

How to calculate chargeable weight for air freight

Example 1

- 1 Know your actual volume in cubic meters.

Formula: length x width x height.
Example: 39in x 42in x 57in = 93,366 cu in
Convert imperial to metric
61,024 cubic inches = 1 cbm
Actual volume = 93,366 / 61,024 = 1.53 cbm
- 2 Know your volumetric weight.

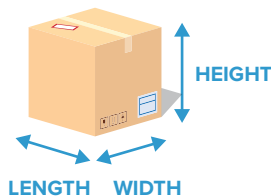
Air cubic conversion factor = 167
Formula: actual volume x 167
Example: 1.53 cbm x 167 = 255.51 kg
- 3 Compare volumetric weight and the actual weight. Whichever is greater will be your chargeable weight.

Convert imperial to metric
1 lbs = 0.4536 kg
Actual weight: 441 lbs x 0.4536 = 200 kg
Chargeable weight = 255.51 kg

Air freight

Actual volume
= length x width x height
= 39in x 42in x 57in
= 93,366 cu in
= 93,366 / 61,024
= 1.53 cbm

Volumetric weight
= volume (cbm) x 167
= 1.53 cbm x 167
= 255.51 kg



Actual weight
= 441 lbs x 0.4536
= 200 kg

Actual weight vs volumetric weight
200 kg vs 255.51 kg

Choose the greater value
Chargeable weight - 255.51 kg

Example 2

- 1 Know your actual volume in cubic meters.

Formula: length x width x height
Example: 47in x 59in x 20in = 55,460 cu in
Convert imperial to metric
61,024 cubic inches = 1 cbm
Actual volume = 55,460 / 61,024 = 0.91 cbm
- 2 Know your volumetric weight.

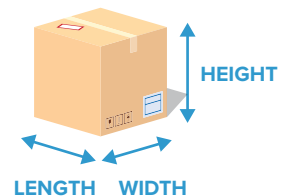
Air cubic conversion factor = 167
Formula: actual volume x 167
Example: 0.91 cbm x 167 = 151.22 kg
- 3 Compare volumetric weight and the actual weight. Whichever is greater will be your chargeable weight.

Convert imperial to metric
1 lbs = 0.4536 kg
Actual weight: 400 lbs x 0.4536 = 181.44 kg
Chargeable weight = 181.44 kg

Air freight

Actual volume
= length x width x height
= 47in x 59in x 20in
= 55,460 cu in
= 55,460 / 61,024
= 0.91 cbm

Volumetric weight
= volume (cbm) x 167
= 0.91cbm x 167
= 151.22kg



Actual weight
= 400 lbs x 0.4536
= 181.44kg

Actual weight vs volumetric weight
181.44kg vs 151.55kg

Choose the greater value
Chargeable weight - 181.44kg

How to calculate chargeable volume for sea freight (LCL)

Example 1

1 Know your actual volume in cubic meters.
Formula: length x width x height.
Example: 79in x 138in x 59in = 643,218 cu in
Convert imperial to metric
61,024 cubic inches = 1 cbm
Actual volume = 643,218 / 61,024 = 10.5cbm

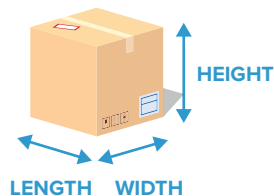
2 Know your weight-based volume.
Convert imperial to metric
1 lbs = 0.4536 kg
Actual weight: 26455 lbs x 0.4536 = 12,000 kg
Sea cubic conversion factor = 1,000
Formula: actual weight / 1,000
Example: 12,000kg / 1,000 = 12.0 cbm

3 Compare volumetric weight and the actual weight. Whichever is greater will be your chargeable weight.

Chargeable volume = 12.0 kg

Sea freight (LCL)

Actual volume
= length x width x height
= 79in x 138in x 59in
= 643,218 cu in
= 643,218 cu in / 61,024
= 10.5 cbm



Weight-based volume
= actual weight (kg) / 1,000
= 26,455 x 0.4536 / 1,000
= 12.0 cbm

Actual weight
= 26,445 lbs x 0.453
= 12,000 kg

Actual volume vs weight-based volume
10.5cbm vs 12.0 cbm

Choose the greater value
Chargeable volume - 12.0 cbm

Example 2

1 Know your actual volume in cubic meters.
Formula: length x width x height
Example: 59in x 118in x 47in = 327,214 cu in
Convert imperial to metric
61,024 cubic inches = 1 cbm
Actual volume = 327,214 / 61,024 = 5.4cbm

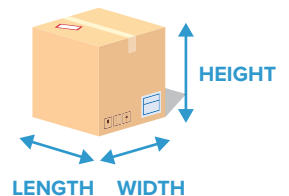
2 Know your weight-based volume.
Convert imperial to metric
1 lbs = 0.4536 kg
Actual weight: 8,818 lbs x 0.4536 = 4,000 kg
Sea cubic conversion factor = 1,000
Formula: actual weight / 1,000
Example: 4,000kg / 1,000 = 4.0 cbm

3 Compare volumetric weight and the actual weight. Whichever is greater will be your chargeable weight.

Chargeable volume = 5.4 kg

Sea freight (LCL)

Actual volume
= length x width x height
= 59in x 118in x 47in
= 327,214 cu in
= 327,214 cu in / 61,024
= 5.4cbm



Weight-based volume
= actual weight (kg) / 1,000
= 8,818 x 0.4536 / 1,000
= 4.0 cbm

Actual weight
= 8,818lbs x 0.4536
= 4,000 kg

Actual volume vs weight-based volume
5.4cbm vs 4.0 cbm

Choose the greater value
Chargeable volume - 5.4 cbm