

## 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 BEAMS (Cont.)					
Desc.	Kg/m	Depth (mm)	Width (mm)	Flange (mm)	Web (mm)
610 UB	101.0	602	228	14.8	10.6
	113.0	607	228	17.3	11.2
	125.0	612	229	20	11.9

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

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

PARALLEL FLANGE CHANNEL + PLATE	
Desc.	Kg/m
125PFC + 200x10PL	27.99
150PFC + 200x10PL	33.79
180PFC + 200x10PL	36.99
200PFC + 200x10PL	38.99
230PFC + 200x10PL	41.19
250PFC + 200x10PL	51.59
300PFC + 200x10PL	56.19
380PFC + 200x10PL	71.29
125PFC + 250x10PL	32.02
150PFC + 250x10PL	37.82
180PFC + 250x10PL	41.02
200PFC + 250x10PL	43.02
230PFC + 250x10PL	45.22
250PFC + 250x10PL	55.62
300PFC + 250x10PL	60.22
380PFC + 250x10PL	75.32
125PFC + 300x10PL	36.04
150PFC + 300x10PL	41.84
180PFC + 300x10PL	45.04
200PFC + 300x10PL	47.04
230PFC + 300x10PL	49.24
250PFC + 300x10PL	59.64
300PFC + 300x10PL	64.24
380PFC + 300x10PL	79.34

SMART 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

SMART FLAT BAR™ (Cont.)		
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

DEFORMED BAR		
Desc.	Size	Kg
Y12	6m	0.9102
Y16	6m	1.6185
Y20	6m	2.5277

SHS		
Size (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)	Thickness (mm)	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

CONCRETE MESH		
Desc.	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

UNEQUAL ANGLE		
Size (mm)	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

SMART LINTELS™ & SMART COMPI-BARS™		
Size (mm)	Kg/m	M2/M
85x7 FL	4.79	0.18
150x100x10UA+75x10PL	30.07	0.67
200x6x200x6 TBAR	19.31	0.81
200x8x200x6 TBAR	22.53	0.81
200x10x200x6 TBAR	25.75	0.81
200x10x200x10 TBAR	32.19	0.82
250x10x200x10 TBAR	36.21	0.92
250x12x200x10 TBAR	40.23	0.92
COMPI-BAR 3000	72.42	1.86
COMPI-BAR 5400	130.35	3.35
COMPI-BAR 6000	144.83	3.72

SMART ADJUSTABLE STUB COLUMNS™	
Size	Max Stub
75 x 4	1400
89 x 3.5	1300
89 x 5	900
89 x 6	800
100 x 5	800

**NOTE:** The above sizes are the maximum lengths we can use for stub columns before they are required to be a full size post.

CHEMSET STUDS & GLUE				
Stud Size	Hole Diameter (mm)	Embedment (mm)	Glue Required (ml)	Studs / 600ml
M10	16	150mm	19.9ml	30
M12	18	160mm	24.9ml	24
M16	22	190mm	38.0ml	15
M20	26	260mm	62.6ml	9
M24	30	300mm	85.4ml	7

**NEED MORE INFORMATION?**  
Contact our teams below for assistance

**QUOTE REQUESTS & REVISIONS**  
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