

## Stainless steel plate, sheet and strip

### Theoretical mass: Flat product (ie plate/sheet)

#### Useful formulae:

**Mass of plate:**  $L[m] \times W[m] \times T[mm] \times 7,95$  (L = Length [metres], W= Width [metres], T = Thickness [mm])  
 eg.  $3000 \times 1500 \times 6 = 3,0 \times 1,5 \times 6 \times 7,95 = 215 \text{ kg}$   
 $1365 \times 920 \times 6 = 1,365 \times 0,92 \times 6 \times 7,95 = 59,9 \text{ kg}$

**Mass/m<sup>2</sup>:**  $T[mm] \times 7,95$  (T = Thickness [mm])  
 eg. 10mm plate =  $10 \times 7,95 = 79,5 \text{ kg/m}^2$

THEORETICAL PLATE AND SHEET MASS								
MASS (KG) FOR VARIOUS PLATE AND SHEET SIZES								
Gauge (mm)	Plate / Sheet Size (mm)							
	1000 x 2000	1250 x 2500	1500 x 3000	1500 x 6000	2000 x 3000	2000 x 6000	2500 x 3000	2500 x 6000
0.4	6.36	9.94	14.31	28.62	19.08	38.16	23.85	47.70
0.5	7.95	12.42	17.89	35.78	23.85	47.70	29.81	59.63
0.6	9.54	14.91	21.47	42.93	28.62	57.24	35.78	71.55
0.7	11.13	17.39	25.04	50.09	33.39	66.78	41.74	83.48
0.8	12.72	19.88	28.62	57.24	38.16	76.32	47.70	95.40
0.9	14.31	22.36	32.20	64.40	42.93	85.86	53.66	107.33
1	15.90	24.84	35.78	71.55	47.70	95.40	59.63	119.25
1.2	19.08	29.81	42.93	85.86	57.24	114.48	71.55	143.10
1.5	23.85	37.27	53.66	107.33	71.55	143.10	89.44	178.88
1.6	25.44	39.75	57.24	114.48	76.32	152.64	95.40	190.80
2	31.80	49.69	71.55	143.10	95.40	190.80	119.25	238.50
2.5	39.75	62.11	89.44	178.88	119.25	238.50	149.06	298.13
3	47.70	74.53	107.33	214.65	143.10	286.20	178.88	357.75
3.5	55.65	86.95	125.21	250.43	166.95	333.90	208.69	417.38
4	63.80	99.38	143.10	286.20	190.80	381.60	238.50	477.00
4.5	71.55	111.80	160.99	321.98	214.65	429.30	268.31	536.63
5	79.50	124.22	178.88	357.75	238.50	477.00	298.13	596.25
6	95.40	149.06	214.65	429.30	286.20	572.40	357.75	715.50
8	127.20	198.75	286.20	572.40	381.60	763.20	477.00	954.00
10	159.00	248.44	357.75	715.50	477.00	954.00	596.25	1192.50
12	190.80	298.13	429.30	858.60	572.40	1144.80	715.50	1431.00
15	238.50	372.66	536.63	1073.25	715.50	1431.00	894.38	1788.75
20	318.00	496.88	715.50	1431.00	954.00	1908.00	1192.50	2385.00
22	349.80	54Pce	787.05	1574.10	1049.40	2098.80	1311.75	2623.50
25	397.50	621.09	894.38	1788.75	1192.50	2385.00	1490.63	2981.25
30	477.00	745.31	1073.25	2146.50	1431.00	2862.00	1788.75	3577.50



# NATAL STAINLESS STEEL

## Tolerances- Sheet and plate thickness tolerances to ASTM A480

Specified Thickness (mm)	Thickness Tolerance (mm)	
	Under	Over
0.05	0.08	0.08
0.70	0.10	0.10
0.80	0.13	0.13
0.9	0.13	0.13
1.0	0.13	0.13
1.2	0.13	0.13
1.6	0.15	0.15

Specified Thickness (mm)	Thickness Tolerance (mm)	
	Under	Over
2.0	0.18	0.18
2.5	0.23	0.23
3.0	0.25	0.25
3.5	0.30	0.30
4.5	0.36	0.36
6.0	0.25	1.15
8.0	0.25	1.15

Specified Thickness (mm)	Thickness Tolerance (mm)	
	Under	Over
10.0	0.25	1.40
12.0	0.25	1.40
16.0	0.25	1.40
20.0	0.25	1.55
25.0	0.25	1.55
30.0	0.25	1.80
32.0	0.25	1.80