

## ROTATIONAL MOULDING FORMULAS

### Estimating Part Wall Thickness

(Applicable in comparing various weights and resultant wall thickness)

Based on the support data in the formula for determining part weight we use the following format.

#### METRIC STANDARD

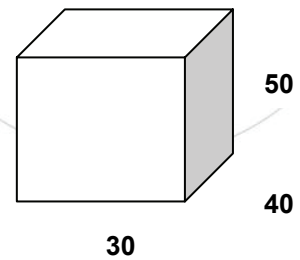
*Formulas* Wall Thickness = Weight / (Surface Area x Density)

*Sample Calculation*

Wt	2,300 gm
Surface area	3,700 cm <sup>2</sup>
Density	0.939 gm/cm <sup>2</sup>
Wall Thickness	2,300 / (3,700 x 0.939)
Wall Thickness	0.66cm

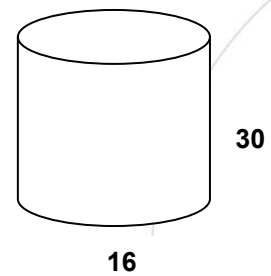
#### TOTAL SURFACE AREA OF A CLOSED RECTANGULAR BOX

L x W x 2 sides	2,400cm <sup>2</sup>
L x H x 2 sides	4,000cm <sup>2</sup>
H x W x 2 sides	3,000cm <sup>2</sup>
<b>Surface Area</b>	<b>9,400cm<sup>2</sup></b>



#### TOTAL SURFACE AREA OF A CLOSED CYLINDER

3.1416 x D x H	1,518cm <sup>2</sup>
3.1416 x R <sup>2</sup> x 2 Ends	402cm <sup>2</sup>
<b>Surface Area</b>	<b>1,910cm<sup>2</sup></b>



Where D = Diameter and R = Radius of cylinder

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