STEEL IMPEX INDIA

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Stainless and chequered sheet weight reference

Calculated plain-sheet weights for catalogued plate grades with approved density references, plus base-sheet-only chequered plate weights. Pattern mass is never assumed.

SS 304 and SS 316 sheet weight by thickness and exact sheet dimensions

Thickness (mm)	SS 304 (kg/m2)	SS 316 (kg/m2)	SS 304, 1250 x 2500 mm (kg)	SS 304, 4 x 8 ft = 1219.2 x 2438.4 mm (kg)	SS 304, 1500 x 3000 mm (kg)
0.4	3.172	3.192	9.91	9.43	14.27
0.5	3.965	3.990	12.39	11.79	17.84
0.6	4.758	4.788	14.87	14.15	21.41
0.7	5.551	5.586	17.35	16.50	24.98
0.8	6.344	6.384	19.83	18.86	28.55
0.9	7.137	7.182	22.30	21.22	32.12
1.0	7.930	7.980	24.78	23.58	35.69
1.2	9.516	9.576	29.74	28.29	42.82
1.5	11.895	11.970	37.17	35.36	53.53
2.0	15.860	15.960	49.56	47.15	71.37
2.5	19.825	19.950	61.95	58.94	89.21
3.0	23.790	23.940	74.34	70.73	107.05
4.0	31.720	31.920	99.13	94.30	142.74
5.0	39.650	39.900	123.91	117.88	178.42
6.0	47.580	47.880	148.69	141.45	214.11

Formula: kg/m2 = t (mm) x density; sheet kg = kg/m2 x area (m2)
Density: SS 304 7.93, SS 316 7.98 g/cm3 (typical values, shared density table)
Unit: kg/m2 to 3 decimals, kg per sheet to 2 decimals
Last verified: 23 November 2026
Source: SS 304 / 304L density 7.93 g/cm3: Nippon Steel Stainless Steel catalogue S008, austenitic physical-property table pp. 4-5 and mass table pp. 20-21 (SUS304: 7.93)
Source: SS 316 / 316L density 7.98 g/cm3: Nippon Steel Stainless Steel catalogue S008, austenitic physical-property table pp. 4-5 and mass table pp. 20-21 (SUS316: 7.98)
The dimensions are exact arithmetic inputs, not a stock-size promise. Theoretical weight; mill thickness tolerances apply.

Catalogued stainless plate grades: theoretical kg/m2 (0.5 to 2 mm)

Grade / density group	Density (g/cm3)	0.5 mm	0.8 mm	1 mm	1.2 mm	1.5 mm	2 mm
SS 304 / 304L	7.93	3.965	6.344	7.930	9.516	11.895	15.860
SS 304H	7.90	3.950	6.320	7.900	9.480	11.850	15.800
SS 316 / 316L	7.98	3.990	6.384	7.980	9.576	11.970	15.960
SS 316Ti	8.00	4.000	6.400	8.000	9.600	12.000	16.000
SS 317L	8.03	4.015	6.424	8.030	9.636	12.045	16.060
SS 321	7.93	3.965	6.344	7.930	9.516	11.895	15.860
SS 310S	7.90	3.950	6.320	7.900	9.480	11.850	15.800
SS 201 / 202	7.80	3.900	6.240	7.800	9.360	11.700	15.600
SS 409	7.74	3.870	6.192	7.740	9.288	11.610	15.480
SS 410	7.75	3.875	6.200	7.750	9.300	11.625	15.500
SS 420	7.74	3.870	6.192	7.740	9.288	11.610	15.480

Catalogued stainless plate grades: theoretical kg/m2 (0.5 to 2 mm) (continued)

Grade / density group	Density (g/cm3)	0.5 mm	0.8 mm	1 mm	1.2 mm	1.5 mm	2 mm
SS 430	7.70	3.850	6.160	7.700	9.240	11.550	15.400
Duplex 2205	7.80	3.900	6.240	7.800	9.360	11.700	15.600
17-4PH (UNS S17400), condition A	7.78	3.890	6.224	7.780	9.336	11.670	15.560
SS 904L	8.00	4.000	6.400	8.000	9.600	12.000	16.000
254 SMO	8.00	4.000	6.400	8.000	9.600	12.000	16.000

Formula: kg/m2 = measured thickness (mm) x density (g/cm3)
Unit: kg/m2 to 3 decimals
Last verified: 23 November 2026
Source: Shared density table with a source for every material (Steel Impex India, /densities-and-constants)
Grades share a row only where the approved density register groups them. Calculate the ordered width and length in the form above; listed thicknesses are arithmetic examples, not availability.

Catalogued stainless plate grades: theoretical kg/m2 (2.5 to 8 mm)

Grade / density group	Density (g/cm3)	2.5 mm	3 mm	4 mm	5 mm	6 mm	8 mm
SS 304 / 304L	7.93	19.825	23.790	31.720	39.650	47.580	63.440
SS 304H	7.90	19.750	23.700	31.600	39.500	47.400	63.200
SS 316 / 316L	7.98	19.950	23.940	31.920	39.900	47.880	63.840
SS 316Ti	8.00	20.000	24.000	32.000	40.000	48.000	64.000
SS 317L	8.03	20.075	24.090	32.120	40.150	48.180	64.240
SS 321	7.93	19.825	23.790	31.720	39.650	47.580	63.440
SS 310S	7.90	19.750	23.700	31.600	39.500	47.400	63.200
SS 201 / 202	7.80	19.500	23.400	31.200	39.000	46.800	62.400
SS 409	7.74	19.350	23.220	30.960	38.700	46.440	61.920
SS 410	7.75	19.375	23.250	31.000	38.750	46.500	62.000
SS 420	7.74	19.350	23.220	30.960	38.700	46.440	61.920
SS 430	7.70	19.250	23.100	30.800	38.500	46.200	61.600
Duplex 2205	7.80	19.500	23.400	31.200	39.000	46.800	62.400
17-4PH (UNS S17400), condition A	7.78	19.450	23.340	31.120	38.900	46.680	62.240
SS 904L	8.00	20.000	24.000	32.000	40.000	48.000	64.000
254 SMO	8.00	20.000	24.000	32.000	40.000	48.000	64.000

Formula: kg/m2 = measured thickness (mm) x density (g/cm3)
Unit: kg/m2 to 3 decimals
Last verified: 23 November 2026
Source: Shared density table with a source for every material (Steel Impex India, /densities-and-constants)
Grades share a row only where the approved density register groups them. Calculate the ordered width and length in the form above; listed thicknesses are arithmetic examples, not availability.

Chequered / tread plate calculated base-sheet mass (pattern excluded)

Material / density group	Density (g/cm3)	2 mm base	2.5 mm base	3 mm base	4 mm base	5 mm base	6 mm base	8 mm base	10 mm base
Mild / carbon steel	7.85	15.700	19.625	23.550	31.400	39.250	47.100	62.800	78.500
SS 304 / 304L	7.93	15.860	19.825	23.790	31.720	39.650	47.580	63.440	79.300
SS 316 / 316L	7.98	15.960	19.950	23.940	31.920	39.900	47.880	63.840	79.800
SS 201 / 202	7.80	15.600	19.500	23.400	31.200	39.000	46.800	62.400	78.000
SS 321	7.93	15.860	19.825	23.790	31.720	39.650	47.580	63.440	79.300
SS 310S	7.90	15.800	19.750	23.700	31.600	39.500	47.400	63.200	79.000
SS 409	7.74	15.480	19.350	23.220	30.960	38.700	46.440	61.920	77.400
SS 410	7.75	15.500	19.375	23.250	31.000	38.750	46.500	62.000	77.500
SS 420	7.74	15.480	19.350	23.220	30.960	38.700	46.440	61.920	77.400
SS 430	7.70	15.400	19.250	23.100	30.800	38.500	46.200	61.600	77.000
Duplex 2205	7.80	15.600	19.500	23.400	31.200	39.000	46.800	62.400	78.000
17-4PH (UNS S17400), condition A	7.78	15.560	19.450	23.340	31.120	38.900	46.680	62.240	77.800
SS 904L	8.00	16.000	20.000	24.000	32.000	40.000	48.000	64.000	80.000
254 SMO	8.00	16.000	20.000	24.000	32.000	40.000	48.000	64.000	80.000

Formula: base kg/m2 = measured base thickness (mm) x density (g/cm3)
Unit: kg/m2 to 3 decimals
Last verified: 23 November 2026
Source: Shared density table with a source for every material (Steel Impex India, /densities-and-constants)
Raised pattern is excluded. No percentage or universal pattern allowance is applied. Use a supplier or measured actual mass in the calculator for the finished plate.