### Weight Calculations

**NOTES**

Listed here are the relative formulae for calculating the approximate weights of various shapes. Not all grades of the same metal weigh exactly the same owing to their differing chemical composition – so these formulae are only intended to give an approximation. The section/piece weight will also be affected by the manufacturing size tolerance of the item in question.

We have many more formulae for calculation weights of tubes, hexagons and other shapes.

### Round Bar

**STEEL/STAINLESS STEEL**

\[ \text{Dia (mm)} \times \text{dia (mm)} \times 0.00616 = \text{kgs per metre} \]

ie. 1” dia = 25.4mm x 25.4mm x 0.00616 = 3.974kgs per metre

**ALUMINIUM**

\[ \text{Dia (mm)} \times \text{dia (mm)} \times 0.00213 = \text{kgs per metre} \]

ie. 1” dia = 25.4mm x 25.4mm x 0.00213 = 1.374kgs per metre

### Flat and Square Bar

**STEEL/STAINLESS STEEL**

\[ \text{Width (mm)} \times \text{thickness (mm)} \times 0.0079 = \text{kgs per metre} \]

ie. 50mm x 25mm flat bar = 50 x 25 x 0.0079 = 9.88kgs per metre

**ALUMINIUM**

\[ \text{Width (mm)} \times \text{thickness (mm)} \times 0.00271 = \text{kgs per metre} \]

ie. 50mm x 25mm flat bar = 50 x 25 x 0.00271 = 3.39kgs per metre

### Sheet Plate

**STEEL/STAINLESS STEEL**

\[ \text{Length (metres)} \times \text{width (metres)} \times \text{thickness (mm)} \times 8 = \text{kgs per pce} \]

ie. 500mm x 700mm x 25mm thick = 0.5m x 0.7m x 25mm x 8 = 70kgs

**ALUMINIUM**

\[ \text{Length (metres)} \times \text{width (metres)} \times \text{thickness (mm)} \times 2.71 = \text{kgs per pce} \]

ie. 500mm x 700mm x 25mm thick = 0.5m x 0.7m x 25mm x 2.71 = 23.7kgs

Whilst every effort has been made to ensure the accuracy of the information contained within this Product Guide, Wessex Metal Stock Ltd cannot be held responsible for any errors herein.