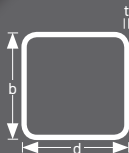
Pre-Gal products are manufactured to stringent standards so you're protected no matter which way you look at it.

Precision Tube is used in a variety of applications, limited only by your imagination and no special processes are required for preparation for welding or top coats. Precision Tube can also be powder coated without difficulty.

SHS – DuraGal® & Painted

Compliant with AS/NZS 1163:2016. Grade: C350L0

Some locations also carry 9,10 and 12 metre lengths plus a select range in Grade C450 - Oiled Finish.



Dimension			Finish		Std Length	Lengths per pack	Tonnes per pack	Metres per tonne
d	b	t	DuraGal®	Painted				
mm			kg/m		m			
20	x 20	x 1.6	0.873	0.873	6.5	49	0.278	1145.5
		x 2.0	1.05	1.05	6.5	49	0.334	952.4
		x 1.6	1.12	1.12	6.5	49	0.357	892.9
		x 2.0	1.36	1.36	6.5	49	0.433	735.3
25	x 25	x 1.6	1.12	1.12	6.5	49	0.357	892.9
		x 2.0	1.36	1.36	6.5	49	0.433	735.3
		x 2.5	1.64	1.64	6.5	49	0.522	609.8
		x 3.0	1.89	1.89	6.5	49	0.602	529.1
30	x 30	x 1.6	1.38	1.38	8	49	0.541	724.6
		x 2.0	1.68	1.68	8	49	0.659	595.2
		x 2.5	2.03	2.03	8	49	0.796	492.6
		x 3.0	2.36	2.36	8	36	0.680	423.7
35	x 35	x 1.6	1.63	1.63	8	49	0.639	613.5
		x 2.0	1.99	1.99	8	49	0.780	502.5
		x 2.5	2.42	2.42	8	30	0.581	413.2
		x 3.0	2.83	2.83	8	30	0.679	353.4
40	x 40	x 1.6	1.88	1.88	8	36	0.541	531.9
		x 2.0	2.31	2.31	8	36	0.665	432.9
		x 2.5	2.82	2.82	8	30	0.677	354.6
		x 3.0	3.30	3.30	8	30	0.792	303.0
50	x 50	x 4.0	4.09	4.09	8	30	0.982	244.5
		x 1.6	2.38	2.38	8	30	0.571	420.2
		x 2.0	2.93	2.93	8	30	0.703	341.3
		x 2.5	3.60	3.60	8	25	0.720	277.8
65	x 65	x 3.0	4.25	4.25	8	25	0.850	235.3
		x 4.0	5.35	5.35	8	20	0.856	186.9
		x 5.0	6.39	6.39	8	16	0.818	156.5
		x 6.0	-	7.32	8	16	0.937	136.6
75	x 75	x 1.6	3.13	-	8	20	0.501	319.5
		x 2.0	3.88	3.88	8	20	0.621	257.7
		x 2.5	4.78	4.78	8	20	0.765	209.2
		x 3.0	5.66	5.66	8	20	0.906	176.7
80	x 80	x 4.0	7.23	7.23	8	16	0.925	138.3
		x 5.0	8.75	8.75	8	12	0.840	114.3
		x 6.0	-	10.15	8	12	0.974	98.5
		x 2.0	4.50	4.50	8	16	0.576	222.2
90	x 90	x 2.5	5.56	5.56	8	16	0.712	179.9
		x 3.0	6.60	6.60	8	16	0.845	151.5
		x 3.0	6.60	6.60	12	12	0.950	151.5
		x 3.5	7.53	7.53	8	12	0.723	132.8
100	x 100	x 3.5	7.53	7.53	12	9	0.813	132.8
		x 4.0	8.49	8.49	8	12	0.815	117.8
		x 4.0	8.49	8.49	12	9	0.917	117.8
		x 5.0	10.30	10.30	8	9	0.742	97.1
120	x 120	x 5.0	10.30	10.30	12	6	0.742	97.1
		x 6.0	-	12.00	8	9	0.864	83.3
150	x 150	x 6.0	-	12.00	12	6	0.864	83.3

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). DuraGal® is the standard Pre-Gal finish however Steelforce reserves the right to substitute another alternative Pre-Gal finished product. Contact your local Steelforce branch to confirm product availability.

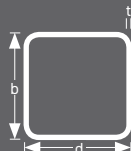
Square Hollow Sections (SHS)

SHS – DuraGal® & Painted

Compliant with AS/NZS 1163:2016. Grade: C350LD

Some locations also carry 9,10 and 12 metre lengths plus a select range in Grade C450 - Oiled Finish.

Dimension				Finish		Std Length	Lengths per pack	Tonnes per pack	Metres per tonne
d	b	t		DuraGal®	Painted				
mm				kg/m		m			
89	x	89	x	2.0	5.38	-	8	0.861	185.9
				2.2	5.90	-	8	0.566	169.5
				3.5	9.07	9.07	8	0.653	110.3
				3.5	9.07	9.07	12	0.980	110.3
				5.0	12.50	12.50	8	0.900	80.0
				5.0	12.50	12.50	12	0.900	80.0
				6.0	-	14.67	8	0.704	68.2
				6.0	-	14.67	12	0.704	68.2
				2.0	6.07	-	8	0.971	164.7
				2.2	6.66	-	8	0.480	150.2
100	x	100	x	2.5	7.53	7.53	8	0.542	132.8
				3.0	8.96	8.96	8	0.645	111.6
				3.0	8.96	8.96	12	0.968	111.6
				4.0	11.60	11.60	8	0.835	86.2
				4.0	11.60	11.60	12	0.835	86.2
				5.0	14.20	14.20	8	0.682	70.4
				5.0	14.20	14.20	12	0.682	70.4
				6.0	-	16.70	8	0.802	59.9
				6.0	-	16.70	12	0.802	59.9
				9.0	-	23.50	8	1.692	42.6
				9.0	-	23.50	12	2.538	42.6
				4.0	14.80	14.80	8	0.710	67.6
				4.0	14.80	14.80	12	0.710	67.6
				5.0	18.20	18.20	8	0.874	54.9
				5.0	18.20	18.20	12	0.874	54.9
125	x	125	x	6.0	-	21.40	8	0.685	46.7
				6.0	-	21.40	12	1.027	46.7
				9.0	-	30.60	8	1.958	32.7
				9.0	-	30.60	12	2.938	32.7
				4.0	17.91	17.91	8	0.573	55.8
				4.0	17.91	17.91	12	0.860	55.8
				5.0	22.10	22.10	8	0.707	45.2
				5.0	22.10	22.10	12	1.061	45.2
				6.0	-	26.20	8	0.838	38.2
				6.0	-	26.20	12	1.258	38.2
150	x	150	x	9.0	-	37.70	8	1.810	26.5
				9.0	-	37.70	12	1.810	26.5
				5.0	-	29.90	8	1.435	33.4
				5.0	-	29.90	12	1.435	33.4
				6.0	-	35.60	8	1.139	28.1
				6.0	-	35.60	12	1.709	28.1
				9.0	-	51.80	8	1.658	19.3
				9.0	-	51.80	12	1.243	19.3
				6.0	-	45.00	8	1.440	22.2
				6.0	-	45.00	12	1.080	22.2
200	x	200	x	9.0	-	65.90	8	1.054	15.2
				9.0	-	65.90	12	1.582	15.2
				6.0	-	54.42	8	0.435	18.4
				6.0	-	54.42	12	0.653	18.4
250	x	250	x	9.0	-	80.05	8	0.640	12.5
				9.0	-	80.05	12	0.961	12.5
300	x	300	x	6.0	-	54.42	8	0.435	18.4
				6.0	-	54.42	12	0.653	18.4
				9.0	-	80.05	8	0.640	12.5
				9.0	-	80.05	12	0.961	12.5



Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). DuraGal® is the standard Pre-Gal finish however Steelforce reserves the right to substitute another alternative Pre-Gal finished product. Contact your local Steelforce branch to confirm product availability.

RHS – DuraGal® & Painted

Compliant with AS/NZS 1163:2016. Grade: C350L0

Some locations also carry 9,10 and 12 metre lengths plus a select range in Grade C450 - Oiled Finish.

Dimension				Finish		Std Length	Lengths per pack	Tonnes per pack	Metres per tonne
d	b	t		DuraGal®	Painted				
mm				kg/m		m			
38	x 25	x 1.6		1.45	1.45	7.32	36	0.382	689.7
				2.0	1.77	1.77	8	0.510	565.0
50	x 20	x 1.6		1.63	1.63	8	48	0.626	613.5
				2.0	1.99	1.99	8	0.764	502.5
				2.5	2.42	2.42	8	0.697	413.2
				3.0	2.83	2.83	8	0.679	353.4
50	x 25	x 1.6		1.75	1.75	8	48	0.672	571.4
				2.0	2.15	2.15	8	0.826	465.1
				2.5	2.62	2.62	8	0.755	381.7
				3.0	3.07	3.07	8	0.737	325.7
65	x 35	x 1.6		2.38	2.38	8	24	0.457	420.2
				2.0	2.93	2.93	8	0.563	341.3
				2.5	3.60	3.60	8	0.691	277.8
				3.0	4.25	4.25	8	0.714	235.3
				4.0	5.35	5.35	8	0.899	186.9
75	x 25	x 1.6		2.38	2.38	8	32	0.609	420.2
				2.0	2.93	2.93	8	0.750	341.3
				2.5	3.60	3.60	8	0.691	277.8
75	x 50	x 1.6		3.01	3.01	8	20	0.482	332.2
				2.0	3.72	3.72	8	0.595	268.8
				2.5	4.58	4.58	8	0.733	218.3
				3.0	5.42	5.42	8	0.780	184.5
				4.0	6.92	6.92	8	0.664	144.5
				5.0	8.35	8.35	8	0.802	119.8
				6.0	9.67	9.67	8	0.928	103.4
76	x 38	x 1.6		2.73	-	8	32	0.699	366.3
				2.0	-	3.37	8	0.863	296.7
				2.5	-	4.15	8	1.062	241.0
				3.0	-	4.90	8	1.254	204.1
100	x 50	x 1.6		3.64	3.64	8	15	0.437	274.7
				2.0	4.50	4.50	8	0.540	222.2
				2.5	5.56	5.56	8	0.667	179.9
				3.0	6.60	6.60	8	0.792	151.5
				3.0	6.60	6.60	12	0.950	151.5
				3.5	7.53	7.53	8	0.723	132.8
				3.5	7.53	7.53	12	0.723	132.8
				4.0	8.49	8.49	8	0.815	117.8
				4.0	8.49	8.49	12	0.815	117.8
				5.0	10.30	10.30	8	0.742	97.1
				5.0	10.30	10.30	12	0.742	97.1
				6.0	-	12.00	8	0.864	83.3
				6.0	-	12.00	12	0.864	83.3

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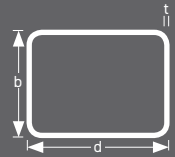
Rectangle Hollow Sections (RHS)

RHS – DuraGal® & Painted

Compliant with AS/NZS 1163:2016. Grade: C350LO

Some locations also carry 9,10 and 12 metre lengths plus a select range in Grade C450 - Oiled Finish.

Dimension				Finish		Std Length	Lengths per pack	Tonnes per pack	Metres per tonne
d	b	t		DuraGal®	Painted				
mm				kg/m		m			
102	x 76	x	3.5	-	9.07	8	9	0.653	110.3
			5.0	-	12.51	8	6	0.600	79.9
			6.0	-	14.67	8	6	0.704	68.2
125	x 75	x	2.0	6.07	-	8	24	1.165	164.7
			2.5	7.53	7.53	8	12	0.723	132.8
			3.0	8.96	8.96	8	12	0.860	111.6
			3.0	8.96	8.96	12	9	0.968	111.6
			4.0	11.60	11.60	8	8	0.742	86.2
			4.0	11.60	11.60	12	6	0.835	86.2
			5.0	14.20	14.20	8	8	0.909	70.4
			5.0	14.20	14.20	12	4	0.682	70.4
			6.0	-	16.74	8	8	1.071	59.7
150	x 50	x	6.0	-	16.74	12	4	0.804	59.7
			2.0	6.07	-	8	21	1.020	164.7
			2.5	7.53	7.53	8	12	0.723	132.8
			3.0	8.96	8.96	8	12	0.860	111.6
			3.0	8.96	8.96	12	8	0.860	111.6
			4.0	11.60	11.60	8	8	0.742	86.2
			4.0	11.60	11.60	12	6	0.835	86.2
			5.0	14.20	14.20	8	8	0.909	70.4
			5.0	14.20	14.20	12	4	0.682	70.4
			6.0	-	16.74	8	8	1.071	59.7
152	x 76	x	6.0	-	16.74	12	4	0.804	59.7
			5.0	-	16.44	8	6	0.789	60.8
			5.0	-	16.44	12	4	0.789	60.8
			6.0	-	19.38	8	4	0.620	51.6
			6.0	-	19.38	12	4	0.930	51.6
			4.0	14.80	14.80	8	6	0.710	67.6
			4.0	14.80	14.80	12	4	0.710	67.6
150	x 100	x	5.0	18.20	18.20	8	6	0.874	54.9
			5.0	18.20	18.20	12	4	0.874	54.9
			6.0	-	21.40	8	4	0.685	46.7
			6.0	-	21.40	12	4	1.027	46.7
			9.0	-	30.60	8	6	1.469	32.7
			9.0	-	30.60	12	4	1.469	32.7
			4.0	17.90	17.90	8	4	0.573	55.9
			4.0	17.90	17.90	12	4	0.859	55.9
200	x 100	x	5.0	22.10	22.10	8	4	0.707	45.2
			5.0	22.10	22.10	12	4	1.061	45.2
			6.0	-	26.20	8	4	0.838	38.2
			6.0	-	26.20	12	2	0.629	38.2
			9.0	-	37.70	8	6	1.810	26.5
			9.0	-	37.70	12	4	1.810	26.5



Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). DuraGal® is the standard Pre-Gal finish however Steelforce reserves the right to substitute another alternative Pre-Gal finished product. For items listed as Painted finish please note that larger sections above 150 mm will likely be Oiled finish. Contact your local Steelforce branch to confirm product availability.

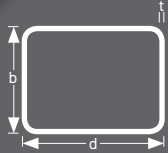
RHS – DuraGal® & Painted

Compliant with AS/NZS 1163:2016. Grade: C350L0

Some locations also carry 9,10 and 12 metre lengths plus a select range in Grade C450 - Oiled Finish.

Dimension			Finish		Std Length	Lengths per pack	Tonnes per pack	Metres per tonne
d	b	t	DuraGal®	Painted				
mm			kg/m		m			
250 x 150 x		5.0	-	29.90	8	6	1.435	33.4
		5.0	-	29.90	12	6	2.153	33.4
		6.0	-	35.60	8	4	1.139	28.1
		6.0	-	35.60	12	4	1.709	28.1
		9.0	-	51.80	8	4	1.658	19.3
		9.0	-	51.80	12	2	1.243	19.3
		10.0	-	57	12	2	0.422	17.6
		12.5	-	69.4	12	1	0.173	14.4
300 x 200 x		6.0	-	45	8	1	0.178	22.2
		6.0	-	45	12	1	0.266	22.2
		8.0	-	59.1	8	1	0.135	16.9
		8.0	-	59.1	12	1	0.203	16.9
		9.0	-	65.9	12	2	0.365	15.2
		10.0	-	72.7	8	1	0.110	13.8
		10.0	-	72.7	12	1	0.166	13.8
		12.5	-	89	12	1	0.134	11.2
350 x 250 x		16.0	-	111	12	1	0.108	9.0
		8.0	-	71.6	12	2	0.336	14.0
		10.0	-	88.4	12	1	0.136	11.3
		12.5	-	109	12	1	0.111	9.2
400 x 200 x		16.0	-	136	12	1	0.088	7.4
		8.0	-	71.6	12	2	0.336	14.0
		10.0	-	88.4	12	1	0.136	11.3
		12.5	-	109	12	1	0.111	9.2
400 x 300 x		16.0	-	136	12	1	0.088	7.4
		8.0	-	84.2	12	1	0.143	11.9
		10.0	-	104	12	1	0.115	9.6
		12.5	-	128	12	1	0.094	7.8
		16.0	-	161	12	1	0.075	6.2

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Circular Hollow Sections (CHS)

CHS – DuraGal® & Painted

Compliant with AS/NZS 1163/1074. Grade: C350L0/C250

Some locations also carry

7.2 metre lengths.

Nominal Pipe Size	Dimension		Finish		Std Length	Tonnes per pack	Lengths per pack	Metres per tonne
	OD	t	DuraGal®	Painted				
	mm		kg/m		m			
10 Med	17.2	x 2.3	0.88	0.88	6.5	0.36	64	1136
15 Med	21.3	x 2.6	1.25	1.25	6.5	0.49	61	800
15 Hvy		3.2	1.48	1.48	6.5	0.59	61	676
20 Xlt	26.9	x 2.0	1.23	1.23	6.5	0.488	61	813.0
20 Lgt		2.3	1.40	1.40	6.5	0.555	61	714.3
20 Med		2.6	-	1.56	6.5	0.619	61	641.0
20 Hvy		3.2	-	1.87	6.5	0.741	61	534.8
25 Xlt	33.7	x 2.0	1.56	1.56	6.5	0.375	37	641.0
25 Lgt		2.6	1.99	1.99	6.5	0.479	37	502.5
25 Med		3.2	2.41	2.41	6.5	0.580	37	414.9
25 Hvy		4.0	-	2.93	6.5	0.705	37	341.3
32 Xlt	42.4	x 2.0	1.99	1.99	6.5	0.479	37	502.5
32 Lgt		2.6	2.55	2.55	6.5	0.613	37	392.2
32 Med		3.2	3.09	3.09	6.5	0.743	37	323.6
32 Hvy		4.0	-	3.79	6.5	0.911	37	263.9
40 Xlt	48.3	x 2.3	2.61	2.61	6.5	0.628	37	383.1
40 Lgt		2.9	3.25	3.25	6.5	0.782	37	307.7
40 Med		3.2	3.56	3.56	6.5	0.856	37	280.9
40 Hvy		4.0	-	4.37	6.5	1.051	37	228.8
40 X-Hvy		5.4	-	5.71	6.5	1.373	37	175.1
50 Xlt	60.3	x 2.3	3.29	3.29	6.5	0.406	19	304.0
50 Lgt		2.9	4.11	4.11	6.5	0.508	19	243.3
50 Med		3.6	5.03	5.03	6.5	0.621	19	198.8
50 Hvy		4.5	-	6.19	6.5	0.764	19	161.6
50 X-Hvy		5.4	-	7.31	6.5	0.903	19	136.8
65 Xlt	76.1	x 2.3	-	4.19	6.5	0.517	19	238.7
65 Lgt		3.2	5.75	5.75	6.5	0.710	19	173.9
65 Med		3.6	6.44	6.44	6.5	0.795	19	155.3
65 Hvy		4.5	-	7.95	6.5	0.982	19	125.8
65 X-Hvy		5.9	-	10.20	6.5	1.260	19	98.0
80 Xlt	88.9	x 2.6	5.53	5.53	6.5	0.359	10	180.8
80 Lgt		3.2	6.76	6.76	6.5	0.439	10	147.9
80 Med		4.0	8.38	8.38	6.5	0.545	10	119.3
80 Hvy		5.0	-	10.30	6.5	0.670	10	97.1
80 X-Hvy		5.9	-	12.10	6.5	0.786	10	82.6
90 Xlt	101.6	x 2.6	-	6.35	6.5	0.413	10	157.5
90 Lgt		3.2	-	7.77	6.5	0.505	10	128.7
90 Med		4.0	9.63	9.63	6.5	0.626	10	103.8
90 Hvy		5.0	-	11.90	6.5	0.774	10	84.0
100 Xlt	114.3	x 3.2	-	8.77	6.5	0.570	10	114.0
100 Lgt		3.6	9.83	9.83	6.5	0.639	10	101.7
100 Med		4.5	-	12.20	6.5	0.793	10	82.0
100 Hvy		5.4	-	14.50	6.5	0.943	10	69.0
125 Xlt	139.7	x 3.0	-	10.10	6.5	0.460	7	99.0
125 Lgt		3.5	11.80	11.80	6.5	0.537	7	84.7
125 Med		5.0	-	16.60	6.5	0.755	7	60.2
125 Hvy		5.4	-	17.90	6.5	0.814	7	55.9
150 Xlt	165.1	x 3.0	-	12.00	6.5	0.546	7	83.3
150 Lgt		3.5	13.90	13.90	6.5	0.632	7	71.9
150 Med		5.0	-	19.70	6.5	0.896	7	50.8
150 Hvy		5.4	-	21.30	6.5	0.969	7	46.9



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QLD 1300 661 635 • NSW 1300 883 701 • VIC 1300 807 152 • WA 1300 733 791

CHS – Hot-Dip Galvanised

Compliant with AS/NZS 1074:1989. Grade: C250

Some locations also carry
7.2 metre lengths.

Nominal Pipe Size	Dimension		Finish	Std	Tonnes per pack	Lengths per pack	Metres per tonne
	OD	t	HDG	Length			
	mm			m			
15 Med	21.3	x 2.6	1.23	6.5	1.735	217	813.0
20 Xlt	26.9	x 2.0	1.28	6.5	1.057	127	781.3
20 Lgt		2.3	1.44	6.5	1.189	127	694.4
20 Med		2.6	1.60	6.5	1.321	127	625.0
20 Hvy		3.2	1.92	6.5	1.585	127	520.8
25 Xlt	33.7	x 2.0	1.62	6.5	0.958	91	617.3
25 Lgt		2.6	2.05	6.5	1.213	91	487.8
25 Med		3.2	2.46	6.5	1.455	91	406.5
25 Hvy		4.0	2.99	6.5	1.769	91	334.4
32 Xlt	42.4	x 2.0	2.07	6.5	0.821	61	483.1
32 Lgt		2.6	2.63	6.5	1.043	61	380.2
32 Med		3.2	3.17	6.5	1.257	61	315.5
32 Hvy		4.0	3.86	6.5	1.530	61	259.1
40 Xlt	48.3	x 2.3	2.70	6.5	1.071	61	370.4
40 Lgt		2.9	3.33	6.5	1.320	61	300.3
40 Med		3.2	3.64	6.5	1.443	61	274.7
40 Hvy		4.0	4.45	6.5	1.764	61	224.7
50 Xlt	60.3	x 2.3	3.40	6.5	0.818	37	294.1
50 Lgt		2.9	4.21	6.5	1.013	37	237.5
50 Med		3.6	5.14	6.5	1.236	37	194.6
50 Hvy		4.5	6.30	6.5	1.515	37	158.7
65 Xlt	76.1	x 2.3	4.33	6.5	1.041	37	230.9
65 Lgt		3.2	5.89	6.5	1.417	37	169.8
65 Med		3.6	6.57	6.5	1.580	37	152.2
65 Hvy		4.5	8.08	6.5	1.943	37	123.8
80 Xlt	88.9	x 2.6	5.70	6.5	0.704	19	175.4
80 Lgt		3.2	6.92	6.5	0.855	19	144.5
80 Med		4.0	8.54	6.5	1.055	19	117.1
80 Hvy		5.0	10.50	6.5	1.297	19	95.2
90 Xlt	101.6	x 2.6	6.53	6.5	0.806	19	153.1
90 Lgt		3.2	7.95	6.5	0.982	19	125.8
90 Med		4.0	9.81	6.5	1.212	19	101.9
90 Hvy		5.0	12.09	6.5	1.493	19	82.7
100 Xlt	114.3	x 3.2	8.98	6.5	1.109	19	111.4
100 Lgt		3.6	10.04	6.5	1.240	19	99.6
100 Med		4.5	12.39	6.5	1.530	19	80.7
100 Hvy		5.4	14.71	6.5	1.817	19	68.0
125 Xlt	139.7	x 3.0	10.37	6.5	0.876	13	96.4
125 Lgt		3.5	12.01	6.5	1.015	13	83.3
125 Med		5.0	16.86	6.5	1.425	13	59.3
125 Hvy		5.4	18.14	6.5	1.533	13	55.1
150 Xlt	165.1	x 3.0	12.30	6.5	0.800	10	81.3
150 Lgt		3.5	14.25	6.5	0.926	10	70.2
150 Med		5.0	20.04	6.5	1.303	10	49.9
150 Hvy		5.4	21.57	6.5	1.402	10	46.4

Not all branches carry all items listed above and some items are stocked in different lengths to those shown.
Contact your local Steelforce branch to confirm product availability.

Circular Hollow Sections (CHS)

PIPE – Structural CHS

Compliant with AS/NZS 1163:2016. Grade: C350L0

Nominal Pipe Size	Dimension		Finish		Std Length	Lengths per pack	Tonnes per pack	Metres per tonne
	OD	t	DuraGal®	Painted				
	mm		kg/m		m			
100	114.3	x 4.8	-	13.00	9	10	1.170	76.9
		4.8	-	13.00	12	10	1.560	76.9
150	168.3	x 4.8	-	19.40	9	2	0.349	51.5
		4.8	-	19.40	12	2	0.466	51.5
150	168.3	x 6.4	-	25.60	9	2	0.461	39.1
		6.4	-	25.60	12	2	0.614	39.1
200	219.1	x 4.8	-	25.40	9	2	0.457	39.4
		4.8	-	25.40	12	2	0.610	39.4
200	219.1	x 6.4	-	33.60	9	2	0.605	29.8
		6.4	-	33.60	12	2	0.806	29.8

Not all branches carry all items listed above and some items are stocked in different grades and lengths to those shown. Contact your local Steelforce branch to confirm product availability.



Rail

RAIL - Oval Rail

Compliant with AS/NZS 1163:2016. Grade: C350L0

Dimension			Finish		Std Length	Lengths per pack	Tonnes per pack	Metres per tonne
d	b	t	DuraGal®	Painted				
mm			kg/m		m			
53	x 35	x 1.6	1.73	-	6.1	45	0.475	578.0
59	x 30	x 1.6	1.84	-	6.1	45	0.505	543.5
62	x 50	x 2.0	2.88	-	6.1	25	0.439	347.2
75	x 40	x 1.6	2.38	-	6.1	45	0.653	420.2
		2.0	2.97	-	6.1	32	0.580	336.7
88	x 45	x 2.0	3.47	-	6.1	20	0.423	288.2
97	x 40	x 1.6	2.94	-	6.1	18	0.323	340.1
		2.0	3.66	-	6.1	18	0.402	273.2
115	x 42	x 2.0	4.29	4.29	6.1	15	0.393	233.1
		2.5	5.30	5.30	6.1	15	0.485	188.7

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PIPE – ERW Line Pipe

Compliant with API 5LB & AS/NZS 1163:2016. Grade: C350



Pipe Size			Non Schedule	Schedule												
N.B	Inch	O.D		10	20	30	STD	40	60	XS	80	100	120	140	160	XXS
15	1/2	21.3					2.77	2.77		3.73	3.73				4.78	7.47
							1.27	1.27		1.62	1.62				1.95	2.55
20	3/4	26.7					2.87	2.87		3.91	3.91				5.56	7.82
							1.69	1.69		2.20	2.20				2.90	3.64
25	1	33.4					3.38	3.38		4.55	4.55				6.35	9.09
							2.50	2.50		3.24	3.24				4.24	5.45
32	1 1/4	42.2					3.56	3.56		4.85	4.85				6.35	9.70
							3.39	3.39		4.47	4.47				5.61	7.77
40	1 1/2	48.3					3.68	3.68		5.08	5.08				7.14	10.16
							4.05	4.05		5.41	5.41				7.25	9.56
50	2	60.3					3.91	3.91		5.54	5.54				8.74	11.07
							5.44	5.44		7.48	7.48				11.11	13.44
65	2 1/2	73					5.16	5.16		7.01	7.01				9.52	14.02
							8.63	8.63		11.41	11.41				14.90	20.39
80	3	88.9					5.49	5.49		7.62	7.62				11.13	15.24
							11.29	11.29		15.27	15.27				21.35	27.67
90	3 1/2	101.6					5.74	5.74		8.08	8.08					
							13.57	13.57		18.64	18.64					
100	4	114.3	4.78				6.02	6.02		8.56	8.56		11.13		13.49	17.12
			12.91				16.07	16.07		22.32	22.32		28.32		33.54	41.03
125	5	141.3	4.78				6.55	6.55		9.53	9.53		12.7		15.88	19.05
			16.09				21.77	21.77		30.97	30.97		40.28		49.12	57.43
150	6	168.3	4.78	6.35			7.11	7.11		10.97	10.97		14.27		18.26	21.95
			19.28	25.36			28.26	28.26		42.56	42.56		54.2		67.56	79.22
200	8	219.1	4.78		6.35	7.04	8.18	8.18	10.31	12.70	12.70	15.09	18.26	20.62	23.01	22.23
			25.26		33.32	36.82	42.55	42.55	53.08	64.64	64.64	75.92	90.44	100.93	111.27	107.92
250	10	273.1	4.78		6.35	7.8	9.27	9.27	12.70	12.70	15.09	18.26	21.44	25.4	28.57	25.40
			31.63		41.77	51.03	60.31	60.31	81.55	81.55	96.01	114.75	133.06	155.15	172.29	155.15
300	12	323.9			6.35	8.38	9.53	10.31	14.27	12.70	17.48	21.44	25.4	28.57	33.32	25.40
					49.73	65.21	73.89	79.73	108.97	97.47	132.09	159.92	186.98	208.08	238.78	186.98
350	14	355.6			6.35	7.92	9.53	9.53	11.13	15.09	12.70	19.05	23.83	27.79	31.75	35.71
					54.69	67.91	81.33	81.33	94.55	126.72	107.40	158.11	194.98	224.66	253.58	281.72
400	16	406.4			6.35	7.92	9.53	9.53	12.70	16.66	12.70	21.44	26.19	30.96	36.53	40.49
					62.65	77.83	93.27	93.27	123.31	160.13	123.31	203.54	245.57	286.66	333.21	365.38
450	18	457.2			6.35	7.92	11.13	9.53	14.27	19.05	12.70	23.88	29.36	34.93	39.67	45.24
					70.6	87.75	122.44	105.21	155.88	205.84	139.22	255.19	309.78	363.75	408.48	459.62
500	20	508			6.35	9.53	12.7	9.53	15.09	20.62	12.70	26.19	32.54	38.1	44.45	50.01
					78.56	117.15	155.13	117.15	183.43	247.84	155.13	311.19	381.55	441.52	508.15	564.85
600	24	609.6			6.35	9.53	14.27	9.53	17.48	24.61	12.70	30.96	38.89	46.02	52.37	59.54
					94.47	141.03	209.51	141.03	255.25	355.04	186.95	441.80	547.36	639.62	719.68	807.68
650	26	660			7.92	12.7		9.53			12.70					
					127.36	202.73		152.88			202.73					
700	28	711			7.92	12.7	15.88	9.53			12.70					
					137.32	218.71	272.23	164.86			218.71					
750	30	762			7.92	12.7	15.88	9.53			12.70					
					147.29	234.68	292.2	176.85			234.68					
800	32	813			7.92	12.7	15.88	9.53	17.48		12.70					
					157.25	250.65	312.17	188.83	342.94		250.65					
850	34	864			7.92	12.7	15.88	9.53	17.48		12.70					
					167.21	266.63	332.14	200.82	364.92		266.63					
900	36	914			7.92	12.7	15.88	9.53	19.05		12.70					
					176.97	282.28	351.73	212.57	420.45		282.28					
1050	42	1067						9.53			12.70					
								248.53			330.21					
Wall thickness shown in unshaded areas										Weight shown in shaded areas kg/m						

Not all branches stock the above sections. 12m lengths are standard. Non-stock (>400NB) & custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.

- End Preparation - Bevelled Ends in Accordance with API specifications
- All weights (kg/m) are nominal - some minor variation is expected

Galvanised Flats

Grade: C350 – See Dalian Profiles Standard in this guide

Some locations also carry
Hot Dip Galvanised options.

Size	Gauge	Mass kg/m	Std Length	Lengths per Pack	Tonnes per pack	Metres per tonne
20	3.0	0.47	6	90	0.254	2127.7
25	2.5	0.49	6	90	0.265	2040.8
25	3.0	0.59	6	90	0.319	1694.9
32	3.0	0.75	6	90	0.405	1333.3
40	3.0	0.94	6	80	0.451	1063.8
40	5.0	1.57	6	48	0.452	636.9
50	2.5	0.98	6	70	0.412	1020.4
50	3.0	1.17	6	70	0.491	854.7
50	4.0	1.49	6	57	0.510	671.1
50	5.0	1.84	6	45	0.497	543.5
50	6.0	2.36	6	36	0.510	423.7
65	4.0	1.94	6	44	0.512	515.5
65	5.0	2.40	6	36	0.518	416.7
75	4.0	2.24	6	38	0.511	446.4
75	5.0	2.77	6	32	0.532	361.0
75	6.0	3.53	6	28	0.593	283.3
90	6.0	4.24	6	26	0.661	235.8
100	4.0	2.98	6	28	0.501	335.6
100	5.0	3.69	6	28	0.620	271.0
100	6.0	4.71	6	26	0.735	212.3
100	8.0	6.28	6	22	0.829	159.2
130	5.0	4.80	6	28	0.806	208.3
130	6.0	6.12	6	22	0.808	163.4
150	5.0	5.53	6	28	0.929	180.8
150	6.0	7.07	6	24	1.018	141.4
150	8.0	9.42	6	22	1.243	106.2
200	5.0	7.38	6	32	1.417	135.5
200	6.0	9.42	6	28	1.583	106.2
200	8.0	12.60	6	22	1.663	79.4
250	5.0	9.22	6	23	1.272	108.5
250	6.0	11.80	6	19	1.345	84.7
250	8.0	15.70	6	16	1.507	63.7
300	5.0	11.10	6	19	1.265	90.1
300	6.0	14.10	6	16	1.354	70.9
300	8.0	18.80	6	12	1.354	53.2

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.



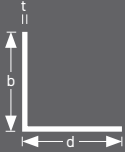
Galvanised Angles

Grade: C350L0 – See Dalian Profiles Standard in this guide

Some locations also carry
Hot Dip Galvanised options.

Size	Gauge	Mass kg/m	Std Length	Lengths per pack	Tonnes per pack	Metres per tonne
25 x 25	2.5	0.93	6	90	0.502	1075.3
25 x 25	3.0	1.12	6	90	0.605	892.9
30 x 30	2.5	1.06	6	80	0.509	943.4
30 x 30	3.0	1.33	6	80	0.638	751.9
40 x 40	2.5	1.43	6	60	0.515	699.3
40 x 40	3.0	1.80	6	60	0.648	555.6
40 x 40	4.0	2.20	6	39	0.515	454.5
45 x 45	2.5	1.62	6	54	0.525	617.3
45 x 45	4.0	2.50	6	36	0.540	400.0
50 x 50	2.5	1.81	6	33	0.358	552.5
50 x 50	3.0	2.28	6	33	0.451	438.6
50 x 50	4.0	2.79	6	27	0.452	358.4
50 x 50	5.0	3.42	9	24	0.739	292.4
50 x 50	6.0	4.21	9	21	0.796	237.5
65 x 65	4.0	3.69	9	22	0.731	271.0
65 x 65	5.0	4.52	9	22	0.895	221.2
65 x 65	6.0	5.62	9	18	0.910	177.9
75 x 75	4.0	4.29	9	22	0.849	233.1
75 x 75	5.0	5.26	9	22	1.041	190.1
75 x 75	6.0	6.56	9	18	1.063	152.4
75 x 75	8.0	8.59	9	18	1.392	116.4
90 x 90	5.0	6.37	9	22	1.261	157.0
90 x 90	8.0	10.50	9	18	1.701	95.2
100 x 100	6.0	8.92	9	16	1.284	112.1
100 x 100	8.0	11.70	9	14	1.474	85.5
75 x 50	4.0	3.54	9	22	0.701	282.5
75 x 50	5.0	4.34	9	22	0.859	230.4
75 x 50	6.0	5.38	9	18	0.872	185.9
100 x 75	6.0	7.74	9	16	1.115	129.2
100 x 75	8.0	10.20	9	16	1.469	98.0
125 x 75	6.0	8.92	12	16	1.713	112.1
125 x 75	8.0	11.70	12	14	1.966	85.5
150 x 100	6.0	11.30	12	16	2.170	88.5
150 x 100	8.0	14.90	12	12	2.146	67.1

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.



GalForce® Profiles

Galvanised Channels

Grade: C350L0 – See Dalian Profiles Standard in this guide

Some locations also carry
Hot Dip Galvanised options.

Size	Gauge	Mass kg/m	Std Length	Lengths per Pack	Tonnes per pack	Metres per tonne
75 x 40	4.0	4.25	9	18	0.689	235.3
100 x 50	4.0	5.59	9	18	0.906	178.9
125 x 65	4.0	7.23	9	18	1.171	138.3
150 x 75	5.0	10.50	9	12	1.134	95.2
180 x 75	5.0	11.60	9	12	1.253	86.2
200 x 75	5.0	12.40	9	12	1.339	80.6
200 x 75	6.0	15.50	9	12	1.674	64.5
230 x 75	6.0	16.90	12	12	2.434	59.2
250 x 90	6.0	19.20	12	8	1.843	52.1
300 x 90	6.0	21.60	12	6	1.555	46.3
300 x 90	8.0	28.50	12	6	2.052	35.1

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.



GalForce® Profiles Range

GalForce® Profiles are light galvanised steel sections that offer the advantage of better protection against the elements over traditional primer painted products. Available in angles, channels, flats, square, rectangular, circular and rail sections.

GalForce® Profiles are galvanised via an electroplating process to a thickness of 50 g/m² per side (Z100).

GalForce® Profiles are manufactured to stringent Standards so you're protected no matter which way you look at it.

GalForce® Profiles is used in a wide variety of applications, limited only by your imagination and no special processes are required for the preparation welding or top coats and they can be powder coated without difficulty.

Ask for GalForce® by name at your nearest outlet.

Processing

In addition to standard lengths featured in this guide, each Steelforce Distribution Centre can provide cutting and drilling services which can save you time and money.

Whether it's a single cut or large project quantities, Steelforce can estimate and quote from your drawings ensuring you maximise savings by minimising waste.

For jobs that require cutting and drilling, Steelforce have access to the latest technology beam lines ensuring accurate work and a quick turnaround.

Flat Bar

Compliant with AS/NZS 3679.1:2016. Grade: 300

Dimension		Std Length	Mass	Lengths per tonne	Metres per tonne
d	t				
mm		m	kg/m		
10	x 3	4	0.24	1041.7	4166.7
13	x 3	4	0.31	806.5	3225.8
	x 5	4	0.52	480.8	1923.1
16	x 5	4	0.64	390.6	1562.5
	x 8	6	1.03	161.8	970.9
20	x 3	6	0.48	347.2	2083.3
	x 5	6	0.80	208.3	1250.0
	x 6	6	0.97	171.8	1030.9
	x 10	6	1.63	102.3	613.6
25	x 3	6	0.60	277.8	1666.7
	x 5	6	1.01	165.8	994.5
	x 6	6	1.21	137.8	826.8
	x 8	6	1.61	103.6	621.4
	x 10	6	2.01	83.0	497.8
	x 12	6	2.42	68.9	413.4
32	x 3	6	0.77	216.5	1298.7
	x 5	6	1.29	129.0	774.3
	x 6	6	1.55	107.7	646.1
	x 8	6	2.06	80.9	485.4
	x 10	6	2.57	64.8	388.7
	x 12	6	3.09	54.0	324.1
40	x 3	6	0.97	171.8	1030.9
	x 5	6	1.61	103.6	621.4
	x 6	6	1.93	86.5	518.9
	x 8	6	2.57	64.8	388.7
	x 10	6	3.22	51.8	310.7
	x 12	6	3.86	43.1	258.8
	x 16	6	5.15	32.4	194.3
	x 20	6	6.44	25.9	155.4
50	x 3	6	1.21	137.7	826.4
	x 5	6	2.01	83.0	497.8
	x 6	6	2.42	68.9	413.4
	x 8	6	3.22	51.8	310.7
	x 10	6	4.03	41.4	248.2
	x 12	6	4.83	34.5	207.1
	x 16	6	6.44	25.9	155.4
	x 20	6	8.05	20.7	124.3
	x 25	6	10.06	16.6	99.5

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.

Steel Solid Sections

Flat Bar

Compliant with AS/NZS 3679.1:2016. Grade: 300

Dimension		Std Length	Mass	Lengths per tonne	Metres per tonne
d	t				
mm		m	kg/m		
65	x 3	6	1.57	106.2	636.9
	x 5	6	2.61	63.8	382.6
	x 6	6	3.14	53.1	318.8
	x 8	6	4.18	39.9	239.1
	x 10	6	5.23	31.9	191.3
	x 12	6	6.27	26.6	159.4
	x 16	6	8.36	19.9	119.6
75	x 20	6	10.46	15.9	95.6
	x 5	6	3.01	55.3	331.8
	x 6	6	3.62	46.1	276.4
	x 8	6	4.83	34.5	207.1
	x 10	6	6.04	27.6	165.6
	x 12	6	7.25	23.0	138.0
	x 16	6	9.66	17.3	103.6
90	x 20	6	12.10	13.8	82.7
	x 25	6	15.07	11.1	66.4
	x 6	6	4.35	38.3	230.1
	x 8	6	5.79	28.8	172.7
	x 10	6	7.25	23.0	138.0
	x 12	6	8.69	19.2	115.0
	x 16	6	12.10	13.8	82.7
100	x 20	6	15.07	11.1	66.4
	x 25	6	20.09	8.3	49.8
	x 5	6	4.03	41.4	248.2
	x 6	6	4.83	34.5	207.1
	x 8	6	6.44	25.9	155.4
	x 10	6	8.05	20.7	124.3
	x 12	6	9.66	17.3	103.6
110	x 16	6	12.92	12.9	77.4
	x 20	6	16.09	10.4	62.1
	x 25	6	20.09	8.3	49.8
	x 6	6	5.31	31.4	188.3
	x 8	6	7.08	23.5	141.2
	x 10	6	8.86	18.8	112.9
	x 12	6	10.66	15.6	93.8
130	x 5	6	5.23	31.9	191.3
	x 6	6	6.27	26.6	159.4
	x 8	6	8.36	19.9	119.6
	x 10	6	10.46	15.9	95.6
	x 12	6	12.51	13.3	80.0
	x 16	6	16.71	10.0	59.9
	x 20	6	20.91	8.0	47.8
	x 25	6	26.14	6.4	38.3



Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.

Flat Bar

Compliant with AS/NZS 3679.1:2016. Grade: 300

d	Dimension		Std Length	Mass	Lengths per tonne	Metres per tonne
	mm	t				
150	x	5	6	6.04	27.6	165.6
	x	6	6	7.25	23.0	138.0
	x	8	6	9.66	17.3	103.6
	x	10	6	12.10	13.8	82.7
	x	12	6	14.45	11.5	69.2
	x	16	6	19.27	8.6	51.9
	x	20	6	24.19	6.9	41.3
	x	25	6	30.14	5.5	33.2
180	x	6	6	8.69	19.2	115.0
	x	8	6	11.59	14.4	86.3
	x	10	6	14.45	11.5	69.2
	x	12	6	17.43	9.6	57.4
	x	16	6	23.17	7.2	43.2
	x	20	6	28.97	5.8	34.5
	x	25	6	36.21	4.6	27.6
	x	6	6	9.66	17.3	103.6
200	x	8	6	12.92	12.9	77.4
	x	10	6	16.09	10.4	62.1
	x	12	6	19.27	8.6	51.9
	x	16	6	25.75	6.5	38.8
	x	20	6	32.19	5.2	31.1
	x	25	6	40.23	4.1	24.9
	x	6	6	12.10	13.8	82.7
	x	8	6	16.09	10.4	62.1
250	x	10	6	20.09	8.3	49.8
	x	12	6	24.19	6.9	41.3
	x	16	6	32.19	5.2	31.1
	x	20	6	40.23	4.1	24.9
	x	25	6	50.29	3.3	19.9
	x	6	6	14.45	11.5	69.2
	x	8	6	19.27	8.6	51.9
	x	10	6	24.19	6.9	41.3
300	x	12	6	29.01	5.7	34.5
	x	16	6	38.62	4.3	25.9
	x	20	6	48.28	3.5	20.7
	x	25	6	60.35	2.8	16.6

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.

Steel Solid Sections

Round Bar

Compliant with AS/NZS 3679.1:2016. Grade: 300

OD	Std Length	Mass	Lengths per tonne	Metres per tonne
mm	m	kg/m		
6	6	0.23	724.6	4347.8
8	6	0.41	406.5	2439.0
10	6	0.63	264.0	1583.8
12	6	0.91	183.3	1099.9
14	6	1.24	134.4	806.3
16	6	1.62	102.9	617.5
18	6	2.04	81.7	490.3
20	6	2.52	66.1	396.6
22	6	3.05	54.6	327.4
24	6	3.64	45.8	274.8
27	6	4.60	36.2	217.3
30	6	5.69	29.3	175.8
33	6	6.88	24.2	145.4
36	6	8.19	20.4	122.1
39	6	9.61	17.3	104.0
42	6	11.17	14.9	89.5
45	6	12.81	13.0	78.0
50	6	15.79	10.6	63.4

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.



Deformed Bar

Compliant with AS/NZS 4671:2019

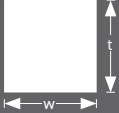
OD	Std Length	Mass	Lengths per tonne	Metres per tonne
mm	m	kg/m		
12	6	0.91	183.1	1098.7
16	6	1.62	102.9	617.5
20	6	2.53	65.8	395.0
24	6	3.64	45.8	274.8

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.



Square Bar

Compliant with AS/NZS 3679.1:2016. Grade: 300



Dimension			Std Length	Mass	Lengths per tonne	Metres per tonne
w		t				
		mm	m	kg/m		
10	x	10	6	0.81	205.8	1234.9
12	x	12	6	1.16	143.9	863.4
16	x	16	6	2.06	80.9	485.4
20	x	20	6	3.22	51.8	310.7
25	x	25	6	5.03	33.1	198.7
32	x	32	6	8.24	20.2	121.4
40	x	40	6	12.81	13.0	78.0
45	x	45	6	16.29	10.2	61.4
50	x	50	6	20.12	8.3	49.7

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.

Unbeatable delivery

Steelforce prides itself on a prompt and reliable delivery service in both metro and regional areas.

Our dedicated fleet of trucks ensures suitable vehicles are always available to ensure your orders are delivered when you need them.

Generally, any orders received by 5pm will be delivered the next business day....

When you need your gear fast....

Don't waste time, talk to Steelforce first!

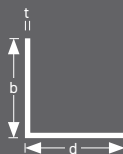
Angles

Equal Angles

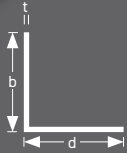
Compliant with AS/NZS 3679.1:2016. Grade: 300

Some locations also carry 6.0, 7.5, 9 and 12 metre lengths in some sizes.

Dimension				Std Length	Mass	Lengths per tonne	Metres per tonne
d	b	t					
mm				m	kg/m		
20	x	20	x	3	6	0.92	1087.0
25	x	25	x	3	6	1.12	892.9
				5	7.5	1.65	606.1
				6	7.5	2.08	480.8
30	x	30	x	3	7.5	1.35	740.7
				5	7.5	2.01	497.5
				6	7.5	2.56	390.6
40	x	40	x	3	7.5	1.83	546.4
				5	7.5	2.73	366.3
				6	7.5	3.50	285.7
45	x	45	x	3	9	2.06	485.4
				5	9	3.10	322.6
				6	9	3.97	251.9
50	x	50	x	3	9	2.31	432.9
				5	9	3.48	287.4
				6	9	4.46	224.2
				8	9	5.68	176.1
55	x	55	x	5	9	3.84	260.4
				6	9	4.93	202.8
				6	9	5.87	170.4
65	x	65	x	5	9	4.56	219.3
				6	9	5.87	170.4
				8	9	7.51	133.2
				10	9	9.02	110.9
75	x	75	x	5	9	5.27	189.8
				6	9	6.81	146.8
				8	9	8.73	114.5
				10	9	10.50	95.2
90	x	90	x	6	9	8.22	121.7
				8	9	10.60	94.3
				10	9	12.70	78.7
100	x	100	x	6	9	9.16	109.2
				8	9	11.80	84.7
				10	9	14.20	70.4
				12	9	17.70	56.5
125	x	125	x	8	12	14.90	67.1
				10	12	18.00	55.6
				12	12	22.50	44.4
				16	12	29.10	34.4
150	x	150	x	10	12	21.90	45.7
				12	12	27.30	36.6
				16	12	35.40	28.2
				19	12	42.10	23.8



Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.



Equal Angles

Compliant with AS/NZS 3679.1:2016. Grade: 300

Some locations also carry 6.0, 7.5, 9 and 12 metre lengths in some sizes.

Dimension				Std Length	Mass	Lengths per tonne	Metres per tonne
d		b	t				
mm				m	kg/m		
200	x	200	x 13	12	40.00	2.1	25.0
			16	12	48.70	1.7	20.5
			18	12	54.40	1.5	18.4
			20	12	60.10	1.4	16.6
			26	12	76.80	1.1	13.0

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.

Unequal Angles

Compliant with AS/NZS 3679.1-300. Grade: 300

Some locations also carry 6.0, 7.5, 9 and 12 metre lengths in some sizes.

Dimension				Std Length	Mass	Lengths per tonne	Metres per tonne
d		b	t				
mm				m	kg/m		
65	x	50	x 5	9	4.02	27.6	248.8
			6	9	5.16	21.5	193.8
			8	9	6.59	16.9	151.7
75	x	50	x 5	9	4.40	25.3	227.3
			6	9	5.66	19.6	176.7
			8	9	7.23	15.4	138.3
100	x	75	x 6	9	7.98	13.9	125.3
			8	9	10.30	10.8	97.1
			10	9	12.40	9.0	80.6
125	x	75	x 6	12	9.16	9.1	109.2
			8	12	11.80	7.1	84.7
			10	12	14.20	5.9	70.4
			12	12	17.70	4.7	56.5
150	x	90	x 10	12	17.30	4.8	57.8
			12	12	21.60	3.9	46.3
150	x	100	x 10	12	18.00	4.6	55.6
			12	12	22.50	3.7	44.4

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.

Parallel Flange Channel (PFC)

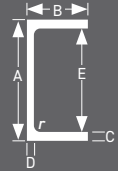
Parallel Flange Channel

Compliant with AS/NZS 3679.1:2016. Grade: 300

Depending on section size available
in 6, 7.5, 9, 10.5, 12, 13.5, 15, 16.5, 18
metre lengths - varies by branch.

Section Designation	Section Mass	Section Depth (A)	Section Flange Width (B)	Section Flange Thickness (C)	Section Web Thickness (D)	Section Root Radius (r)	Section Depth Between Flanges (E)	Metres per tonne
	kg/m	mm	mm	mm	mm	mm	mm	
75 PFC	5.90	75	40	6.1	3.8	8	62.8	169.5
100 PFC	8.31	100	50	6.7	4.2	8	86.6	120.3
125 PFC	11.90	125	65	7.5	4.7	8	110	84.0
150 PFC	17.70	150	75	9.5	6.0	10	131	56.5
180 PFC	20.90	180	75	11.0	6.0	12	158	47.8
200 PFC	22.90	200	75	12.0	6.0	12	176	43.7
230 PFC	25.10	230	75	12.0	6.5	12	206	39.8
250 PFC	35.50	250	90	15.0	8.0	12	220	28.2
300 PFC	40.10	300	90	16.0	8.0	14	268	24.9
380 PFC	55.20	380	100	17.5	10.0	14	345	18.1

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.



Service

In tough times many companies cut their most valuable resource, meaning customer service suffers.

At Steelforce, our people have many years of industry experience and can offer you the advice you need and the important attention to detail you want to ensure you receive the right product at the most competitive price.

When it comes to decision making, flexibility and on the spot answers, the Steelforce team is better equipped to give you the solutions you need in the time you require them.

Universal Columns

Compliant with AS/NZS 3679.1:2016. Grade: 300

Available in 9, 10.5, 12, 13.5, 15, 16.5, 18 metre lengths.

Section Designation	Section Mass	Section Depth (A)	Section Flange Width (B)	Section Flange Thickness (C)	Section Web Thickness (D)	Section Root Radius (r)	Section Depth Between Flanges (E)	Metres per tonne
	kg/m	mm	mm	mm	mm	mm	mm	
100 UC	14.8	97.0	99	7.0	5.0	10.0	83.0	67.6
	23.4	152.4	152	6.8	6.1	8.9	138.8	42.7
150 UC	30.0	157.6	153	9.4	6.6	8.9	138.8	33.3
	37.2	161.8	154	11.5	8.1	8.9	138.8	26.9
200 UC	46.2	203.4	203	11.0	7.3	11.4	181.4	21.6
	52.2	206.4	204	12.5	8.0	11.4	181.4	19.2
	59.5	209.8	205	14.2	9.3	11.4	181.4	16.8
250 UC	72.9	253.8	254	14.2	8.6	14.0	225.4	13.7
	89.5	260.0	256	17.3	10.5	14.0	225.4	11.2
	96.8	308.0	305	15.4	9.9	16.5	277.2	10.3
310 UC	118	314.6	307	18.7	11.9	16.5	277.2	8.5
	137	320.6	309	21.7	13.8	16.5	277.2	7.3
	158	327.2	311	25.0	15.7	16.5	277.2	6.3

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.

Welded Columns (WC)

Welded Columns

Compliant with AS/NZS 3679.2:2016. Grade: 300

Available in 9, 10.5, 12, 13.5, 15, 16.5, 18 metre lengths.

Section Designation	Section Mass	Section Depth (A)	Section Flange Width (B)	Section Flange Thickness (C)	Section Web Thickness (D)	Section Depth Between Flanges (E)	Metres per tonne
	kg/m	mm	mm	mm	mm	mm	
350 WC	197	331	350	28.0	20.0	275	5.1
	230	339	350	32.0	25.0	275	4.3
	258	347	350	36.0	28.0	275	3.9
	280	355	350	40.0	28.0	275	3.6
	144	382	400	16.0	16.0	350	6.9
	181	390	400	20.0	20.0	350	5.5
400 WC	212	400	400	25.0	20.0	350	4.7
	270	414	400	32.0	25.0	350	3.7
	303	422	400	36.0	28.0	350	3.3
	328	430	400	40.0	28.0	350	3.0
	361	430	400	40.0	40.0	350	2.8
	228	490	500	20.0	20.0	450	4.4
	267	500	500	25.0	20.0	450	3.7
	290	506	500	28.0	20.0	450	3.4
500 WC	340	514	500	32.0	25.0	450	2.9
	383	472	500	36.0	32.0	400	2.6
	414	480	500	40.0	32.0	400	2.4
	440	480	500	40.0	40.0	400	2.3

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.

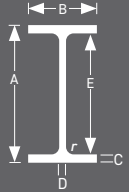
Universal Beams (UB)

Universal Beams

Compliant with AS/NZS 3679.1:2016. Grade: 300

Available in 9, 10.5, 12, 13.5, 15, 16.5 and 18 metre lengths.

Section Designation	Section Mass	Section Depth (A)	Section Flange Width (B)	Section Flange Thickness (C)	Section Web Thickness (D)	Section Root Radius (r)	Section Depth Between Flanges (E)	Metres per tonne
	kg/m	mm	mm	mm	mm	mm	mm	
150 UB	14.0	150.0	75	7.0	5.0	8.0	136.0	71.4
	18.0	155.0	75	9.5	6.0	8.0	136.0	55.6
180 UB	16.1	173.0	90	7.0	4.5	8.9	159.0	62.1
	18.1	175.0	90	8.0	5.0	8.9	159.0	55.2
200 UB	22.2	178.8	90	10.0	6.0	8.9	159.0	45.0
	18.2	198.0	99	7.0	4.5	11.0	184.0	54.9
	22.3	201.6	133	7.0	5.0	8.9	187.6	44.8
	25.4	203.2	133	7.8	5.8	8.9	187.6	39.4
250 UB	29.8	207.0	134	9.6	6.3	8.9	187.6	33.6
	25.7	248.0	124	8.0	5.0	12.0	232.0	38.9
	31.4	251.6	146	8.6	6.1	8.9	234.4	31.8
	37.3	256.2	146	10.9	6.4	8.9	234.4	26.8
310 UB	32.0	298.0	149	8.0	5.5	11.4	282.0	31.3
	40.4	304.0	165	10.2	6.1	11.4	283.6	24.8
	46.2	307.2	166	11.8	6.7	11.4	283.6	21.6
360 UB	44.7	352.0	171	9.7	6.9	11.4	332.6	22.4
	50.7	355.6	171	11.5	7.3	11.4	332.6	19.7
	56.7	358.6	172	13.0	8.0	11.4	332.6	17.6
	53.7	402.6	178	10.9	7.6	11.4	380.8	18.6
410 UB	59.7	406.4	178	12.8	7.8	11.4	380.8	16.8
	67.1	453.8	190	12.7	8.5	11.4	428.4	14.9
460 UB	74.6	457.4	190	14.5	9.1	11.4	428.4	13.4
	82.1	460.4	191	16.1	9.9	11.4	428.4	12.2
530 UB	82.0	528.2	209	13.2	9.6	14.0	501.8	12.2
	92.4	533.0	209	15.6	10.2	14.0	501.8	10.8
	101	602.0	228	14.8	10.6	14.0	572.4	9.9
610 UB	113	607.0	228	17.3	11.2	14.0	572.4	8.8
	125	611.6	229	19.6	11.9	14.0	572.4	8.0

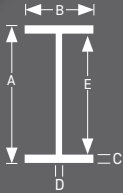


Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.

Welded Beams

Compliant with AS/NZS 3679.2:2016. Grade: 300

Available in 9, 10.5, 12, 13.5, 15, 16.5 and 18 metre lengths.



Section Designation	Section Mass	Section Depth (A)	Section Flange Width (B)	Section Flange Thickness (C)	Section Web Thickness (D)	Section Depth Between Flanges (E)	Metres per tonne
	kg/m	mm	mm	mm	mm	mm	
700 WB	115	692	250	16	10	660	8.7
	130	700	250	20	10	660	7.7
	150	710	250	25	10	660	6.7
	173	716	275	28	10	660	5.8
800 WB	122	792	250	16	10	760	8.2
	146	800	275	20	10	760	6.8
	168	810	275	25	10	760	6.0
	192	816	300	28	10	760	5.2
900 WB	175	900	300	20	12	860	5.7
	218	910	350	25	12	860	4.6
	257	916	400	28	12	860	3.9
	282	924	400	32	12	860	3.5
1000 WB	215	1000	300	20	16	960	4.7
	258	1010	350	25	16	960	3.9
	296	1016	400	28	16	960	3.4
	322	1024	400	32	16	960	3.1
1200 WB	249	1170	275	25	16	1120	4.0
	278	1170	350	25	16	1120	3.6
	317	1176	400	28	16	1120	3.2
	342	1184	400	32	16	1120	2.9
	392	1184	500	32	16	1120	2.6
	423	1192	500	36	16	1120	2.4
	455	1200	500	40	16	1120	2.2

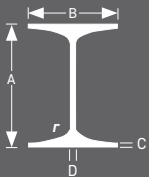
Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.

Tapered Flange Beams (TFB)

Tapered Flange Beams

Compliant with AS/NZS 3679.1:2016. Grade: 300

Available in 9 and 12 metre lengths.



Section Designation	Section Mass	Section Depth (A)	Section Flange Width (B)	Section Flange Thickness (C)	Section Web Thickness (D)	Section Root Radius (r)	Metres per tonne
	kg/m	mm	mm	mm	mm	mm	
100 TFB	7.20	100.0	45	6.0	4	7	138.9
125 TFB	13.10	125.0	65	8.5	5	8	76.3

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.

Plain Plates

Plain Plate

Compliant with AS/NZS 1594:2002. Grade: 250 and AS/NZS 3678:2016. Grade: 250

Thickness	Mass	Lineal Metre of Plate Width (kg)			
mm	kg/m ²	1200 mm	1500 mm	1800 mm	2400 mm
3	23.55	28.26	35.33	42.39	-
4	31.40	37.68	47.10	56.52	-
5	39.25	47.10	58.88	70.65	94.20
6	47.10	56.52	70.65	84.78	113.04
8	62.80	75.36	94.20	113.04	150.72
10	78.50	94.20	117.75	141.30	188.40
12	94.20	113.04	141.30	169.56	226.08
16	125.60	150.72	188.40	226.08	301.44
20	157.00	188.40	235.50	282.60	376.80
22	172.70	207.24	259.05	310.86	414.48
25	196.25	235.50	294.38	353.25	471.00
28	219.80	263.76	329.70	395.64	527.52
32	251.20	301.44	376.80	452.16	602.88
36	282.60	339.12	423.90	508.68	678.24
40	314.00	376.80	471.00	565.20	753.60
45	353.25	423.90	529.88	635.85	847.80
50	392.50	471.00	588.75	706.50	942.00
55	431.75	518.10	647.63	777.15	1036.20
60	471.00	565.20	706.50	847.80	1130.40
65	510.25	612.00	765.00	918.00	1224.00
70	549.50	659.40	824.25	989.10	1318.80
75	588.75	706.50	883.13	1059.75	1413.00
80	628.00	753.60	942.00	1130.40	1507.20
90	706.50	847.80	1059.75	1271.70	1695.60
100	785.00	942.00	1177.50	1413.00	1884.00

Not all branches stock the above thicknesses and sizes, in particular, thicknesses >25mm and 1800mm/ 2400mm widths. Non-stock and custom items are subject to Min Order Qties (MOQ's). Contact your local Steelforce branch to confirm product availability.

Floor Plates

Floor Plates

Compliant with AS/NZS 3678:2011. Grade: 250

Thickness	Mass	Lineal Metre of Plate Width (kg)	
mm	kg/m	1200 mm	1500 mm
2.1	18.49	22.19	-
3	25.55	30.66	38.33
5	41.25	49.50	61.88
6	49.10	58.92	73.65

Not all branches stock the above grades, sections and lengths. Non-stock and custom length items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.

Steel Sheet

Compliant with relevant Australian Standards

Hot Rolled		Cold Rolled		Galvabond Sheet		Zincanneal Sheet	
Thickness mm	kg/m ²	Thickness mm	kg/m ²	Thickness mm	kg/m ²	Thickness mm	kg/m ²
0.40	-	0.40	-	0.40	3.43	0.40	-
0.45	-	0.45	-	0.45	3.82	0.45	-
0.50	-	0.50	-	0.50	4.22	0.50	4.06
0.55	-	0.55	-	0.55	4.61	0.55	4.45
0.60	-	0.60	4.71	0.60	5.00	0.60	-
0.70	-	0.70	-	0.70	5.79	0.70	5.63
0.75	-	0.75	-	0.75	6.18	0.75	6.02
0.80	-	0.80	6.28	0.80	6.57	0.80	6.41
0.90	-	0.90	-	0.90	7.36	0.90	7.19
0.95	-	0.95	-	0.95	7.75	0.95	7.59
1.00	-	1.00	7.85	1.00	8.14	1.00	7.98
1.10	-	1.10	-	1.10	8.92	1.10	8.77
1.15	-	1.15	-	1.15	9.32	1.15	9.16
1.20	-	1.20	9.42	1.20	9.71	1.20	9.55
1.40	-	1.40	-	1.40	-	1.40	11.12
1.50	11.77	1.50	11.78	1.50	12.07	1.50	11.91
1.55	-	1.55	-	1.55	12.46	1.55	12.29
1.60	12.56	1.60	12.56	1.60	12.85	1.60	12.69
1.90	-	1.90	-	1.90	15.21	1.90	15.05
1.95	15.30	1.95	-	1.95	15.59	1.95	15.44
2.40	18.84	2.40	-	2.40	19.13	2.40	-
2.45	-	2.45	883.13	2.45	19.52	2.45	-
2.50	19.63	2.50	19.63	2.50	-	2.50	-
2.90	22.77	2.90	-	2.90	23.06	2.90	-
2.95	23.16	2.95	-	2.95	-	2.95	-
3.00	23.55	3.00	23.55	3.00	-	3.00	-

Not all branches stock the above grades, thicknesses and sizes. Non-stock and custom items are subject to Minimum Order Quantities (MOQ's). Contact your local Steelforce branch to confirm product availability.

Manufacturing Standards

Standard	Description
AS 1074	Steel tubes and tubulars for ordinary service
AS/NZS 1163*	Cold-formed structural steel hollow sections
AS/NZS 1594	Hot-rolled steel flat products
AS/NZS 3678	Structural steel – Hot rolled plates, floor plates and slabs
AS/NZS 3679.1	Structural steel – Hot rolled bars & sections
AS/NZS 3679.2	Structural Steel – Welded Sections

Dalian Profile Standards

General

Dalian Profiles are supplied as cold rolled and electroplated.

Chemical Composition

Profile	Chemical Composition - % Max						
	C	Si	Mn	P	S	B	CE
Angles/Channels	0.20	0.03	1.6	0.03	0.03	0.10	0.43
Flats	0.20	0.03	1.6	0.03	0.03	0.10	0.43

Note: The carbon equivalent (CE) is determined in accordance with the equation from AS/NZS 1163:2016. Grade: C350LO
$$CE = C + Mn/6 + (Cr+Mo+V)/5 + (Ni+Cu)/15$$

Mechanical Properties

Profile	Minimum Yield Strength (Mpa)	Minimum Tensile Strength (Mpa)	Minimum Elongation
Angles	350	400	22
Channels	350	400	22
Flats	350	400	18

Note: Test specimens are to be taken longitudinally from a major flat portion of the section. Test frequency is as per AS/NZS 1163:2016. The yield, tensile and elongation will be determined in accordance with AS 1391, with samples artificially aged to a temperature of 180 degrees for a period of not less than 15 minutes.

Impact Testing

Impact testing as described in Section 10 of AS/NZS 1163:2016 is performed at 0°C in accordance with AS 1544.2 on all profiles (flats, angles and channels) with a nominal thickness of 6 mm or greater.

Coating Thickness

All profiles are electroplated to a thickness of 50 grams per square metre per side (Z100). The profiles are then coated with a solvent based Clearcote to a thickness averaging between 14 and 20 microns.

Surface Finish

Product shall be free from lamination, surface flaws and other defects detrimental to its use for structural purposes.

Length

Angles and Channels are available in 6 and 9 metre lengths. Flats are available in 6 metre lengths. Non-standard lengths by inquiry.

End Condition

Profiles are supplied with mill cut ends. End coding is applied in accordance with AS/NZS 4496:1997.

Straightness

Profiles will be supplied to a straightness of 1mm in 500mm measured as follows:-



The straightness will be calculated by measuring the horizontal deviation (a) over the ordered profile length (L), i.e. (a) L/500.

Corner Radius

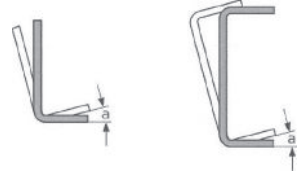
Corner radius is 2 times gauge plus or minus 0.5mm

Squareness

The maximum out of squareness of a profile will be plus or minus 1.5 degrees.

Twist

The maximum angle of twist of a profile (a) will be 1 degree in 1 metre.



Flatness of Sides

The flatness of any side (a) will be limited to less than 0.8% of the width of that side or 0.5mm, whichever is the greater.



Dimensions

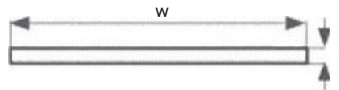
The maximum variation in leg and web dimensions of angles and channels will not exceed 1.5mm. For the maximum variation in width of flats refer section 16 below.

Gauge

The maximum variation in thickness of all profiles will not exceed plus or minus 10%.

Width of Flats

The variation of the width (W) dimension of flats, where (t) is the designated thickness, are as follows:-



Specified Width - W (mm)	Width Tolerance (mm)
40 < W ≤ 100	± 0.50
100 < W ≤ 200	± 0.75
200 < W ≤ 400	± 1.00
400 < W ≤ 600	± 1.50

Dalian Precision Tube Standard

Manufacturing Tolerances

Chemical Composition

C	Si	Mn	P	S	CE
≤ 0.220	≤ 0.500	≤ 1.600	≤ 0.045	≤ 0.045	≤ 0.49

The carbon equivalent (CE) is determined in accordance with the equation from AS 1450: 2007, i.e. $CE = C + Mn/6 + (Cr + Mo + V)/5 + (Cu + Ni)/15$

Full chemical analysis to be shown on Test Certificates.

Mechanical Properties

Grade	Minimum Yield Strength (Mpa)	Minimum Tensile Strength (Mpa)	Minimum Elongation %
C250	250	320	18

The mechanical tests - yield, tensile and elongation - will be carried out in accordance with AS 1391. Prior to tensile testing, the test pieces shall be aged by heating to a temperature between 150°C and 200°C for not less than 15 min.

Elongation results shall be reported on a gauge length $L_0 = 5.65\sqrt{S_0}$ where S_0 is the original cross-sectional area of the test piece before testing.

Test specimens are to be taken longitudinally from a major flat portion of the section.

Test frequency is as per AS 1450-2007.

Finish Coating

RHS and SHS – blue paint.

Pipe – black paint.

Pregal – zinc coated coil with Clearcote coating applied.

Coating Thickness

Painted product – minimum paint thickness of 9 microns

Pregal product – average zinc thickness of 50 grams per square metre per side (Z100).

– minimum Clearcote thickness of 9 microns.

Surface Finish

Product shall be free from lamination, surface flaws and other defects detrimental to its use.

Length tolerance

-0mm + 15mm (Standard lengths 6.5 and 8 metres)

End Condition

Products are supplied with mill cut ends with burr held to a minimum. End coding is applied in accordance with AS/NZS 4496:1997.

Straightness

The maximum permissible variation from straightness shall not exceed:

Specified length

500

Corner Radius

Outside corner radius is $2 \times \text{gauge} \pm 0.5 \text{ mm}$, i.e. $2t \pm 0.5 \text{ mm}$

Squareness of Sides

Maximum permissible is $90^\circ \pm 1^\circ$

Twist

Maximum permissible is $2 \text{ mm} + 0.5 \text{ mm/m length}$

External Dimensions

RHS and SHS - $\pm 1\%$

CHS - $+ 0.1 \text{ mm}$, $- 0.3 \text{ mm}$

Gauge

The maximum variation in thickness of all products will not exceed $\pm 10\%$.

Concavity/Convexity

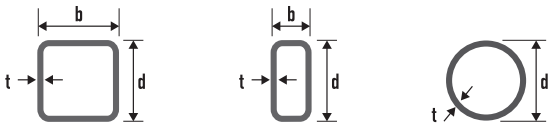
Maximum 0.8% or 5 mm , whichever is greater

Cold Flattening Test Piece

The test piece shall be taken in the form of a cross-section from one end of a finished length of a circular tube which contains a longitudinal weld. The length of the test piece shall be not less than 40 mm . All burrs shall be removed before testing. The test piece shall be cut in the transvers direction.

Pipe & Tube Tolerances

Hollow Sections – Standard Grades include: C250, C250L0, C350 * C350L0.



Characteristic	Circular Hollow Sections	Square & Rectangular Hollow Sections
External Dimensions (d, b, do)	±1% minimum of ±0.5 mm and maximum of ±10 mm	Minimum of ±0.5 mm
Thickness (t)	±10%	±10%
Out-of-roundness (o)	±2% for hollow sections having a diameter to thickness ratio not exceeding 100 (see note 1)	≤2mm + 0.5 mm per meter length
Concavity/convexity (see note 2)	-	maximum 0.8% or 0.5 mm whichever is greater
Squareness of sides	-	90 degrees ±1 degree
Corner Radius	-	<50x50 1.5t to 3.0t >50x50 1.8t to 3.0t
Twist (v)	-	≤2mm + 0.5mm per metre length
Straightness (a)	a ≤0.2% of total length (in mm)	a ≤0.15% of total length (in mm)
Length	-0 mm +20 mm	-0 mm +20 mm
Mass	no less than 0.96 x specified mass	no less than 0.96 x specified mass

Notes:

- 1 Where the diameter to thickness exceeds 100, the tolerance on out-of-roundness becomes the subject of agreement between the manufacturer and purchaser.
- 2 The tolerance on concavity and convexity is independent of the tolerance on external dimensions.
- 3 The straightness tolerance applies to straightness in any one plane.
- 4 In lieu of any other requirement, the specified mass is considered to be the nominal mass.



According to AS 3679.1:2016

Permissible Variations in Cross-Sectional Dimensions for Rounds and Squares (mm)							
Specified Size (diameter or thickness)				Permissible variation from specified size		Permissible out-of-round or out-of-square	
≤	25			+	0.25	-	0.25
>	25	≤	30	+	0.30	-	0.30
>	30	≤	40	+	0.40	-	0.40
>	40	≤	50	+	0.50	-	0.50
>	50	≤	60	+	0.60	-	0.60
>	60	≤	70	+	0.70	-	0.70
>	70	≤	80	+	0.80	-	0.80
>	80	≤	100	+	0.90	-	0.90

Width Tolerances for Flats (mm)							
Specified width				Width tolerance			
≤	25			+	0.40	-	0.40
>	25	≤	50	+	0.80	-	0.80
>	50	≤	100	+	1.60	-	0.80
>	100	≤	150	+	2.40	-	1.60
>	150	≤	200	+	3.20	-	3.20
>	200	≤	300	+	3.20	-	3.20

Thickness Tolerances for Flats (mm)											
Specified width				Thickness tolerance (plus or minus)							
				Specified thickness							
				<6	≥6	<12	≥12	<25	≥25	<50	≥50
≤	25			0.20	0.20	0.25	-	-			
>	25	≤	50	0.20	0.30	0.40	0.80	-			
>	50	≤	100	0.20	0.40	0.50	0.80	1.2			
>	100	≤	150	0.25	0.40	0.50	0.80	1.6			
>	150	≤	200	0.25	0.40	0.50	0.80	-			
>	200	≤	300	-	0.40	0.50	0.80	-			

Permissible Variations in Cross-Sectional Dimensions for Angles - Tolerance On Leg Length and Out-Of-Square (mm)							
Nominal leg size				Permissible variation			
				Leg Length		Out-of-square (s)	
				Over	Under		
≤	40			2.5	1.50	0.25	
>	40	≤	75	2.5	1.50	0.40	
>	75	≤	125	3.0	3.00	0.50	
>	125	≤	150	3.0	3.00	0.50	
>	150			5.0	3.00	0.50	

Permissible Variations in Cross-Sectional Dimensions for Angles - Thickness Tolerance (mm)							
Nominal leg size				Permissible variation			
≤	10			+	0.5	-	0.50
>	10	≤	15	+	0.7	-	0.70
>	15	≤	25	+	1.0	-	1.00
>	25			+	1.5	-	1.50

Other Information

Length Capabilities

Overall manufactured length capabilities of Dalian products are as follows. Not all products are able to be rolled to the minimum and maximum as listed below – refer to your Sales Representative for more information.

- Minimum Rolling Length 5 m
- Maximum Rolling Length 12 m

See Mill Processing for lengths shorter than 5 m.

Special Lengths

Dalian can roll special length orders within its manufactured length capabilities. A minimum order quantity (MOQ) may apply. See Mill Processing below for lengths shorter than 5 m.

Mill Processing

Steelforce offers a pack cutting service if you require lengths less than the minimum manufactured length capability (5 m). Please contact your local sales representative for pricing, terms and conditions.

Coating

- DuraGal®
- Clear
- Painted - Blue, Black, Red
- NOPC (no oil, paint or coatings)

Product Related Abbreviations

Legend	
b	Breadth
d	Depth
Gal	Galvanised
H	Heavy
HDG	Hot Dip Galvanised
kg/m	Kilograms per metre
L	Light
M	Medium

Legend	
MOQ	Minimum Order Quantity
m	Metres
mm	Millimetres
OD	Outside Diameter
Std	Standard
t	Thickness
XH	Extra Heavy
XL	Extra Light

Galforce® Profiles Coating

GalForce® Profiles Coating has a Z100 zinc coating which equates to 50 grams per square metre per side.

DuraGal® Coating

DuraGal® coating or equivalent Pre-Gal coating has a Z200 zinc coating which equates to 100 grams per square metre per side.

Pre-Gal and DuraGal® sections are coated with a clearcoat finish.

ZB135 DuraGal® Plus pricing, MOQs and lead times available upon request.

The use of sustainable materials in modern Australian building construction is critical for current and future generations. Steelforce is dedicated to conducting our business to global environmental, social and commercial standards. Our commitment to the environment includes sourcing our products from environmentally responsible Australian and overseas steel mills.

Key measures of sustainability and environmentally responsible management we seek from each mill we source from includes:

- A current valid and certified ISO 14001 Environmental Management System (EMS) in place for the manufacturing facility where the steel is produced.
- A current member of the World Steel Association's (WSA) Climate Action Programme (CAP).
- A current Environmental Product Declaration (EPD) developed in accordance with ISO 14025 and EN 15804. An EPD is a standardised and verified way of quantifying the environmental impacts of a product based on a consistent set of rules known as PCR (Product Category Rules).

Steelforce is able to supply specific sustainability information in relation to our mill suppliers which is often required for various sustainability rating systems used in building and construction.

Contact your local Steelforce branch or sales representative for further information.

Certification

Steelforce products are sourced from both Australia and overseas mills that are accredited to the internationally recognised ISO 9001 Quality Management standard. To ensure the products meet relevant Australian Standards we require supplier mills to be third party certified via a credible independent body such as ACRS, which is recognised by the Joint Accreditation System for Australia and New Zealand (JAS-ANZ).

For further information on Steelforce manufacturing and product certification refer to our website www.steelforce.com.au or contact your local Steelforce branch.



Birmingham Gauge Converter

Inch Equiv. to mm	Thickness as inch fraction	Thickness (mm)	BG	Inch Equiv. to BG
0.3937	3/8	10.0	0	0.3964
0.3543		9.0	1	0.3532
0.3150	5/16	8.0	2	0.3147
0.2756		7.0	3	0.2804
0.2632	1/4	6.0	4	0.2500
0.2165		5.5	5	0.2225
0.1969	3/16	5.0	6	0.1981
0.1772		4.5	7	0.1764
0.1575	5/32	4.0	8	0.1570
0.1378		3.5	9	0.1398
0.1181	1/8	3.0	10	0.1250
0.1378		3.5	9	0.1398
0.0984	3/32	2.5	12	0.0991
0.1378		3.5	9	0.1398
0.0787	5/64	2.0	14	0.0785
0.1378		3.5	9	0.1398
0.0630	1/16	1.6	16	0.0625
0.1378		3.5	9	0.1398
0.0472	3/64	1.2	18	0.0495
0.1378		3.5	9	0.1398
0.0394		1.0	20	0.0392
0.1378		3.5	9	0.1398
0.0315	1/32	0.80	22	0.0313
0.1378		3.5	9	0.1398
0.0236		0.60	24	0.0248
0.1378		3.5	9	0.1398
0.0197		0.50	26	0.0196
0.1378		3.5	9	0.1398
0.0157	1/64	0.40	28	0.0156
0.1378		3.5	9	0.1398
0.0118		0.30	30	0.0123
0.1378		3.5	9	0.1398
0.0098		0.25	32	0.0098
0.1378		3.5	9	0.1398
0.0079		0.20	34	0.0077
0.1378		3.5	9	0.1398
0.0063		0.16	36	0.0061
0.1378		3.5	9	0.1398
0.0047		0.12	38	0.0048
0.1378		3.5	9	0.1398
0.0039		0.10	40	0.0039

To calculate the mass of mild steel plate & flat:

Length x Width x thickness x 7850

Eg: For a 10 mm plate @ 2400 mm x 1700 mm

$$2.4 \times 1.7 \times 0.01 \times 7850 = 320.28 \text{ kg}$$

For a 200 x 6 flat bar @ 1200 mm

$$1.2 \times 0.2 \times 0.006 \times 7850 = 11.304 \text{ kg}$$

Note:

- Most price books have an extra 2.5% added onto the weight of merchant bar as a rolling tolerance.
- Add 2 kg per square metre for floorplate.
- To calculate the mass of aluminium:
Length x width x thickness x 2710 kg

* To calculate the mass of stainless steel:

$$\text{Length} \times \text{width} \times \text{thickness} \times 8000 \text{ kg}$$

To calculate the mass of black round pipe & tube per metre:

Outside Diameter — wall thickness x wall thickness x 0.0246615

Eg: For a 219.1 mm diameter x 6.4 mm wall thickness line pipe

$$219.1 - 6.4 \times 6.4 \times 0.0246615 = 33.57 \text{ kg/metre}$$

For 25nb med blk pipe

$$33.7 - 3.2 \times 3.2 \times 0.0246615 = 2.4 \text{ kg/metre}$$

Note:

- Most price books have an extra 2.5% added onto the weight of pipe as rolling tolerance.

To calculate the mass of round bar per metre:

Diameter squared x 0.7854 x 7850 kg

Eg: For 50 mm round bar

$$0.05 \times 0.05 \times 0.7854 \times 7850 = 15.41 \text{ kg/metre}$$

To calculate the circumference of a circle:

Diameter x 3.1416

Eg: For a diameter of 350 mm

$$350 \times 3.1416 = 1099.56 \text{ mm}$$

To calculate the diagonal length corner to corner in a square or rectangle: (Hypotenuse)

Length squared + breadth squared = ? then square root

Eg: For a rectangle 1200 mm x 2400 mm

$$1200 \times 1200 = 1440000$$

+

$$2400 \times 2400 = 5760000$$

$$7200000 > \text{square root} = 2683.28 \text{ mm}$$



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