

# RESIDENTIAL STEEL GUIDE

This guide is intended as a reference for builders, carpenters and other trades utilising steel in residential construction. The lists contained in the guide are not comprehensive and more detailed information can be obtained by contacting Steel Builders on 02 9623 7363.

## UNIVERSAL BEAMS

Desc.	Kg/m	Depth (mm)	Width (mm)	Flange (mm)	Web (mm)
150 UB	14	150	75	7	5
	18	155	75	9.5	6
180 UB	16.1	173	90	7	4.5
	18.1	175	90	8	5
	22.2	179	90	10	6
200 UB	18.2	198	99	7	4.5
	22.2	202	133	7	5
	25.4	203	133	7.8	5.8
	29.8	207	134	9.6	6.3
250 UB	25.7	248	124	8	5
	31.4	252	146	8.6	6.1
	37.3	256	146	10.9	6.4
310 UB	32	298	149	8	5.5
	40.4	304	165	10.2	6.1
	46.2	307	166	11.8	6.7
360 UB	44.7	352	171	9.7	6.9
	50.7	356	171	11.5	7.3
	56.7	359	172	13	8
410 UB	53.7	403	178	10.9	7.6
	59.7	406	178	12.8	7.8
460 UB	67.1	454	190	12.7	8.5
	74.6	457	190	14.5	9.1
	82.1	460	191	16	9.9
530 UB	82	528	209	13.2	9.6
	92.4	533	209	15.6	10.2

## UNIVERSAL COLUMNS

Desc.	Kg/m	Depth (mm)	Width (mm)	Flange (mm)	Web (mm)
100 UC	14.8	97	99	7	5
150 UC	23.4	152	152	6.8	6.1
	30	158	153	9.4	6.6
	37.2	162	154	11.5	8.1
200 UC	46.2	203	203	11	7.3
	52.2	206	204	12.5	8
	59.5	210	205	14.2	9.3
250 UC	72.9	254	254	14.2	8.6
	89.5	260	256	17.3	10.5
310 UC	96.8	308	305	15.4	9.9
	118	315	307	18.7	11.9
	137	321	309	21.7	13.8
	158	327	311	25	15.7

## DEFORMED BAR

Description	Size	Kg
Y12	6m	0.9102
Y16	6m	1.6185
Y20	6m	2.5277

## PARALLEL FLANGE CHANNEL

Desc.	Kg/m	Depth (mm)	Width (mm)	Flange (mm)	Web (mm)
75 x 40	5.92	75	40	6.1	3.8
100 x 50	8.33	100	50	6.7	4.2
125 x 65	11.9	125	65	7.5	4.7
150 x 75	17.7	150	75	9.5	6
180 x 75	20.9	180	75	11	6
200 x 75	22.9	200	75	12	6
230 x 75	25.1	230	75	12	6.5
250 x 90	35.5	250	90	15	8
300 x 90	40.1	300	90	16	8
380 x 100	55.2	380	100	17.5	10

## CONCRETE MESH

Description	Size	Kg/Sheet
RF81	6m x 2.4m	116
RF102	6m x 2.4m	80
RF92	6m x 2.4m	65
RF82	6m x 2.4m	52
RF72	6m x 2.4m	40
RF62	6m x 2.4m	33
RF52	6m x 2.4m	21
RF718	6m x 2.4m	68
RF818	6m x 2.4m	79
RF918	6m x 2.4m	93

## EQUAL ANGLE

Size	Thickness (mm)	Kg/m
75 x 75	5	5.27
	6	6.81
	8	8.73
	10	10.5
90 x 90	6	8.22
	8	10.6
	10	12.7
100 x 100	6	9.16
	8	11.8
	10	14.2
	12	17.7
125 x 125	8	14.9
	10	18
	12	22.5
	16	29.1
150 x 150	10	21.9
	12	27.3
	16	35.4
	19	42.1
200 x 200	13	40
	16	48.7
	20	60.1
	26	76.8

**FLAT BAR**

Width (mm)	Thickness (mm)	Kg/m
150	5	6.038
	6	7.247
	8	9.656
	10	12.1
	12	14.48
	16	19.31
	20	24.19
	25	30.17
	50	60.35
180	6	8.692
	10	14.48
	12	17.43
	20	29.01
	25	36.21
200	6	9.656
	8	12.87
	10	16.09
200	12	19.31
	16	25.75
	20	32.18
	25	40.23

Width (mm)	Thickness (mm)	Kg/m
250	6	12.1
	8	19.09
	10	20.12
	12	24.19
	16	32.19
	20	40.28
	25	50.33
300	6	14.48
	8	19.31
	10	24.19
	12	29.01
	16	38.62
	20	48.28
	25	60.35

**SHS**

Size (mm x mm)	Thickness (mm)	Kg/m
65 x 65	1.6	3.13
	2	3.88
	2.5	4.78
	3	5.66
	4	7.23
	5	8.75
	6	10.1
75 x 75	2	4.5
	2.5	5.56
	3	6.6
	3.5	7.53
	4	8.49
	5	10.3
	6	12
89 x 89	2	5.38
	3.5	9.07
	5	12.5
	6	14.7
100 x 100	2.5	7.53
	3	8.96
	4	11.6
	5	14.2
	6	16.7
	8	21.4

**RHS**

Size (mm x mm)	Thickness (mm)	Weight (kg/m)
100 x 50	2	4.5
	2.5	5.56
	3	6.6
	3.5	7.53
	4	8.49
	5	10.3
	6	12
125 x 75	2.5	7.53
	3	8.96
	4	11.6
	5	14.2
	6	16.7
150 x 50	3	8.96
	4	11.6
	5	14.2
150 x 100	4	14.8
	5	18.2
	6	21.4
	8	27.7
	9	30.6
	10	33.4
200 x 100	4	17.9
	5	22.1
	6	26.2
	8	33.9

**UNEQUAL ANGLE**

Size	Thickness (mm)	Kg/m
65 x 50	5	4.02
	6	5.16
	8	6.59
75 x 50	5	4.36
	6	5.62
	8	7.19
100 x 75	6	7.98
	8	10.3
	10	12.4
125 x 75	6	9.16
	8	11.8
	10	14.2
	12	17.7
150 x 90	8	14.3
	10	17.3
	12	21.6
	16	27.9
150 x 100	10	18
	12	22.5