



MS PLATE WEIGHT CALCULATION FORMULA PDF

WHAT INFORMATION ARE REQUIRED TO CALCULATE MS PLATE WEIGHT

To calculate weight of mild steel plate all we required is:

- Density
- Length
- Width
- Thickness

With above information one can easily calculate weight of MS plates

MILD STEEL PLATE WEIGHT CALCULATION FORMULA

- $\text{Width} * \text{Length} * \text{Thickness} * \text{Density} = \text{Weight}$
- $48'' * 96'' * .1875'' * 0.284 \text{ lb/in}^3 = 245 \text{ lb.}$

WEIGHT CALCULATION FORMULA OF STAINLESS STEEL PLATE

- $\text{Width} * \text{Length} * \text{Thickness} * \text{Density} = \text{Weight}$
- $48'' * 96'' * .1875'' * 0.289 \text{ lb/in}^3 = 250 \text{ lb.}$

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WEIGHT OF MILD STEEL PIPES (APPROX)

- $OD (mm) - WT (mm) \times WT (mm) \times 0.00756 = \text{Weight Per Foot}$

MS SQUARE PIPE WEIGHT CALCULATION

- $WEIGHT (KGS) = WIDTH \times WIDTH \times 0.00000785 \times LENGTH$
- $25 \times 25 \times 0.00000785 \times 1000mm = 4.90 \text{ kgs/metre}$

MILD STEEL SQUARE PIPE WEIGHT CALCULATION

- $WEIGHT (KGS) = WIDTH \times WIDTH \times 0.00000785 \times LENGTH$

STAINLESS STEEL / MS PIPE

- $OD (mm) - WT (mm) \times WT (mm) \times 0.0248 = \text{Weight Per Metre}$
- $OD (mm) - WT (mm) \times WT (mm) \times 0.00756 = \text{Weight Per Foot}$

STAINLESS STEEL / MILD STEEL CIRCLE

- $DIA(mm) \times DIA (mm) \times WT (mm) 0.0000063 = \text{Kg Per Piece.}$

STAINLESS STEEL HEXAGONAL BAR

- $DIA (mm) \times DIA (mm) \times 0.00680 = \text{WT. PER Mtr}$

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- $\text{DIA (mm)} \times \text{DIA (mm)} \times 0.002072 = \text{Wt. Per foot.}$

BRASS / COPPER PIPE

- $\text{OD (mm)} - \text{WT (mm)} \times \text{WT (mm)} \times 0.0260 = \text{WEIGHT PER METRE}$

ALUMINIUM PIPE

- $\text{OD (mm)} - \text{WT (mm)} \times \text{WT (mm)} \times 0.0083 = \text{WEIGHT PER METRE}$

STAINLESS STEEL ROUND

- $\text{DIA (mm)} \times \text{DIA (mm)} \times 0.00623 = \text{WEIGHT PER METRE}$

STANDARD CONVERSION FACTORS

- 1 INCH = 25.4 MILLIMETRE
- 1 FOOT = 0.3048 METRE
- 1 YARD = 0.9144 METRE
- 1 MILE = 1.6093 KILOMETER
- 1 ACRE = 0.4047 HECTARE
- 1 POUND = 0.4536 KILOGRAM
- $1 \text{ DEGREE FARENHEIT} \times \frac{5}{9} - 32 = \text{DEGREE CELSIUS}$
- 1 MILLIMETRE = 0.0394 INCH
- 1 METRE = 3.2808 FOOT

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MILD STEEL PLATE WEIGHT CHART IN KG

Thickness (inches)	Weight (lb/ft ²)	Weight (kg/m ²)
3/16	7.65	37.35
1/4	10.2	49.80
5/16	12.8	62.50
3/8	15.3	74.70
7/16	17.9	87.40
1/2	20.4	99.60
9/16	22.9	111.81
5/8	25.5	124.50
11/16	28.1	137.20
3/4	30.6	149.40
13/16	33.2	162.10
7/8	35.7	174.30
1	40.8	199.20
1 1/8	45.9	224.10
1 1/4	51	249.00
1 3/8	56.1	273.90
1 1/2	61.2	298.80
1 5/8	66.3	323.71
1 3/4	71.4	348.61
1 7/8	76.5	373.51
2	81.6	398.41
2 1/8	86.7	423.31
2 1/4	91.8	448.21
2 1/2	102	498.01
2 3/4	112	546.83
3	122	595.66

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3 1/4	133	649.36
3 1/2	143	698.19
3 3/4	153	747.01
4	163	795.84

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