MACSTEEL®

Data Sheet

FLAT BARS

Flat bars are long, rectangular-shaped metal bars, which are flat and rectangular in form. This material is easy to cut, weld, machine and form.

Product Application

Flat bars are used in a wide range of structural applications, such as supports, braces, straps and plates.

Mild steel (commercial grade)

Mass per kg

Dimensions	Thickness											
Width	3mm	4.5mm	5mm	6mm	8mm	10mm	12mm	16mm	20mm	25mm	30mm	40mm
20	0.471		0.785	0.942	1.256	1.570						
25	0.589	0.883	0.981	1.178	1.570	1.963	2.355					
30	0.707	1.060	1.178	1.413	1.884	2.355	2.826					
40	0.942	1.413	1.570	1.884	2.512	3.140	3.768	5.024	6.280	7.850		
45			1.766*	2.120*			4.239*					
47.6			1.869									
50			1.963	2.355	3.140	3.925	4.710	6.280	7.850	9.813		
60				2.826	3.768	4.710	5.652	7.536	9.420*	11.775*		
65				3.062	4.082	5.103	6.123	8.164*	10.205*	12.756*		
70				3.297	4.396	5.495	6.594	8.792	10.990*	13.738*		
80				3.768	5.024	6.280	7.536	10.048	12.560	15.700	18.840*	25.120*
90				4.239	5.652	7.065	8.478	11.304*	14.130*	17.663*		

SANS 50025 / EN 10025 Grade S355JR

Mass per kg

Dimensions	Thickness								
Width	6mm	8mm	10mm	12mm	16mm	20mm	25mm	30mm	40mm
100	4.710	6.280	7.850	9.420	12.560	15.700	19.625	23.550	31.400*
110	5.181	6.908	8.635	10.362					
130		8.164	10.205	12.246	16.328	20.410	25.513	31.615	
150		9.420	11.775	14.130	18.840	23.550	29.438	35.325*	47.100*
180			14.130	16.956	22.608	28.260	35.325	42.390*	56.520*
200			15.700	18.840	25.120	31.400	39.250	47.100*	62.800*
250					31.400	38.250	49.060	58.880*	78.500*

* Please confirm availability with your local Macsteel Trading branch as some items may not be readily available.

Please contact our Structural Steel Division for sizes not listed above.