

How to calculate correct freight dimensions

When sending freight with PBT it is important that both the weight and volume are accurately calculated and recorded. This helps us achieve...

1. SAFETY OF OUR PEOPLE

Under declared freight can cause physical injury e.g. back strain.

2. SAFETY ON THE ROADS

Over-weight vehicles can cause handling and stopping problems or worse, accidents.

3. LEGAL COMPLIANCE

PBT must comply with the law or face prosecution and hefty fines.

Measuring weight

To calculate the correct weight of freight, use a calibrated set of scales or accurate standard figures for your units of product (eg. packages, boxes, bags or the product itself). Record this figure in kilograms or tonnes.

Conversion rates

(tonne/cubic)

INTRA ISLAND (within the island)

$3\text{m}^3 = 1 \text{ tonne}$ or $333\text{kg} = 1\text{m}^3$

INTER ISLAND (between islands)

$2\text{m}^3 = 1 \text{ tonne}$ or $500\text{kg} = 1\text{m}^3$

Calculating volume

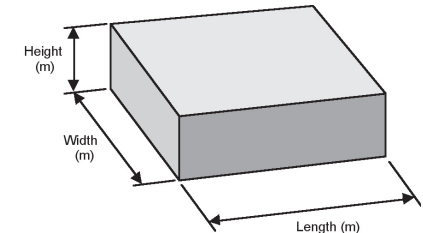
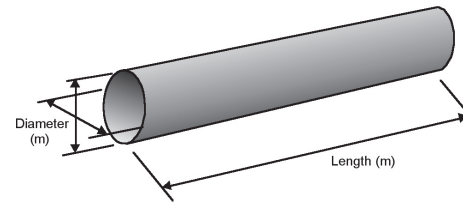
Use these formulas to calculate a volume figure for your freight.

For a box:

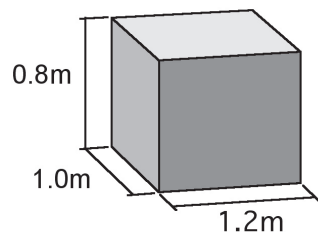
$$\text{Volume (m}^3\text{)} = \text{Height (m)} \times \text{Width (m)} \times \text{Length (m)}$$

For a cylinder:

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



For example:



Actual weight = 400kg

Volume = $0.8\text{m} \times 1\text{m} \times 1.2\text{m} = 0.96\text{m}^3$

INTRA ISLAND volumetric weight = $(0.96\text{m}^3 \div 3) \times 1000 = 320\text{kg}$

INTER ISLAND volumetric weight = $(0.96\text{m}^3 \div 2) \times 1000 = 480\text{kg}$

The GREATER of the weights is used.

In this example, if the freight was moving intra island then the actual weight (400kgs) would be used, as it is greater than the volumetric weight of 320kgs. If the freight was moving inter island, the volumetric weight (480kgs) would be used as it is greater than the actual weight of 400kgs.

For any queries regarding packaging requirements, handling or volumetric requirements, please contact your Account Manager. Your local PBT Operations Manager is also available for more complex queries.

