Ocean Freight Container Specifications

Ocean Container Dimensions

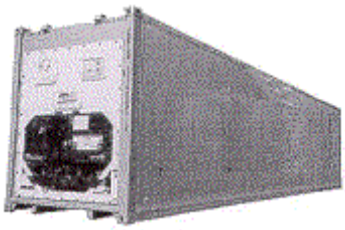
STANDARD 20'

INSIDE LENGTH	19'4"	5.89 m
INSIDE WIDTH	7'8"	2.33 m
INSIDE HEIGHT	7'10"	2.38 m
DOOR WIDTH	7'8"	2.33 m
DOOR HEIGHT	7'6"	2.28 m
CAPACITY	1,172 ft^3	33.18 m^3
TARE WEIGHT	4,916 lb	2,229 kg
MAX. CARGO	47,999 lb	21,727 kg

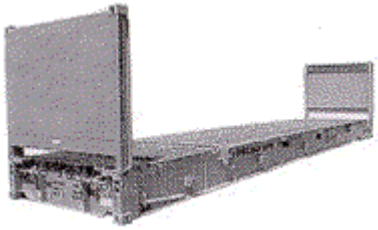
STANDARD 40' HIGH CUBE 40'

INSIDE LENGTH	39'5"	12.01 m	39'5"	12.01 m
INSIDE WIDTH	7'8"	2.33 m	7'8"	2.33 m
INSIDE HEIGHT	7'10"	2.38 m	8'10'	2.69 m
DOOR WIDTH	7'8"	2.33 m	7'8"	2.33 m
DOOR HEIGHT	7'6"	2.28 m	8'5"	2.56 m
CAPACITY	2,390 ft^3	67.67 m^3	2,694 ft^3	76.28 m^3
TARE WEIGHT	8,160 lb	3,701 kg	8,750 lb	3,968 kg
MAX. CARGO	59,040 lb	26,780 kg	58,450 lb	26,512 kg

	OPEN TOP 20' (upgraded also available)		OPEN TOP 40'	
INSIDE LENGTH	19'4"	5.89 m	39'5"	12.01 m
INSIDE WIDTH	7'7"	2.31 m	7'8"	2.33 m
INSIDE HEIGHT	7'8"	2.33 m	7'8"	2.33 m
DOOR WIDTH	7'6"	2.28 m	7'8"	2.33 m
DOOR HEIGHT	7'2"	2.18 m	7'5"	2.26 m
CAPACITY	1,136 ft^3	32.16 m^3	2,350 ft^3	66.54 m^3
TARE WEIGHT	5,280 lb	2,394 kg	8,490 lb	3,850 kg
MAX. CARGO	47,620 lb	21,600 kg	58,710 lb	26,630 kg

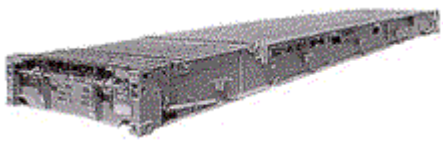


	REEFER 20'		REEFER 40'	
INSIDE LENGTH	17'8"	5.38 m	37'8"	11.48 m
INSIDE WIDTH	7'5"	2.26 m	7'5"	2.26 m
INSIDE HEIGHT	7'5"	2.26 m	7'2"	2.18 m
DOOR WIDTH	7'5"	2.26 m	7'5"	2.26 m
DOOR HEIGHT	7'3"	2.20 m	7'0"	2.13 m
CAPACITY	1,000 ft^3	28.31 m^3	2,040 ft^3	57.76 m^3
TARE WEIGHT	7,040 lb	3,193 kg	10,780 lb	4,889 kg
MAX. CARGO	45,760 lb	20,756 kg	56,276 lb	25,526 kg



	FLAT RACK 20'		FLAT RACK 40'	
INSIDE LENGTH	18'5"	5.61 m	39'7"	12.06 m
INSIDE WIDTH	7'3"	2.20 m	6'10"	2.08 m
INSIDE HEIGHT	7'4"	2.23 m	6'5"	1.95 m
TARE WEIGHT	5,578 lb	2,530 kg	12,081 lb	5,479 kg
MAX. CARGO	47,333 lb	21,469 kg	85,800 lb	38,918 kg

	FLAT RACK COLLAPSIBLE 20'		FLAT RACK COLLAPSIBLE 40'	
INSIDE LENGTH	18'6"	5.63 m	39'7"	12.06 m
INSIDE WIDTH	7'3"	2.20 m	6'10"	2.08 m
INSIDE HEIGHT	7'4"	2.23 m	6'5"	1.95 m
TARE WEIGHT	6,061 lb	2,749 kg	12,787 lb	5,800 kg
MAX. CARGO	61,117 lb	27,722 kg	85,800 lb	38,918 kg



	PLATFORM 20'		PLATFORM 40'	
INSIDE LENGTH	19'11"	6.07 m	40'0"	12.19 m
INSIDE WIDTH	8'0"	2.43 m	8'0"	2.43 m
INSIDE HEIGHT	7'4"	2.23 m	6'5"	1.95 m
TARE WEIGHT	6,061 lb	2,749 kg	12,783 lb	5,798 kg
MAX. CARGO	52,896 lb	23,993 kg	66,397 lb	30,117 kg

Dimension of General Purpose Containers

CONTAINER				Capacity		Recommended Load Volume	
Nominal Dimension	Length	Width	Height	Cubic Feet	Cubic Meter	Cubic Feet	Cubic Meter
External	20'	8'	8' 6"				
	6.096 m	2.438 m	2.591 m				
Internal	19' 4.25"	7' 8.625"	7' 10"	1170 cft		1000 cft	
	5.899 m	2.353 m	2.388 m		33.131 cbm		28 cbm
External	40'	8'	8' 6"				
	12.192 m	2.438 m	2.591 m				
Internal	39' 5.375"	7' 8.625"	7' 10"	2385 cft		2050 cft	

	12.024 m	2.353 m	2.388 m		67.535 cbm		58 cbm
External	40' Hicube	8'	9' 6"				
	12.192 m	2.438 m	2.896 m				
Internal	39' 5.375"	7' 8.625"	8' 10"	2690 cft		2350 cft	
	12.024 m	2.353 m	2.692 m		76.172 cbm		66 cbm

Definitions :

The Recommended Load Volume (RLV) refers to the suggested maximum cube to use in calculating a full container load. The RLV can be about 10-15% less than the container capacity, depending on the export pack dimensions.

Rating, Tare Mass and Payload of Containers

Rating

Rating is the maximum gross mass (or weight), that is, the maximum permissible weight of a container plus its contents. The rating of a 20' dry cargo container is 24,000 kgs. (52,900 lbs.), and a 40', including the high cube container, is 30,480 kgs. (67,200 lbs.).

Tare Mass

Tare Mass---tare weight or tare---is the mass (or weight) of empty container, including all fittings and appliances used in a particular type of container in its normal operating condition.

The tare mass of containers may vary due to the different construction techniques and materials used in the container. A 20' x 8.5' dry cargo container may weigh 1,800 kgs. to 2,400 kgs., a 40' x 8.5' may weigh 2,800 kgs. to 4,000 kgs, and a 40' x 9.5' may weigh 3,900 kgs. to 4,200 kgs. Some dry cargo containers may fall outside the indicated weight range. The reefer weighs more than a dry cargo container of the same size.

Payload

Payload is the maximum permitted mass (or weight) of payload, including the dunnage and cargo securement arrangements that are not associated with the container in its normal operating condition. Therefore, Payload = Rating - Tare Mass.

If the tare mass of a 20' dry cargo container is 2,400 kgs. and a 40' is 3,900 kgs., the payload of 20' is 21,600 kgs. (i.e., 24,000 kgs. minus 2,400 kgs.) and 40' is 26,580 kgs. (i.e., 30,480 kgs. minus 3,900 kgs.). However, the exporter may be prohibited to have that much payload in areas where there are legal limitations to the overall load of a vehicle.

In exporting, it is common to encounter a payload of 17,500 kgs. or less in the 20' container, and 24,000 kgs. or less in the 40' container.

The Marking and Identification of Containers

The rating, tare mass and payload of a container is marked on its wall, usually on the end (rear) door in the case of an end-loading dry cargo container.

Each container has an identification code or container number---a combination of the 4-letter characters that identify the owner (the operator of container) and the 7-numeric characters that identify the container. The container number can be found on the outer and inner side walls.

The container number is entered on the bill of lading to facilitate the identification and tracking of the container and the cargo.