

Handy Formulas & Conversion Factors for Steel & Pipe

1. $\text{Wt/ft} = \text{Outside diameter (OD)} - \text{wall} \times \text{wall} \times 10.69$
2. $\text{Price per NT} = \text{price per CFT} \div \text{wt/ft} \times 20$
3. $\text{Price per CFT} = \text{price per NT} \times \text{wt/ft} \times .05$
4. $\text{Freight Rate per CFT} = \text{cost of freight} \div \text{weight of truck} \times 100 \times \text{wt/ft of pipe}$

Example: $\$600$ (cost of freight) \div $42,000$ lbs. \times 100×10.80 lbs/ft (4" Sch 40 BPE) = $\$15.43/\text{CFT}$ additional freight. (Use 4 decimal places.)

- If pipe costs $\$250.00/\text{CFT}$ (4" Sch 40 BPE), then cost of pipe delivered will be $\$250.00 + \15.43 , or $\$265.43/\text{CFT}$
- The same formula can be used if there is more than one size of truck.

An easy alternate way to calculate Freight for Delivered prices: Take the total value of the pipe order ($\$12,000$) on the truck and add the cost of Freight ($\$400.00$) = $\$12,400$, then divide that by the value of the pipe ($\$12,000$) = 1.0334 (use 4 decimal places). Next multiply each line item on the truck by 1.0334 to get the delivered price per line item.

5. Net Ton = 2,000 lbs.
 6. Metric Ton = 2204.6 lbs.
 7. Metric Ton \times 9.072 = Net Ton
 8. 1 Kilogram per sq. millimeter = 1,422.32 lbs. per square inch.
-