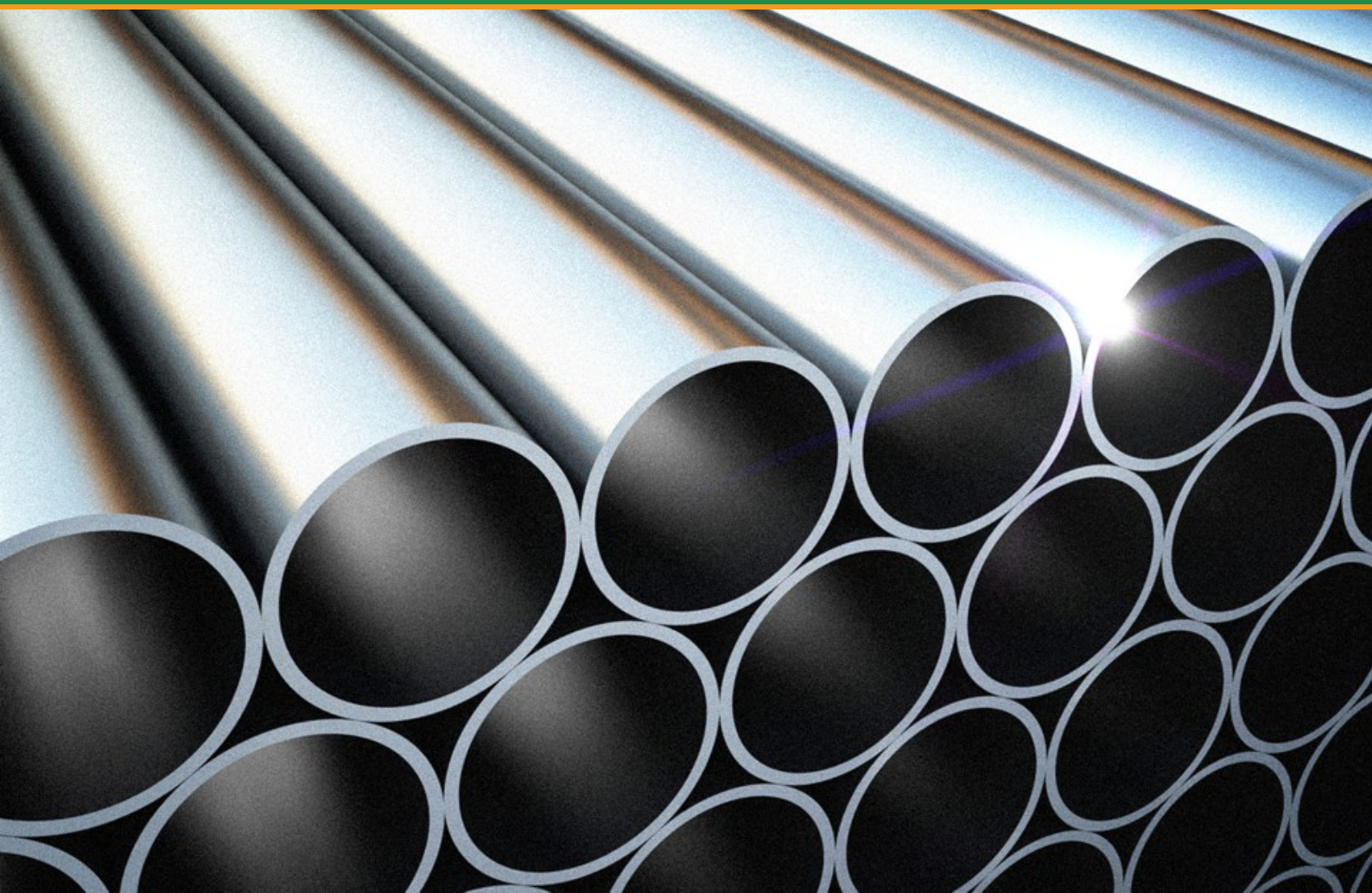




# PROCESS PIPE

## STEEL CATALOGUE

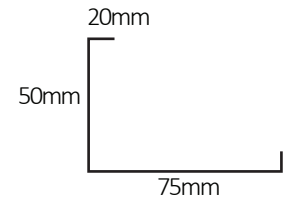


# STEEL

## COLD FORMED SECTIONS MASS PER METER

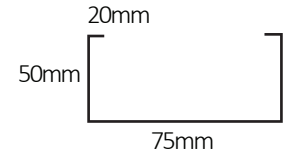
### LIPPED ANGLE

Dimensions	2mm	2,5mm	3mm
75 x 50 x 20	2.400	2.940	3.460
100 x 75 x 20	3.190	3.930	4.640



### LIPPED CHANNEL

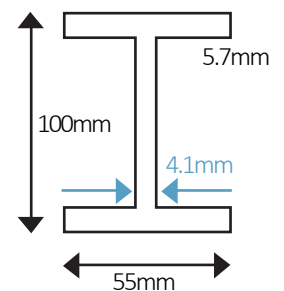
Dimensions	2mm	2,5mm	3mm
75 x 50 x 20	3.120	3.380	4.500
100 x 50 x 20	3.520	4.320	5.090
100 x 64 x 20	3.960	4.870	5.750
100 x 75 x 20	4.300	5.300	6.260
125 x 50 x 20	3.910	4.810	5.680
125 x 64 x 20	4.350	5.360	6.330
125 x 75 x 20	4.690	5.790	6.850
150 x 50 x 20	4.300	5.300	6.260
150 x 64 x 20	4.740	5.850	6.920
150 x 75 x 20	5.090	6.280	7.440
175 x 50 x 20	4.690	5.790	6.850
175 x 64 x 20	5.130	6.340	7.510
175 x 75 x 20	5.480	6.770	8.030
200 x 50 x 20	5.090	6.280	7.440
200 x 75 x 20	5.870	7.260	8.620
250 x 75 x 20	6.660	8.240	9.800



All cold formed sections are normally supplied in 6,0 or 9, 145 metre lengths, but other lengths are available on application.

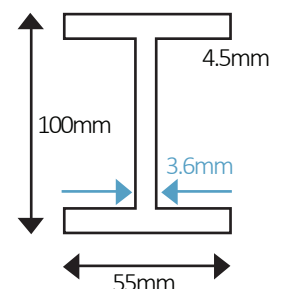
### IPE SECTIONS SANS EN10025 GRADE S355JR

Dimensions	Kg/ M	Web Dimensions	Flange Dimensions	Height	Width
100x55	8.104	4.100	5.700	100.000	55.000
120x64	10.370	4.400	6.300	120.000	64.000
140x73	12.894	4.700	6.900	140.000	73.000
160x82	15.772	5.000	7.400	160.000	82.000
180x91	18.799	5.300	8.000	180.000	91.000
200x100	22.360	5.600	8.500	200.000	100.000



### IPE SECTIONS "AA" SANS EN10025 GRADE S355JR

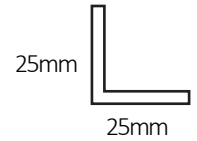
Dimensions	Kg/ M	Web Dimensions	Flange Dimensions	Height	Width
100x55	6.720	3.600	4.500	97.600	55.000
120x64	8.357	3.800	4.800	117.000	64.000
140x73	10.054	3.800	5.200	136.600	73.000
160x82	12.315	4.000	5.600	156.400	82.000
180x91	14.940	4.300	6.200	176.400	91.000
200x100	17.954	4.500	6.700	196.400	100.000



# STEEL

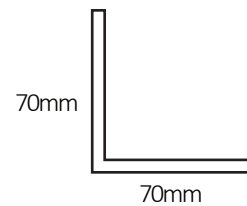
## EQUAL ANGLE MILD STEEL MASS PER METER

Dimensions	2,5mm	3mm	4mm	5mm	6mm	8mm	10mm
25 x 25	0.953	1.114		1.773			
30 x 30	1.171	1.363		2.180			
40 x 40	1.582	1.874		2.974	3.516		
45 x 45		2.131		3.378	3.998		
50 x 50		2.367	3.056	3.770	4.469	5.819	
60 x 60			3.696	4.568	5.423	7.088	8.689



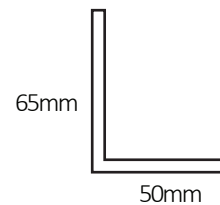
## EQUAL ANGLE SANS EN10025 GRADE S355JR MASS PER METER

Dimensions	6mm	8mm	10mm	12mm
70 x 70	6.380	8.358	10.273	
80 x 80	7.338	9.630	11.859	14.026
90 x 90	8.297	10.904	13.447	15.928
100 x 100		12.179	15.036	17.831
120 x 120		14.712	18.197	21.620
150 x 150			22.981	27.345



## EQUAL ANGLE SANS EN10025 GRADE S355JR MASS PER METER

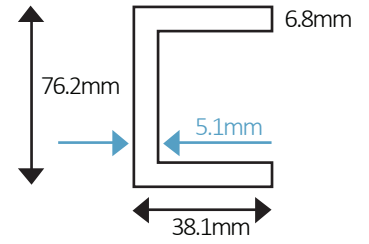
Dimensions	6mm	8mm	10mm	12mm
65 x 50	5.160	6.750		
75 x 50	5.650	7.390		
80 x 60	6.370	8.340		
90 x 65	7.070	9.290	11.400	
100 x 65		9.940		
100 x 75	8.044	10.572	13.370	15.439
125 x 75		12.160	15.017	17.812
150 x 75			16.979	20.167
150 x 90			18.176	21.599



# STEEL

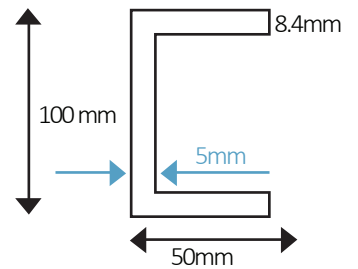
## TAPER FLANGE CHANNEL SANS EN10025 GRADE S355JR

Dimensions	Kg/ M	Web Dimensions	Flange Dimensions	Height	Width
57 x 51	6.840	6.100	6.100	57.200	50.800
76 x 38	6.700	5.100	6.800	76.200	38.100
100 x 50	10.727	6.000	8.500	100.000	50.000
120 x 55	13.546	7.000	9.000	120.000	55.000
127 x 64	14.926	6.400	9.200	127.000	63.500
140 x 60	16.223	7.000	10.000	140.000	60.000
152 x 76	17.911	6.400	9.000	152.400	76.200
160 x 65	19.122	7.500	10.500	160.000	65.000
178 x 54	14.546	5.800	8.400	177.800	54.000
180 x 70	22.265	8.000	11.000	180.000	70.000
200 x 75	25.400	8.500	11.500	200.000	75.000



## PARALLEL FLANGE CHANNEL SANS EN10025 GRADE S355JR

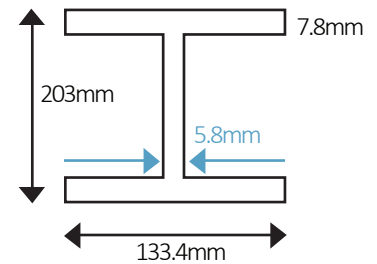
Dimensions	Kg/ M	Web Dimensions	Flange Dimensions	Height	Width
100 x 50	10.100	5.000	8.400	100.000	50.000
180 x 70	21.100	7.000	10.900	180.000	70.000
200 x 75	24.300	7.500	11.400	200.000	75.000
230 x 90	32.200	7.500	14.000	230.000	90.000
260 x 90	34.800	8.000	14.000	260.000	90.000
300 x 100	45.400	9.000	16.500	300.000	100.000



# STEEL

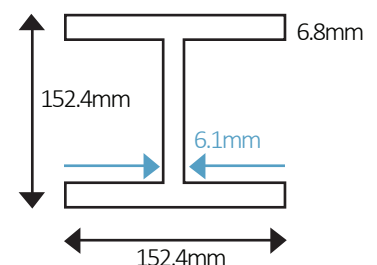
## UNIVERSAL BEAMS SANS EN10025 GRADE S355JR

Dimensions	Kg/ M	Web Dimensions	Flange Dimensions	Height	Width
203 x 133	25.100	5.800	7.800	203.200	133.400
203 x 133	30.000	6.300	9.600	206.800	133.800
254 x 146	31.100	6.100	8.600	251.500	146.100
254 x 146	37.000	6.400	10.900	256.000	146.400
254 x 146	43.000	7.300	12.700	259.600	147.300
305 x 102	24.800	5.800	6.800	304.800	101.600
305 x 102	28.200	6.100	8.900	308.900	101.900
305 x 102	32.800	6.600	10.800	312.700	102.400
305 x 165	40.300	6.100	10.200	303.800	165.100
305 x 165	46.100	6.700	11.800	307.100	165.700
305 x 165	54.000	7.700	13.700	310.900	166.800
356 x 171	45.000	6.900	9.700	352.000	171.000
356 x 171	51.000	7.300	11.500	355.600	171.500
356 x 171	57.000	8.000	13.000	358.600	172.100
356 x 171	67.100	9.100	15.700	364.000	173.200
406 x 140	39.000	6.300	8.600	397.300	141.800
406 x 140	46.000	6.900	11.200	402.300	142.400
406 x 140	54.100	7.600	10.900	402.600	177.600
406 x 140	60.100	7.800	12.800	406.400	177.800
406 x 140	67.100	8.800	14.300	409.400	178.800
406 x 140	74.200	9.700	16.000	412.800	179.700
457 x 191	67.100	8.500	12.700	453.600	189.900
457 x 191	74.300	9.100	14.500	457.200	190.500
457 x 191	82.000	9.900	16.000	460.200	191.300
533 x 210	82.200	9.600	13.200	528.300	208.700
533 x 210	92.100	10.200	15.600	533.100	209.300
533 x 210	101.000	10.900	17.400	536.700	210.100



## UNIVERSAL COLUMN SANS EN10025 GRADE S355JR

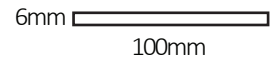
Dimensions	Kg/ M	Web Dimensions	Flange Dimensions	Height	Width
152 x 152	23.000	6.100	6.800	152.400	152.400
152 x 152	30.000	6.600	9.400	157.400	152.900
152 x 152	37.000	8.100	11.500	161.800	154.400
203 x 203	46.100	7.300	11.000	203.200	203.200
203 x 203	52.000	8.000	12.500	206.200	203.900
203 x 203	60.000	9.300	14.200	209.600	205.200
203 x 203	71.000	10.300	17.300	215.900	206.200
203 x 203	86.100	13.000	20.500	222.300	208.800
254 x 254	73.100	8.600	14.200	254.200	254.000
254 x 254	88.900	10.500	17.300	260.400	255.900
254 x 254	107.100	13.000	20.500	266.000	258.000
305 x 305	96.900	9.900	15.400	307.800	304.800
305 x 305	117.900	11.900	18.700	314.500	306.800
305 x 305	136.900	13.800	21.700	320.500	308.700



# STEEL

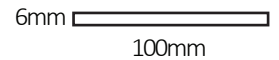
## FLAT BAR MILD STEEL MASS PER METER

Dimensions	5mm	6mm	8mm	10mm	12mm	16mm	20mm	25mm
20	0.785	0.942	1.256	1.570	1.880			
25	0.981	1.178	1.570	1.963	2.355			
30	1.178	1.413	1.884	2.355	2.826			
40	1.570	1.884	2.512	3.140	3.768	5.024	6.280	7.850
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	4.802	5.103	6.123	8.164	10.205	12.756
70		3.297	4.396	5.495	6.594	8.792	10.990	
80		3.768	5.024	6.280	7.536	10.048	12.560	15.700
90		4.239	5.652	7.065	8.478	11.304	14.130	17.663



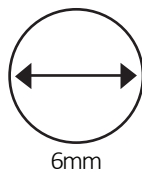
## FLAT BAR SANS EN10025 GRADE S355JR MASS PER METER

Dimensions	5mm	6mm	8mm	10mm	12mm	16mm	20mm	25mm
100		4.710	6.280	7.850	9.420	12.560	15.700	19.625
110				8.635				
130			8.164	10.205	12.246	16.328	20.41	25.513
150			9.420	11.775	14.130	18.840	23.550	29.438
180				14.130	16.956	22.608	28.260	35.325
200				15.700	18.840	25.120	31.400	39.250



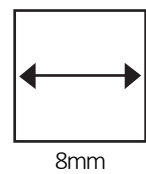
## ROUND BAR MILD STEEL

Dimensions	Kg/m
6	0.222
8	0.395
10	0.617
12	0.888
16	1.578
20	2.466
22	2.984
24	3.551
25	3.853
30	5.549
32	6.313
35	7.553
40	9.865
45	12.485
50	15.413



## SQUARE BAR MILD STEEL

Dimensions	Kg/m
8	0.502
10	0.785
12	1.130
16	2.010
20	3.140
25	4.910
30	7.070
40	12.600
50	19.600



Note: Larger sizes and different grades also available

# STEEL

## PLATES AND SHEETS MASS PER PLATE / SHEET

Thickness	Commercial Quality Plates		Hardwearing Plates - SS10/200/ Wearplate 200		SANS EN10025 Grade S275JR (300WA) Plates			
	Dimensions		Dimensions		Dimensions			
	2500 X 1200	3000 X 1500	2500 X 1200	4000 X 2000	2500 X 1200	3000 X 1500	4000 X 2000	10000 X 2400
4.5	106.000							
5.0	118.000	177.000	118.000		118.000	177.000	314.000	942.000
6.0	141.000	212.000	141.000		141.000	212.000	377.000	1130.000
8.0	188.000	283.000	188.000		188.000	283.000	502.000	1507.000
10.0	236.000	353.000	236.000	628.000	236.000	353.000	628.000	1884.000
12.0	283.000	424.000	283.000		283.000	424.000	754.000	2261.000
16.0	377.000	565.000	377.000		377.000	565.000	1005.000	3014.000
20.0	471.000	707.000	471.000		471.000	707.000	1256.000	3768.000
25.0	589.000	883.000	589.000		589.000	883.000	1570.000	4710.000
30.0					707.000			
32.0					754.000			
40.0					942.000			
50.0					1178.000			

Thickness	Cold Rolled Sheets- Commercial Quality			Hot Rolled Sheets- Commercial Quality					
	Dimensions			Dimensions					
	1850 X 925	2450 X 925	2450 X 1225	1850 X 925	2450 X 925	2450 X 1225	3050 X 1225	3000 X 1500	4000 X 1800
0.5	6.880	9.110	12.060						
0.6	8.250	10.930	14.480						
0.8	11.010	14.570	19.300						
1.0	13.760	18.220	24.130						
1.2	16.510	21.860	28.950						
1.6	22.010	29.150	38.600	122.010	29.150	38.600	48.060		
2.0	27.510	36.440	48.250	27.510	36.440	48.250	60.070	72.351	
2.5				34.390	45.550	60.320	75.090	90.440	
2.8						67.560			
3.0				41.270	54.660	72.380	90.110	108.530	173.640
4.0						69.540		144.700	231.520

Thickness	Galvanised Flat Sheets - Z275			Vastrap Floor Plates
	Dimensions			Dimensions
	1850 X 925	2450 X 925	2450 X 1225	2500 X 1200
0.5	6.880	9.110	12.060	
0.6	8.250	10.930	14.480	
0.8	11.010	14.570	19.300	
1.0	13.760	18.220	24.130	
1.2	16.510	21.860	28.950	
1.6	22.010	29.150	38.600	
1.9	26.140	34.610	45.840	
3.0			732.380	
3.0/4.6				78.000
4.5/6.1				113.000
6.0/7.6				149.000
8.0/9.6				196.000

Note: Different sizes and qualities of plate and sheets also available

# STEEL

## TECHNICAL DATA - PLATES

Quality	Chemical Composition % (Ladle Analysis)													Tensile Strength (Min) (Mpa)	Yield Stress (Min) (Mpa)	Elongation % (Min) on Gauge Length		Charpy V-Notch	
	C Max	Mn Max	P Max	S Max	Si Max	V	Al	Mo Max	Ni Max	Cr Max	Cu Max	B	Nb Max			200mm	5.65 P So	Temp °C	Ave (J)
SANSEN10025 S275JR	0.22	1.50	0.045	0.045	-								0.009	510	275		22*	20	27
S275JO	0.18	1.50	0.045	0.040	-								0.009	510	275		22	0	27
S275JN	0.18	1.50	0.035	0.035	-									430	275		22	-20	27
S355JR	0.24	1.60	0.045	0.045	0.55								0.009	510/680	355		22	20	27
S355JO	0.20	1.60	0.040	0.040	0.55								0.009	510/680	355		22	0	28
SANSEN10025 S355JN	0.20	1.60	0.035	0.035	0.55									510/680	355		22	-20	27
CORROSION RESISTANT	0.12	0.20/	0.07/	0.05	0.25/				0.65	0.30/	0.25/			480/	345	18	22		
WR 50BI CORNTENTA		0.50	0.15		0.75					1.25	0.55			(t<12.7)	(t<12.7)	(t<12.7)	(50mm)		
	0.19	0.20/	0.04	0.05	0.30/	0.02/	0.015/		0.40	0.40/	0.25/			480/	345	18	21		
		1.25			0.65	0.10	0.06			0.70	0.40			(t<100)	(t<100)	(<100)	(50mm)		
	0.19	0.80/	0.04	0.05	0.30/	0.04/	0.015/		0.40	0.40/	0.25/			550/	415	16	21		
		1.35			0.65	0.10	0.06			0.70	0.40			(t<25)	(t<25)	(<25)	(50mm)		
WEAR RESISTANT 10/200	0.40/	0.60/	0.03	0.045	0.35									NOT SPECIFIED					
	0.55	1.00			0.35														