Formulas

Measurement unit abbreviations

in.	inch
ft.	foot
lb.	pound

Constants

π	3.1416
1 ft. \times 1 ft. \times 1 in. of steel plate	40.8 lb.

Formulas

Descriptions	Full	Abbreviated
Area of circle	$\pi imes radius^2$	πr²
Circumference	$\pi imes$ diameter	πD
Force	area $ imes$ pressure	A×P
Number of wire rope clips	diameter of the rope $\times 3$ +1 to the next whole number	
Pythagorean therorem	$(side a)^2 + (side b)^2 = (side c)^2$	$a^2 + b^2 = c^2$
Spacing between clips	6 imes diameter	6D
Tension	$\frac{\text{weight}}{\text{number of slings}} \times \frac{\text{length of sling}}{\text{vertical length}}$	
Working load limit	diameter ² \times 2 000	$D^2 \times 2000$