FORMULAS

Angle iron $= W \times H \times T \times L \times U.W.$

Cone $= 3.14 \times \frac{D \times D}{4} \times \frac{H}{3} \times U.W.$

Cube $= L \times W \times H \times U.W.$

Cylinder $= 3.14 \times \frac{D}{2} \times \frac{D}{2} \times L \times U.W.$

Hollow ball $= 3.14 \times D \times D \times T \times U.W.$

Pipe $= 3.14 \times D \times L \times T \times U.W.$

Plate steel $= W \times L \times T \times U.W.$

Pyramid $= W \times L \times \frac{H}{3} \times U.W.$

Round plate $= 3.14 \times \frac{D}{2} \times \frac{D}{2} \times T \times U.W.$

FORMULAS (continued)

$$\text{Solid balls} = 3.14 \frac{D \times D \times D}{6} \times \text{U.W.}$$

$$\text{Stress} = \frac{W}{N} \times \frac{L}{H}$$

$$\text{Vertical capacity} = \text{SWL (sling vertical)} \times \frac{H}{L} \times N$$

$$\text{Wedge} = W \times \frac{L}{2} \times H \times \text{U.W.}$$

Unit Weights (U.W.)

Unit weight per cubic meter (cubic foot) of steel = 7 850 kg (490 lb.)

Unit weight per square meter (square foot) of 1 cm (1 in.) of steel = 78.5 kg (40.8 lb.)

Unit weight of concrete per cubic meter (cubic foot) = 2 400 kg (150 lb.)