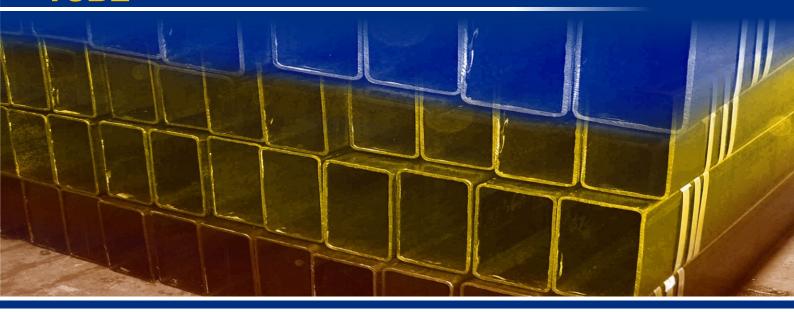


STEEL PIPES & FITTINGS (PTY) LTD

Your One Stop Steel Tubing and Hardware Shop

Mechanical and Structural Tube



Recta	Rectangles									
Size dxh	Wall Th	ickness (n	nm)							
(mm)	1,6	2,0	2,5	3,0	3,5	4.0	4,5	5,0	6,0	
25x13	0.939									
32x19	1.19	1.47	1.84							
38x19	1.44	1.78	2.09	2.47	2.83	3.19				
38x25	1.52	1.88	2.33	2.76						
50x25*	1.85	2.29	2.83	3.36	3.88	4.38				
50x38*	2.19	2.72	3.37	4.01	4.57	5.17				
63x25*	2.19	2.72	3.37	4.01	4.57	5.17				
76x25*	2.44	3.03	3.76	4.48	5.18	5.87				
60x40	2.44	3.03	3.76	4.48	5.18	5.87	6.55			
76x38	2.82	3.50	4.35	5.18	6.00	6.81	7.60			
76x50	3.09	3.85	4.78	5.70	6.60	7.50	8.38			
80x40	2.94	3.66	4.55	5.42	6.28	7.12	7.96			
100x50	3.69	4.59	5.70	6.81	7.90	8.98	10.04	11.10		
120x60		5.54	6.89	8.24	9.57	10.88	12.19	13.48	16.03	
120x80	•	7.17	7.68	9.18	10.66	12.14	13.60	15.05	17.91	
160x80				11.06	12.85	14.64	16.41	18.18	21.67	

Squa	res												
Size dxh	Wall Thickness (mm)												
(mm)	1.6	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0				
13x13	0.560												
16x16	0.680												
19x19	0.939	1.150											
25x25	1.19	1.47	1.80	2.13									
32x32	1.52	1.88	2.31	2.74									
38x38*	1.85	2.29	2.83	3.36	3.86	4.37							
50x50	2.44	3.03	3.76	4.48	5.18	5.87	6.55						
60x60	2.94	3.66	4.55	5.42	6.28	7.12	7.96						
63x63	3.09	3.85	4.78	5.70	6.60	7.50	8.38						
75x75	3.69	4.59	5.70	6.81	7.90	8.98	10.04	11.10					
80x80	3.95	4.91	6.11	7.30	8.47	9.63	10.78	11.91					
90x90	4.45	5.54	6.89	8.24	9.57	10.88	12.19	13.48	16.03				
100x100		6.17	7.68	9.18	10.66	12.14	13.60	15.05	17.91				
120x120				11.06	12.85	14.64	16.41	18.18	21.67				
152x152					16.42		21.00		27.78				

Colour code	relating to	grade of steel	ı

Rounds													
Outside	Wall Thickness (mm)												
Diameter (mm)	1.6	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0				
15.8	0.564												
19,1	0.689	0.841											
21.4	0.783	0.959	1.17	1.36									
25.4	0.939	1.15	1.41										
26.9	1.00	1.233	1.51	1.78									
32.0	1.19	1.47	1.80	2.13									
34.1*	1.28	1.59	1.95	2.30	2.64	2.97							
38.1*	1.44	1.78	2.20	2.60	2.99								
42.8*	1.63	2.02	2.49	2.95	3.39	3.83							
48.5*	1.85	2.29	2.83	3.36	3.88	4.38	4.88						
50.8*	1.91	2.37	2.93	3.48	4.08	4.62							
57.1*	2.19	2.72	3.37	4.01	4.63	5.24							
60,3	2.32	2.88	3.57	4.24	4.91	5.56	6.20						
63.5	2.44	3.03	3.76	4.48	5.18	5.87	6.55						
76.2	2.94	3.66	4.55	5.42	6.28	7.12	7.96	8.78	10.39				
88.9	3.45	4.29	5.33	6.36	7.37	8.38	9.37	10.35	12.27				
101.6	3.95	4.91	6.11	7.30	8.47	9.63	10.78	11.91	14.15				
114,3		5.54	6.89	8.24	9.57	10.88	12.19	13.48	16.03				
127.0		6.17	7.68	9.18	10.66	12.14	13.60	15.05	17.91				
139.7				10.12	11.76	13.39	15.01	16.61	19.79				
152,4				11.06	12.85	14.64	16.41	18.18	21.67				
165.1				12.00	13.95	15.89	17.83	19.74	23.55				
177.8				12.93	15.05	17.07	19.15	21.31	25.42				
193.7		·			16.42		21.00		27.18				
219.1					18.60		23.81		31.52				

^{*} Also available in Structatube 300 (conforms to SABS / SANS 1431 300WA) in 3 mm and thicker but is non standard, minimum order quantities apply.

Table 1 - Chemical and Mechanical properties of (SABS / SANS 1431 300WA modified) Structataube 300

Chemical Composition						Mechanical Properties				
	C	Mn	Si	Р	s	Cabon equivalent	Yield Strength MPa	UTS MPa	Elongation	
	0.20	1.2	0.04	0.02	0.015	0.39	300 - 400	420	(min) * 25%	

^{*} Minimum 50mm gauge length

Table 2 - Chemical properties of grade SAE 1008 (Si less than 0.03)

		Chemical	Chemical composition of steel						
C Mn			Р	S	Si	ensures good galvinizibility,			
	0.1 0.5		0.025	0.025	0.03	weldability, and formability.			
٠		de relating to of the tube ance with SA		1.6mm 2.0 mm	3.0mm 3.5 mm	4.5mm 5.0 mm			

4.0mm

6.0mm

SABS 1431 300WA (modified) - Structatube 300 - Refer to Table 1 for details SAE 1008 (Si less than 0.03) Refer to Table 2 for more details