

The image features a dark blue background with a diagonal split. The top-left portion is a solid dark blue, containing the 'VULCAN Steel' logo. The bottom-right portion shows a stack of steel beams, with the top layers in sharp focus and the rest blurred. The beams are a golden-brown color, suggesting they are hot or have been treated. The overall composition is clean and industrial.

VULCAN
Steel

Product Guide

New Zealand

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CARBON STEEL DISTRIBUTION

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Carbon Steel Distribution Summary

HOT ROLLED STRUCTURAL SECTIONS

- Beams
- Columns
- PFC
- TFB/RST

HOLLOW SECTIONS

- RHS/SHS
- Pipes – Black / Galvanised
- Line Pipe
- ERW tube

MERCHANT BAR

- Flats
- Angles
- Rounds
- Squares
- Galvanised profiles

PLATE

- Mild Steel
- Corten
- Floor plate
- Medium tensile
- High tensile

STEEL & COIL

- Hot rolled
- Cold rolled
- Galvanised
- Electro – galvanised
- Zincolume
- Aluminised

CUTTING SERVICES

- Straight cut
- Mitre / Angle cut
- Bundle cut
- Gas cut

Hot Rolled Structural Sections

STRUCTURALS (kg/m)

BEAMS	kg/m	COLUMNS	kg/m
UB 150	14.0	UC 100	14.8
	18.0	UC 150	23.4
UB 180	16.1		30.0
	18.1		37.2
	22.2	UC 200	46.2
UB 200	18.2		52.2
	22.3		59.5
	25.4	UC 250	72.9
	29.8		89.5
UB 250	25.7	UC 310	96.8
	31.4		118.0
	37.3		137.0
UB 310	32.0		158.0
	40.4		
	46.2		
UB 360	44.7		
	50.7		
	56.7		
		PFC	kg/m
UB 410	53.7	75 x 40	5.92
	59.7	100 x 50	8.33
UB 460	67.1	125 x 65	11.9
	74.6	150 x 75	17.7
	82.1	180 x 75	20.9
UB 530	82.0	200 x 75	22.9
	92.4	230 x 75	25.1
UB 610	101.0	250 x 90	35.5
	113.0	300 x 90	40.1
	125.0	380 x 100	55.2

ANGLES (kg/m)

EQUAL	3	5	6	8	10	12	16
125 x 125				14.9	18.0	22.5	
150 x 90				14.3	17.3	21.6	
150 x 100					18.0		
150 x 150					21.9	27.3	35.4
200 x 200							48.7

Primary Source:
Liberty / Infrabuild Australia

Stocked Grades:
- AS/NZS 3679.1 300 PLUS SO (Beams / Columns)
- AS/NZS 3679.1 300 PLUS (Angles & Channels)

Certificates:
- ACRS accreditation
- See infrabuild.com/en-au/resource-centre

Plate Steel

PLATE

CHEQUER PLATE	kg/m ²
3	25.65
5	41.35
6	49.20
8	64.90
10	80.60

PLATE	kg/m ²
3	23.55
4	31.40
5	39.25
6	47.10
8	62.80
10	78.50
12	94.20
16	125.50
20	157.00
25	196.25

PLATE	kg/m ²
32	251.2
40	314.0
50	392.5
60	471.0
80	628.0
100	785.0
120	942.0
130	1020.5
150	1177.5
200	1570.0

Primary Source:

New Zealand Steel
Blue Scope Australia
JFE Japan

Stocked Grades:

- 250, 300, 350 (300 & 350 are by request) 3mm-50mm
- Corten 2.5mm - 6mm
- Floor Plate (Chequer) 3mm - 10mm

Certificates:

- ACRS accreditation

Hollow Sections

HOLLOWS (kg/m)

SHS	1.6	2.0	2.5	3.0	3.5	4.0	5.0	6.0	9.0
20 x 20	0.87								
25 x 25	1.12	1.36	1.64	1.89					
30 x 30	1.38	1.68	2.03	2.36					
35 x 35	1.63	1.99	2.42	2.83					
40 x 40	1.88	2.31	2.82	3.30		4.09			
50 x 50	2.38	2.93	3.60	4.25		5.35	6.39	7.32	
65 x 65			4.78	5.66		7.23	8.75	10.1	
75 x 75				6.60		8.49	10.3	12.0	
89 x 89					9.07		12.5	14.7	
100 x 100				8.96		11.6	14.2	16.7	23.5
125 x 125						14.8	18.2	21.4	30.6
150 x 150							22.1	26.2	37.7
200 x 200							29.9	35.6	51.8
250 x 250								45.0	65.9

RHS	1.6	2.0	2.5	3.0	3.5	4.0	5.0	6.0	9.0
50 x 25		2.15	2.62	3.07					
65 x 35		2.93	3.60	4.25	5.35				
75 x 25			3.60						
75 x 40			4.18	4.95	6.29				
75 x 50		3.72	4.58	5.42		6.92	8.35	9.67	
100 x 50				6.60		8.49	10.3	12.0	
102 x 76					9.06		12.5	14.9	
125 x 75				8.96		11.6	14.2	16.7	
127 x 51					9.09		12.5	14.9	
150 x 50				8.96		11.6	14.2	16.7	
150 x 100						14.8	18.2	21.4	30.6
152 x 76							16.5	19.4	
200 x 100						17.9	22.1	26.2	37.7
250 x 150							29.9	35.6	51.8

Primary Source:
New Zealand Steel
Australian Tube Mills
Alpine, Malaysia (>6mm & >200 x 200 x 6)

Hollow Sections

PIPE

NOMINAL BORE	15NB			20NB				25NB			
IMPERIAL EQUIV.	1/2"			3/4"				1"			
APPROX OD (mm)	21.3mm			26.9mm				33.7mm			
	L	M	H	XL	L	M	H	XL	L	M	H
WALL THICK (mm)	2.0	2.6	3.2	2.0	2.3	2.6	3.2	2.0	2.6	3.2	4.0
BLACK PE (kg/m)	0.95	1.20	1.44	1.23	1.40	1.56	1.87	1.56	1.99	2.41	2.94
GALV PE (kg/m)	1.00	1.25	1.48	1.29	1.46	1.62	1.93	1.64	2.07	2.49	3.02

NOMINAL BORE	32NB				40NB				50NB			
IMPERIAL EQUIV.	1 1/4"				1 1/2"				2"			
APPROX OD (mm)	42.4mm				48.3mm				60.3mm			
	XL	L	M	H	XL	L	M	H	XL	L	M	H
WALL THICK (mm)	2.0	2.6	3.2	4.0	2.3	2.9	3.2	4.0	2.3	2.9	3.6	4.5
BLACK PE (kg/m)	1.99	2.55	3.09	3.80	2.61	31.25	3.57	4.38	3.29	4.11	5.03	6.19
GALV PE (kg/m)	2.10	2.65	3.20	3.90	2.73	3.36	3.68	4.49	3.44	4.25	5.18	6.33

NOMINAL BORE	65NB			80NB			100NB		
IMPERIAL EQUIV.	2 1/2"			3"			4"		
APPROX OD (mm)	76.1mm			88.9mm			114.3mm		
	L	M	H	L	M	H	L	M	H
WALL THICK (mm)	3.2	3.6	4.5	3.2	4.0	5.0	3.6	4.5	5.4
BLACK PE (kg/m)	5.75	6.43	7.93	6.76	8.38	10.3	9.83	12.2	14.5
GALV PE (kg/m)	5.94	6.61	8.12	6.98	8.58	10.5	10.1	12.4	14.8

NOMINAL BORE	125NB			150NB		
IMPERIAL EQUIV.	5"			6"		
APPROX OD (mm)	139.7mm			165.1mm		
	L	M	H	L	M	H
WALL THICK (mm)	3.5	5.0	5.4	3.5	5.0	5.4
BLACK PE (kg/m)	11.8	16.5	17.9	13.9	19.7	21.3
GALV PE (kg/m)	12.1	16.9	18.2	14.4	20.1	21.7

Primary Source:
 New Zealand Steel
 Australian Tube Mills
 Alpine, Malaysia (>6mm & >200 x 200 x 6)

Merchant Bar

FLATS (kg/m)

FLAT	3	5	6	8	10	12	16	20	25	40
10	0.22									
1	0.29	0.47								
16	0.36	0.59								
20	0.47	0.79	0.94		1.57					
25	0.59	0.98	1.18	1.57	1.96	2.36				
30		1.18			2.36					
32	0.75		1.51	2.01	2.51	3.01				
40	0.94	1.57	1.88	2.51	3.14	3.77	5.02			
50	1.18	1.96	2.36	3.14	3.93	4.71	6.28	7.85	9.81	
60			2.83		4.71	5.65				
65	1.53	2.55				6.12	8.16			
75	1.77	2.94	3.53	4.71	5.89	7.06	9.42	11.8	14.7	
80			3.77		6.28	7.53				
90			4.24		7.06	8.48				
100	2.36	3.93	4.71	6.28	7.85	9.42	12.6	15.7	19.6	
110			5.18							
130			6.12		10.2	12.2	16.3	20.4	25.5	
150	3.53	5.89	7.07	9.42	11.8	14.1	18.8	23.6	29.4	
180			8.48		14.1	17.0				
200			9.42	12.6	15.7	18.8	25.1	31.4	39.3	
230					18.06					
250			11.8	15.7	19.6	23.6	31.4	39.3	49.6	
300			14.1	18.8	23.6	28.3	37.7	47.1	58.9	

Primary Source:

Liberty Infrabuild Australia
Selected sizes ex CHF, Taiwan

Stocked Grades:

- 300 plus

Merchant Bar

ANGLES (kg/m)

EQUAL	3	5	6	8	10	12	16
20 x 20	0.86						
25 x 25	1.12	1.65					
30 x 30	1.35	2.01					
40 x 40	1.83	2.73					
50 x 50	2.31	3.48	4.46	5.68			
65 x 65			5.87	7.51	9.02		
75 x 65		5.27	6.81	8.73	10.5		
90 x 90			8.22	10.6	12.7		
100 x 100			9.16	11.8	14.2	17.7	

UNEQUAL	3	5	6	8	10	12	16
65 x 50		4.02	5.16				
75 x 50		4.40	5.66				
100 x 75			7.98	10.3	12.4	17.7	
125 x 75			9.16	11.8	14.2	21.6	

Primary Source:

Liberty Infrabuild Australia
Selected sizes ex CHF, Taiwan

Stocked Grades:

- 300 plus

Merchant Bar

ROUND & SQUARE (kg/m)				IMPERIAL TO METRIC BRIGHT ROUND		
ROUND	kg/m	DEFORMED ROUND	kg/m	Inches	mm	kg/m
6	0.222	10	0.62	3/16	4.76	0.140
8	0.395	12	0.89	1/4	6.35	0.248
10	0.62	16	1.58	5/16	7.94	0.388
12	0.89	20	2.47	3/8	9.53	0.559
16	1.58			1/2	12.70	0.994
20	2.46			9/16	14.29	1.26
24	3.55	SQUARE	kg/m	5/8	15.88	1.55
25	3.85	10	0.785	3/4	19.05	2.24
27	4.49	12	1.13	7/8	22.23	3.05
30	5.55	16	2.01	1	25.40	3.98
32	6.31	20	3.14	1 1/8	28.58	5.03
36	7.99	25	4.91	1 1/4	31.75	6.22
39	9.38	32	8.04	1 1/2	38.10	8.95
45	12.5	40	12.5	1 3/4	44.45	12.18
50	15.4	50	19.6	2	50.80	15.91
				2 1/4	57.15	20.14
				2 1/2	63.50	24.86

Primary Source:
Liberty Infrabuild Australia
Selected sizes ex CHF, Taiwan

Stocked Grades:
- 300 plus

Sheet & Coil

SHEET & COIL

GAUGE to METRIC CONVERSION								
GAUGE No.	10	12	14	16	18		20	24
t (mm)	3.0	2.5	2.0	1.6	1.2	1.0	0.8	0.6
BMT (mm)	2.95	2.45	1.95	1.55	1.15	0.95	0.75	0.55

GALVANISED SHEET	
BMT (mm)	Z275 m ² /tonne
0.40	291.5
0.55	217.0
0.75	161.9
0.95	129.1
1.15	107.3
1.55	80.3
1.95	62.5
2.45	50.0
2.95	41.8

ZINCALUME®	
BMT (mm)	AZ150 m ² /tonne
0.35	342.7
0.40	302.1
0.45	270.1
0.48	253.9
0.55	222.8
0.75	165.1
0.95	131.1
1.15	108.7

COLOURSTEEL®		
BMT (mm)	Endura™ 150 g/m ²	Maxx™ 200 g/m ²
0.35	338	330*
0.40	298	292
0.45	267	272
0.48	251	247
0.55	220	217
0.75	164	162*
0.95	130	129*
1.15	108	107*

COLD ROLLED/ ELECTROGALV SHEET (1219 x 2438)	
t (mm)	kg/sheet
0.60	14.0
0.80	18.7
1.00	23.3
1.20	28.0
1.60	37.3
2.00	46.7
2.50	58.3
3.00	70.00

*Available on application

Primary Source:

- Galvanised, Hot Rolled - New Zealand Steel / Blue Scope Australia
- Electro - Galvanised (Imported)