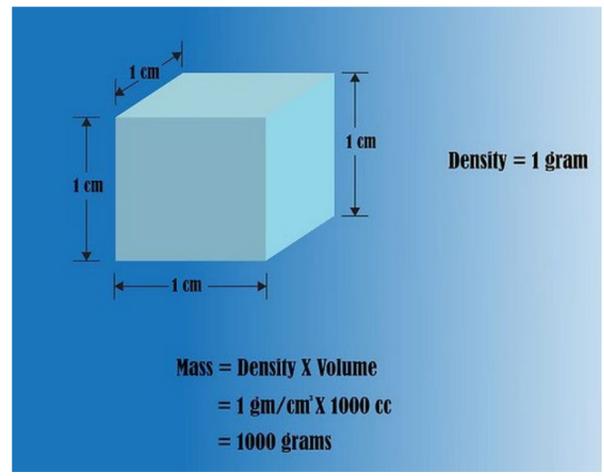
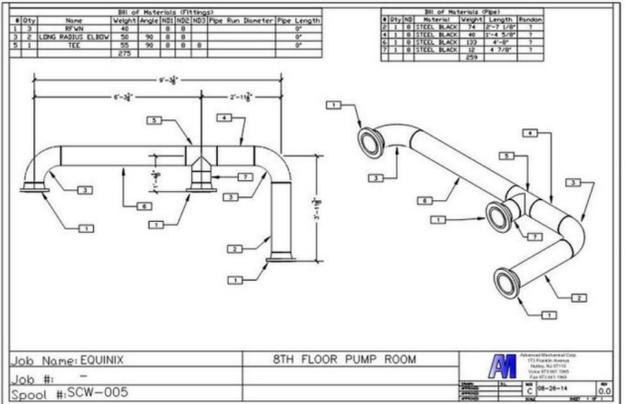


# Finding Load Weights



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

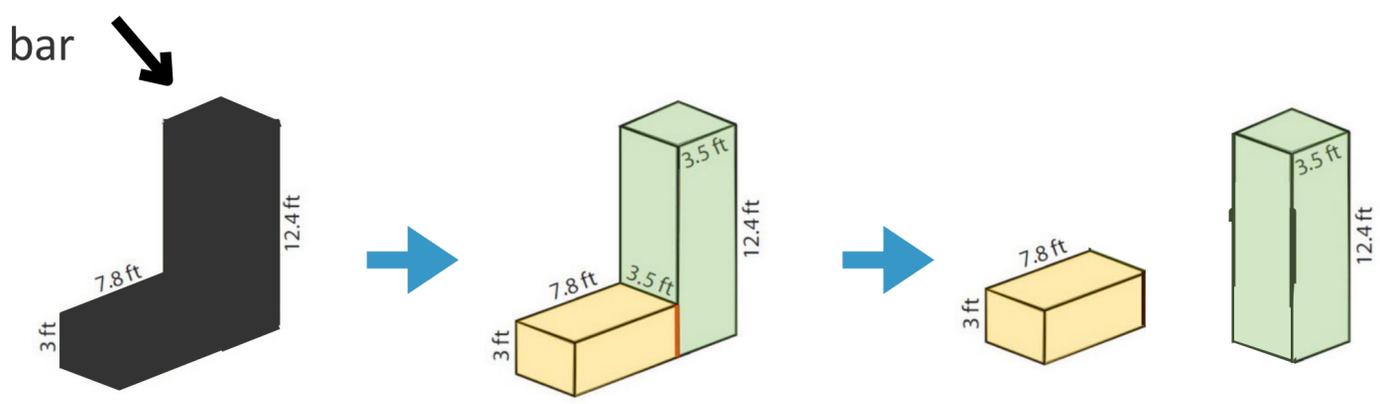
- Consulting shipping papers, manufacturer's information, catalogs, blueprints, etc.
- Using the crane's load indicator (if equipped)
- Calculating the weight



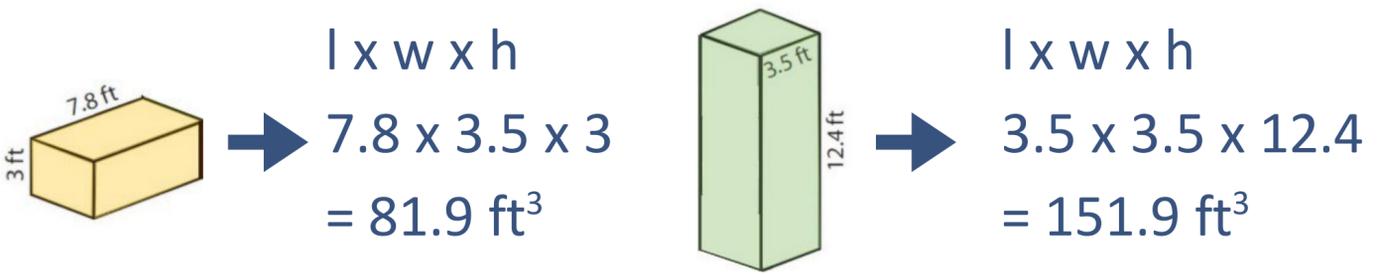
## Calculating Weight

1 Break down the object into simple shapes

solid aluminum bar



2 Calculate the volume of each shape



3 Add the volumes together



4 Multiply the volume by the density of the material

The density of aluminum is 2.7 g/cm<sup>3</sup>, or 168.5 lbs/ft<sup>3</sup>.  
 $233.8 \text{ ft}^3 \times 68.5 \text{ lbs/ft}^3 = 16015.3 \text{ lbs}$ , or **7264.4 kg**.

"Safety is a core value and business priority"

