

Calculating Freight Size & Weight



When sending freight with Retko Specialist Transport there are two methods for calculating price, either by volume or weight.

Rates have been provided using [Kilogram/Tonne (weight) and] [Cubic (volume)] measurements.

These rates are based on the following allowances:

<i>Intra Island (within the island)</i>	3.00m³ = 1 tonne or 333kg = 1m³
<i>Inter Island (between the islands)</i>	2.00m³ = 1 tonne or 500kg = 1m³

To work out the correct price to send your freight you must determine whether the **weight or volume of your freight is greater.**

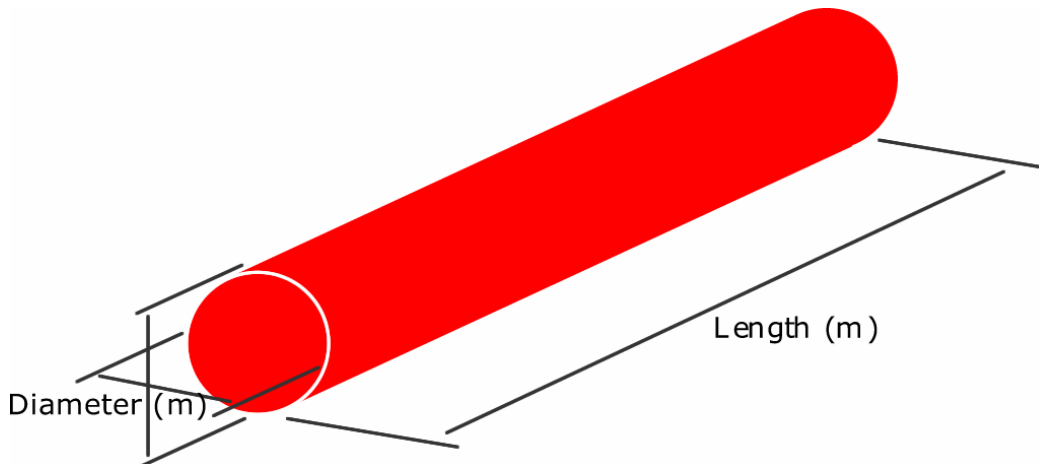
Calculate the weight of the freight by weighing it. Calculate the volume of the freight using the following volumetric formulae, diagrams and examples below. Then compare the two figures. The greater of the volumetric figure and actual freight weight is used when pricing.

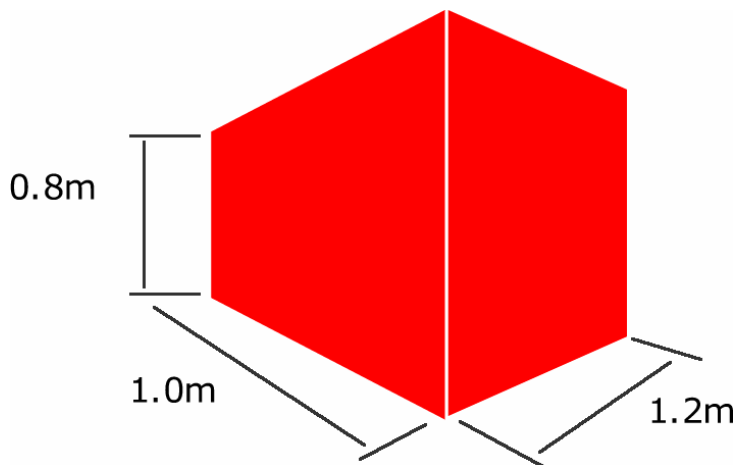
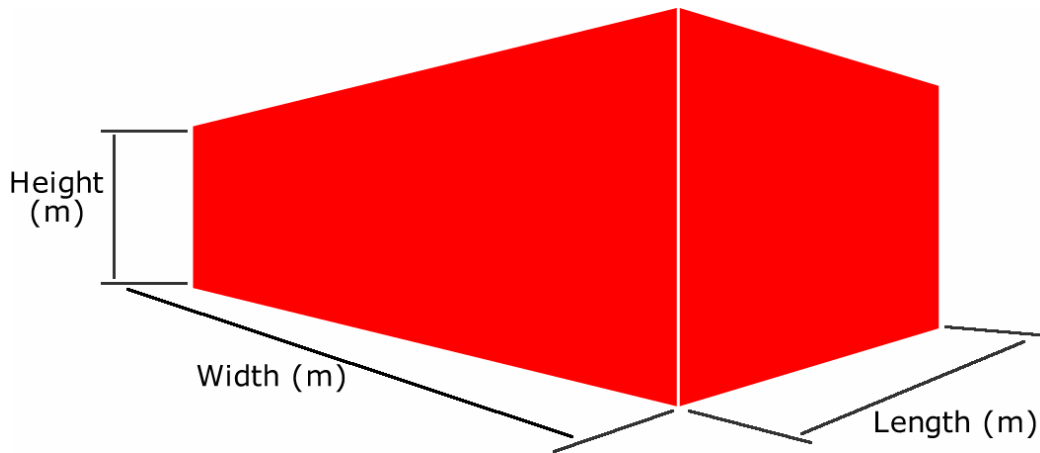
To calculate volume for a box use the following formula:

$$\text{Volume (m}^3\text{)} = \text{Height (m)} \times \text{Width (m)} \times \text{Length (m)}$$

To calculate volume for a cylinder use the following formula:

$$\text{Volume (m}^3\text{)} = \text{Diameter (m)} \times \text{Diameter (m)} \times \text{Length (m)}$$





Actual weight = **400kg**
 Volume = $0.8\text{m} \times 1.0\text{m} \times 1.2\text{m} = 0.96\text{m}^3$
 Intra Island volumetric weight = $0.96\text{m}^3 / 3 \times 1,000 = \mathbf{320\text{kg}}$
 Inter Island volumetric weight = $0.96\text{m}^3 / 2 \times 1,000 = \mathbf{480\text{kg}}$

The greater of the weights is used. In this picture if the freight was moving intra island (within islands)

then the actual weight (400kg) would be used as it is the greater than the volumetric weight of 320kg.

If the weight was moving inter island (between islands) the volumetric weight (480kg) would be used as it is greater than the actual weight of 400kg.