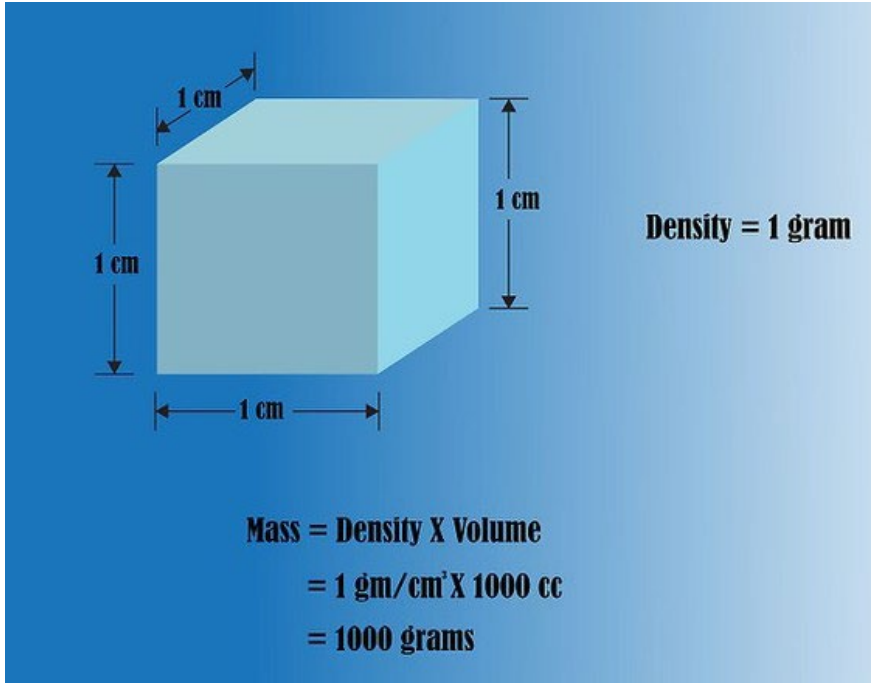
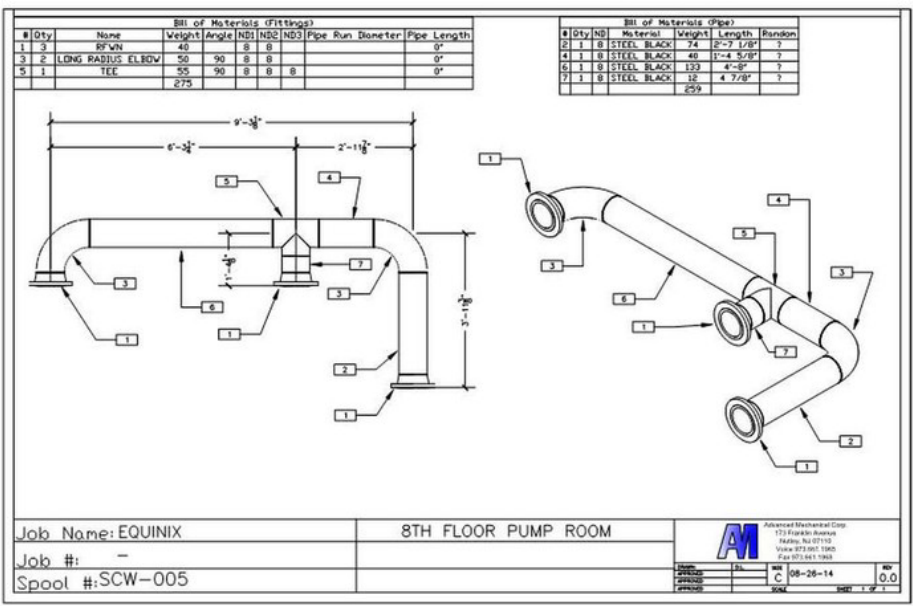


Finding Load Weights



You should always determine (or estimate) the weight of a load before a lift. There are a few different methods:

- Consulting shipping papers, manufacturer’s information, catalogs, blueprints,
- etc. Using the crane’s load indicator (if equipped)
- Calculating the weight



Calculating Weight

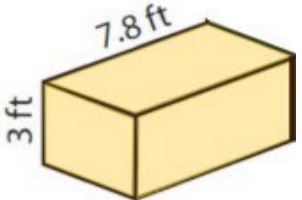
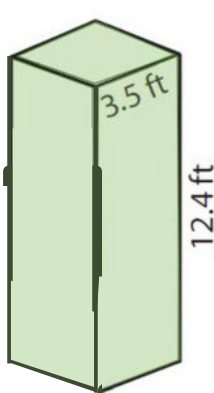
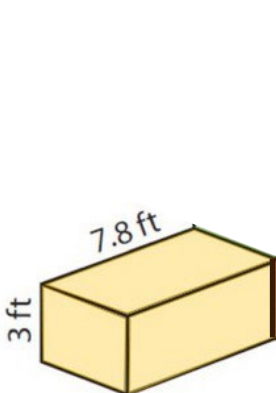
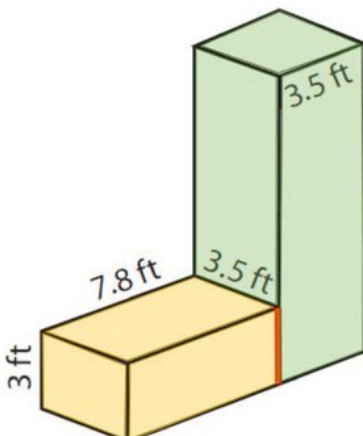
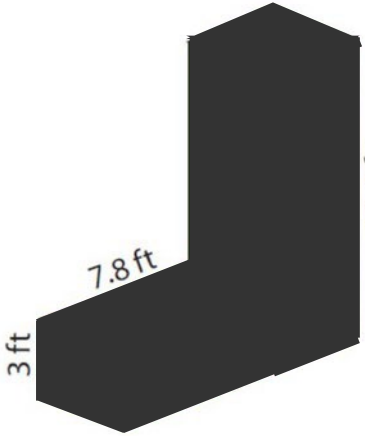
1 Break down the object into simple shapes

2 Calculate the volume of each shape

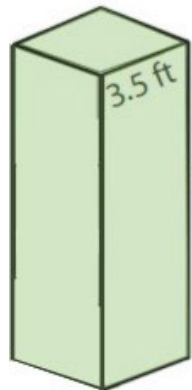
3 Add the volumes together

4 Multiply the volume by the density of the material

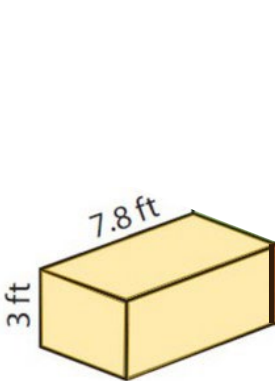
solid aluminum
bar



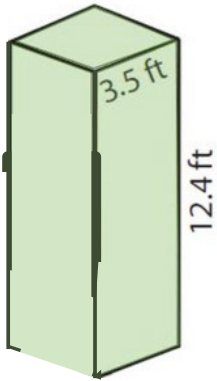
$$l \times w \times h \\ 7.8 \times 3.5 \times 3 \\ = 81.9 \text{ ft}^3$$



$$l \times w \times h \\ 3.5 \times 3.5 \times 12.4 \\ = 151.9 \text{ ft}^3$$



+



$$= 81.9 \text{ ft}^3 + 151.9 \text{ ft}^3 = 233.8 \text{ ft}^3$$

The density of aluminum is 2.7 g/cm³, or 168.5 lbs/ft³ .
233.8 ft³ x 68.5 lbs/ft³ = 16015.3 lbs, or **7264.4 kg**.

“Safety is a core value and business priority”

