

## General Information

### Internal Dimensions

The internal dimensions and door openings of all Hapag-Lloyd containers exceed the below given ISO dimensions. However, the dimensions mentioned on the following pages are nominal figures. Because of production tolerances a difference in measurement is possible:

Tolerances	Length	Width	Height
Maximum Difference	10 mm 3/8"	10 mm 3/8"	10 mm 3/8"

### Maximum Gross Weights

#### 20' containers:

32500 kg (71650 lbs) valid for most Hapag-Lloyd 20' containers; exceeds ISO minimum standards (ISO 668).

#### 40' and 45' containers:

Up to 34 000 kg (74 959 lbs).

### Weight Limits for road and rail transport

For individually valid limits contact your local Hapag-Lloyd office.

### Floor Loads

A container floor is capable of carrying a fork-lift truck with a maximum axle load of 5 460 kg (12 040 lbs), if the contact area per wheel is at least 142 cm<sup>2</sup> (22 sq.in) (ISO 1496/1).

### Concentrated Loads

Concentrated loads are loads, that are not distributed over the full length of floor, when stowing heavy cargo in containers other than flats or platforms due care has to be taken that concentrated loads will not exceed the strength of the bottom construction of the container.

The maximum spreaded load should not exceed

- for 20' containers 4 ts per running meter in length (3'3<sup>3</sup>/<sub>8</sub>" still higher on request
- for 40' containers 3 ts per running meter in length
- load must not exceed over max. payload

### Gooseneck Tunnel on 40' Containers

All Hapag-Lloyd 40' containers are fitted with a Gooseneck tunnel to enable the transport on Gooseneck chassis.

### Timber Treatment

Exposed timber is treated according to Australian, EU, Chinese and American requirements.

### Container Markings

Containers built in 1997 or thereafter do also show the ISO Size Type Code. For further information please see page 46.

### External and Minimum Internal Dimensions (according ISO)

The following table gives the overall dimensions as standardized in ISO 668 and the minimum internal dimensions and door openings for General Purpose Containers as standardized in ISO 1496-1.

Dimensions	Length			Width	Height	
	20'	40'	45'		8'	9'6"
Dimensions	6 058 mm	12 192 mm	13 716 mm	2 438 mm	2 591 mm	2 896 mm
Minimum Internal Dimensions	5 867 mm 19'3"	11 998 mm 39'4 <sup>3</sup> / <sub>8</sub> "	13 532 mm 44'4 <sup>3</sup> / <sub>4</sub> "	2 330 mm 7'7 <sup>3</sup> / <sub>4</sub> "	2 350 mm 7'8 <sup>1</sup> / <sub>2</sub> "	2 655 mm 8'8 <sup>1</sup> / <sub>2</sub> "
Minimum Door Opening Dimensions	–	–	–	2 286 mm 7'6"	2 261 mm 7'5"	2 566 mm 8'5"



## Container Size Type Codes according to ISO 6346

Hapag-Lloyd owned and longterm leased container types

Size (L x H)	Type	ISO Type Group	ISO Size Type	ISO Type Group di *	ISO Size Type di *
		1	2	1a	2a
20' x 8"	General Purpose	20GP	20G0		
20' x 8'6"	General Purpose	22GP	22G0		
		22GP	22G1		
20' x 8'6"	General Purpose (Fantainer)	22VH	22V2		
		22VH	22V3 *		22V2
20' x 8'6"	Ventilated	22VH	22V0		
20' x 8'6"	Bulk	22BU	22B0		
20' x 8'6"	Open Top	22UT	22U1		
20' x 8'6"	Hardtop	22UP *	22U6 *	22UT	22U1
20' x 1'1'1/4"	Platform	29PL	29P0		
20' x 8'	Flat (fixed ends)	20PF	21P1		
20' x 8'6"	Flat (fixed ends)	22PF	22P1		
20' x 8'6"	Flat (collapsible)	22PC	22P3		
20' x 8'6"	Flat (coll., flush folding)	22PC	22P8 *		22P3
20' x 8'6"	Refrigerated	22RT	22R1		
20' x 8'6"	Refrigerated (no foodstuffs)	22RC *	22R9 *	22RT	22R1
20' x 8'	Insulated	20HR	20H0		
20' x 8'6"	Tank (non-dangerous liquids)	22TN	22T0		
40' x 8'6"	General Purpose	42GP	42G0		
		42GP	42G1		
40' x 9'6"	High Cube GP	45GP	45G0		
		45GP	45G1		
40' x 8'6"	Open Top	42UT	42U1		
40' x 8'6"	Hardtop	42UP *	42U6 *	42UT	42U1
40' x 9'6"	High Cube Hardtop	45UP *	45U6 *	45UT	45U1
40' x 2'	Platform	49PL	49P0		
40' x 8'6"	Flat (fixed ends)	42PF	42P1		
40' x 8'6"	Flat (collapsible)	42PC	42P3		
40' x 8'6"	Flat (coll., flush folding)	42PC	42P8 *		42P3
40' x 9'6"	Flat (collapsible)	45PC	45P3		
40' x 9'6"	Flat (coll., flush folding)	45PC	45P8 *		45P3
40' x 8'6"	Refrigerated	42RT	42R1		
40' x 8'6"	Refrigerated (diesel genset)	42RS	42R3		
40' x 8'6"	Refrigerated (no foodstuffs)	42RC *	42R9 *	42RS	42R3
40' x 9'6"	Refrigerated	45RT	45R1		
40' x 9'6"	Refrigerated (no foodstuffs)	45RC *	45R9 *	45RT	45R1
40' x 8'6"	Insulated	42HR	42H0		
45' x 9'6"	High Cube Cont.	L5GP	L5G1		







\*) Some Types/Groups in columns "1" and "2" are marked as non-ISO.

"\*" means ISO spares codes have been used.








If official ISO codes are required for data interchange (di)  
pls use entries in columns "1a" and "2a".

# Contents

page

<b>Introduction</b>			<b>3</b>
<b>General Information</b>			<b>5</b>
<b>General Purpose Container</b>		<b>20' 40'</b>	<b>8 10</b>
<b>High Cube General Purpose Container</b>		<b>40'</b>	<b>12</b>
<b>High Cube General Purpose Container</b>		<b>45'</b>	<b>14</b>
<b>Hardtop Container</b>		<b>20' 40'</b>	<b>16 18</b>
<b>High Cube Hardtop Container</b>		<b>40'</b>	<b>20</b>
<b>Open Top Container</b>		<b>20' 40'</b>	<b>24 26</b>



			page
<b>Flat</b>		<b>20'</b>	<b>30</b>
<b>High Cube Flat</b>		<b>40'</b>	<b>32</b>
<b>Platform</b>		<b>20'</b> <b>40'</b>	<b>34</b>
<b>Ventilated Container</b>		<b>20'</b>	<b>36</b>
<b>Refrigerated Container</b>		<b>20'</b>	<b>38</b>
<b>High Cube Refrigerated Container</b>		<b>40'</b>	<b>40</b>
<b>Tank Container</b>		<b>20'</b>	<b>44</b>
<b>Electric Plugs on Refrigerated Containers</b>			<b>42</b>
<b>Change of Temperature setpoint on Refrigerated Containers</b>			<b>43</b>
<b>Essential Conversion Factors</b>			<b>45</b>
<b>Container Size Type Codes</b>			<b>46</b>

## General Purpose Container

20'

ISO Size Type Code: 22G0, 22G1



- Majority of containers tested for ONE DOOR-OFF OPERATION limited stacking weight.
- Suitable for any general cargo.
- Containers may be equipped with liner bags suitable for bulk cargo, e.g. malt.
- Fork-lift pockets for loaded containers.
- Floor Height 170 mm - 5mm (Ground level to interior floor surface)
- Various lashing devices on the top and bottom longitudinal rails and the corner posts.
- Lashing devices have a load of 1 000 kg (2 205 lbs) each.

## General Purpose Container

20'

Construction	Inside Dimensions			Door Opening		Weights			Capacity	Hapag-Lloyd Serial Number	Foot-note
	Length	Width	Height	Width	Height	Max. Gross	Tare	Max. Payload			
8'6" high	mm ft	mm ft	mm ft	mm ft	mm ft	kg lbs	kg lbs	kg lbs	m <sup>3</sup> cu.ft		
Steel container with corrugated walls and wooden floor	5 895 19'4 1/8"	2 350 7'8 1/2"	2 392 7'10 1/8"	2 340 7'8 1/8"	2 292 7'6 1/4"	30 480 67 200	2 250 4 960	28 230 62 240	33,2 1172	CPSU 100 000 – 108 362 CPSU 108 470 – 182 099 IVLU 955 076 – 957 000 HLXU 200 000 – 212 799 HLXU 212 800 – 239 799 HLXU 300 000 – 310 099	1) 2) 3) 1) 2) 3)
	5 900 9'4 1/4"	2 352 7'8 5/8"	2 395 7'10 1/4"	2 340 7'8 1/8"	2 292 7'6 1/4"	32 500 71 650	2 370 5 220	30 130 66 430	33,2 1172	HLXU 310 100 – 340 699 HLXU 340 800 – 354 699	1) 2) 3) 1) 2) 3)
and steel floor	5 895 19'4 1/8"	2 350 7'8 1/2"	2 392 7'10 1/8"	2 340 7'8 1/8"	2 292 7'6 1/4"	32 500 71 650	2 570 5 670	29 930 65 980	33,2 1172	HLXU 340 700 – 340 799 CPSU 108 363 – 108 469	1) 2) 3) 5)

Construction	Inside Dimensions				Weights			Capacity	Hapag-Lloyd Serial Number	Foot-note
	Length	Width	Height		Max. Gross	Tare	Max. Payload			
			Middle	Side				mm ft	mm ft	kg lbs
8'6" high ISO Size Type Code: 22U6	5 886 19'3 3/4"	2 342 7'8 1/8"	2 388 7'10"	2 313 7'7"	30 480 67 200	2 700 5 950	27 780 61 250	32,8 1160	FANU 260 200 – 261 799	4)
Steel container with corrugated walls, wooden floor and removable steel roof	5 886 19'3 3/4"	2 342 7'8 1/8"	2 388 7'10"	2 313 7'7"	30 480 67 200	2 700 5 950	27 780 61 250	32,8 1160	HLXU 365 000 – 365 649	4)
	5 859 19'3 3/4"	2 350 7'8 1/8"	2 390 7'9 1/2"	2 309 7'7 3/4"	32 500 71 650	2 850 6 280	29 650 65 370	32,1 1132	HLXU 365 650 – 365 949	4)

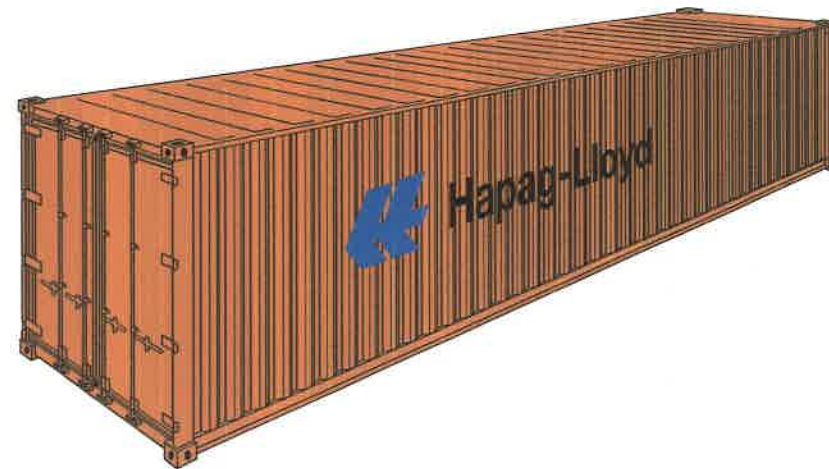
### Remarks:

- 1) 10 lashing rings on each top longitudinal rail; particularly suitable for the transport of hanging garments racks.
- 2) Provided with passive vents.
- 3) Provided with extra lashing rings/bars for the transport of liner bags in the corner posts adjacent to the corner castings.
- 4) For special information please see 20' Hard Top Container.
- 5) Max Gross 30 480 kg

## General Purpose Container

40'

ISO Size Type Code: 42G0, 42G1



- Majority of containers tested for ONE DOOR-OFF OPERATION limited stacking weight.
- Suitable for any general cargo.
- Floor Height 170 mm - 5mm (Ground level to interior floor surface)
- 21 lashing rings on each top longitudinal particularly suitable for the transport of hanging garment equipment. Lashing devices have a permissible load of 1000 kg (2 205 lbs) each.

## General Purpose Container

40'

Construction	Inside Dimensions			Door Opening		Weights			Capacity	Hapag-Lloyd Serial Number	Foot- note
	Length	Width	Height	Width	Height	Max. Gross	Tare	Max. Payload			
	mm ft	mm ft	mm ft	mm ft	mm ft	kg lbs	kg lbs	kg lbs	m <sup>3</sup> cu.ft		
<b>8'6" high</b>											
Steel container with corrugated walls and wooden floor	12 029 39'5 1/2"	2 350 7'8 1/2"	2 392 7'10 1/8"	2 340 7'8 1/8"	2 292 7'6 1/4"	30 480 67 200	3 780 8 330	26 700 58 870	67,7 2 390	CPSU 400 000 – 475 275 HLXU 400 000 – 449 999 HLXU 500 000 – 507 749 HLXU 509 750 – 510 249	
	12 032 39'5 5/8"	2 352 7'8 5/8"	2 395 7'10 1/4"	2 340 7'8 1/8"	2 292 7'6 1/4"	32 500 71 650	4 030 8 885	28 470 62 765	67,7 2 390	HLXU 507 750 – 509 749 HLXU 510 250 – 542 999	

Construction	Inside Dimensions				Weights			Capacity	Hapag-Lloyd Serial Number	Foot- note
	Length	Width	Height		Max. Gross	Tare	Max. Payload			
			Middle	Side				kg lbs		
mm ft	mm ft	mm ft	mm ft	mm ft	mm ft	kg lbs	kg lbs	kg lbs	m <sup>3</sup> cu.ft	
<b>8'6" high ISO Size Type Code: 42U6</b>										
Steel container with corrugated walls, wooden floor and removable steel roof	12 020 39'5 1/4"	2 342 7'8 1/8"	2 388 7'10"	2 313 7'7"	30 480 67 200	4 700 10 360	25 780 56 840	67,2 2 374	FANU 462 100 – 462 399	3)
	12 020 39'5 1/4"	2 342 7'8 1/8"	2 388 7'10"	2 313 7'7"	30 480 67 200	4 700 10 360	25 780 56 840	67,2 2 374	FANU 462 400 – 463 999 HLXU 465 000 – 466 249	3)
	12 020 39'5 1/4"	2 345 7'8 1/4"	2 380 7'9 5/8"	2 300 7'6 1/2"	30 480 67 200	4 700 10 360	25 780 56 840	65,3 2 306	HLXU 467 950 – 467 999	3)

**Remarks:**

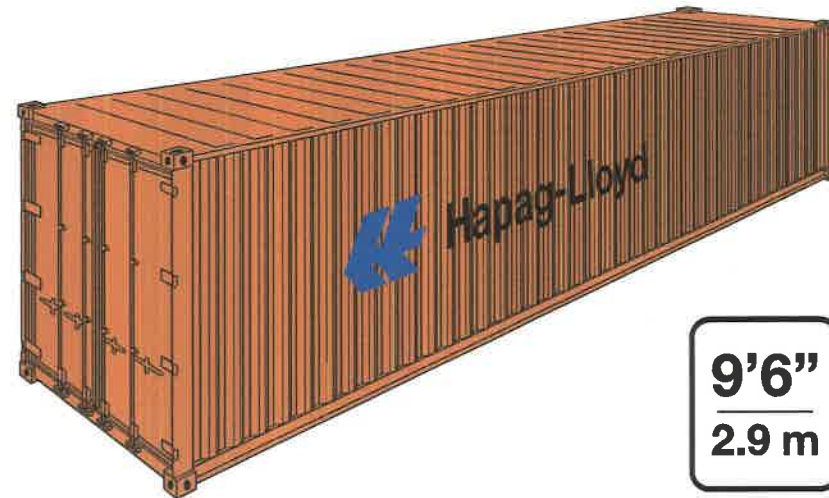
3) Special information, please see 40' Hard Top Container.



## High Cube General Purpose Container

40'

ISO Size Type Code: 45G0, 45G1



- Especially for voluminous cargo up to max. 2.70 m (8'10<sup>1</sup>/<sub>4</sub>") (see table).
- Numerous lashing devices on the top and bottom longitudinal rails and the corner posts.

- Lashing devices have a permissible load of 1 000 kg (2 205 lbs) each.
- Floor Height 170 mm - 5mm (Ground level to interior floor surface)

- **Consider overheight for inland transportation**
- Provided with passive vents. ISO size type code: 45 G1

## High Cube General Purpose Container

40'

Construction	Inside Dimensions			Door Opening		Weights			Capacity	Hapag-Lloyd Serial Number	Foot-note
	Length	Width	Height	Width	Height	Max. Gross	Tare	Max. Payload			
9'6" high	mm ft	mm ft	mm ft	mm ft	mm ft	kg lbs	kg lbs	kg lbs	m <sup>3</sup> cu.ft		
Steel container with corrugated walls and wooden floor	12 024 39'5 <sup>3</sup> / <sub>8</sub> "	2 350 7'8 <sup>1</sup> / <sub>2</sub> "	2 697 8'10 <sup>1</sup> / <sub>8</sub> "	2 340 7'8 <sup>1</sup> / <sub>8</sub> "	2 597 8'6 <sup>1</sup> / <sub>4</sub> "	30 480 67 200	4 020 8 860	26 460 58 340	76,3 2 694	HLXU 450 000 – 459 599 HLXU 633 600 – 635 399	
	12 032 39'5 <sup>5</sup> / <sub>8</sub> "	2 350 7'8 <sup>1</sup> / <sub>2</sub> "	2 699 8'10 <sup>1</sup> / <sub>4</sub> "	2 340 7'8 <sup>1</sup> / <sub>8</sub> "	2 597 8'6 <sup>1</sup> / <sub>4</sub> "	30 480 67 200	4 000 8 818	26 480 58 378	76,3 2 694	HLXU 600 000 – 627 099 HLXU 631 100 – 631 799 CPSU 600 000 – 648 568	
	12 032 39'5 <sup>5</sup> / <sub>8</sub> "	2 352 7'8 <sup>5</sup> / <sub>8</sub> "	2 700 8'10 <sup>1</sup> / <sub>4</sub> "	2 340 7'8 <sup>1</sup> / <sub>8</sub> "	2 597 8'6 <sup>1</sup> / <sub>4</sub> "	32 500 71 650	4 010 8 840	28 490 62 810	76,3 2 694	HLXU 627 100 – 631 099 HLXU 631 800 – 633 599 HLXU 635 400 – 655 899 HLXU 656 000 – 659 899	
	12 032 39'5 <sup>5</sup> / <sub>8</sub> "	2 352 7'8 <sup>5</sup> / <sub>8</sub> "	2 700 8'10 <sup>1</sup> / <sub>4</sub> "	2 340 7'8 <sup>1</sup> / <sub>8</sub> "	2 597 8'6 <sup>1</sup> / <sub>4</sub> "	32 500 71 650	4 460 8 840	28 040 62 810	76,3 2 694	HLXU 655 900 – 655 999	
and steel floor	12 032 39'5 <sup>5</sup> / <sub>8</sub> "	2 352 7'8 <sup>5</sup> / <sub>8</sub> "	2 700 8'10 <sup>1</sup> / <sub>4</sub> "	2 340 7'8 <sup>1</sup> / <sub>8</sub> "	2 597 8'6 <sup>1</sup> / <sub>4</sub> "	32 500 71 650	4 460 8 840	28 040 62 810	76,3 2 694	HLXU 655 900 – 655 999	

Construction	Inside Dimensions				Weights			Capacity	Hapag-Lloyd Serial Number	Foot-note
	Length	Width	Height		Max. Gross	Tare	Max. Payload			
			Middle	Side				kg lbs	kg lbs	kg lbs
9'6" high ISO Size Type Code: 45U6	mm ft	mm ft	mm ft	mm ft	kg lbs	kg lbs	kg lbs	m <sup>3</sup> cu.ft		
Steel container with corrugated walls, wooden floor and removable steel roof	12 020 39'5 <sup>1</sup> / <sub>4</sub> "	2 342 7'8 <sup>1</sup> / <sub>8</sub> "	2 693 8'10"	2 618 8'7"	30 480 67 200	4 900 10 803	25 580 56 394	75,8 2 677	HLXU 665 100 – 665 199 HLXU 467 000 – 467 299	1) 1)
	12 020 39'5 <sup>1</sup> / <sub>4</sub> "	2 342 7'8 <sup>1</sup> / <sub>8</sub> "	2 693 8'10"	2 618 8'7"	32 500 71 650	5 200 11 436	27 300 60 180	76,0 2 684	HLXU 665 200 – 666 849	1)
	12 020 39'5 <sup>1</sup> / <sub>4</sub> "	2 342 7'8 <sup>1</sup> / <sub>8</sub> "	2 693 8'10"	2 618 8'7"	32 500 71 650	5 200 11 436	27 300 60 180	76,0 2 684	HLXU 665 200 – 666 849	1)

### Remarks:

- 21 lashing rings on each top longitudinal rail; particularly suitable for the transport of hanging garment equipment.
- 1) Special information, please see 40' High Cube Hard Top Container.

## High Cube General Purpose Container

45'

ISO Size Type Code: L5G0, L5G1



- Especially for voluminous cargo up to max. 2.70 m (8'10<sup>1</sup>/<sub>4</sub>"') (see table).
- Minimum 10 Lashing rings on the top and bottom longitudinal rails.
- Units built with corner castings at 40 ft and 45 ft positions.
- Lashing devices have a permissible load of 1000 kg (2 205 lbs) each.
- Floor Height 170 mm - 5mm (Ground level to interior floor surface)
- **Consider overheight for inland transportation**
- **Provided with passive vents**

## High Cube General Purpose Container

45'

Construction	Inside Dimensions			Door Opening		Weights			Capacity	Hapag-Lloyd Serial Number	Foot- note
	Length	Width	Height	Width	Height	Max. Gross	Tare	Max. Payload			
9'6" high	mm ft	mm ft	mm ft	mm ft	mm ft	kg lbs	kg lbs	kg lbs	m <sup>3</sup> cu.ft		
Steel container with corrugated walls and wooden floor	13 532 44'4 <sup>3</sup> / <sub>4</sub> "	2 414 7'11"	2 694 8'10"	2 374 7'9 <sup>1</sup> / <sub>2</sub> "	2 585 8'5 <sup>3</sup> / <sub>4</sub> "	34 000 74 960	4 950 10 910	29 050 64 050	88,4 3 122	UESU 482 601 – 483 100	
	13 557 44'5 <sup>3</sup> / <sub>4</sub> "	2 353 7'8 <sup>5</sup> / <sub>8</sub> "	2 700 8'10 <sup>1</sup> / <sub>4</sub> "	2 340 7'8 <sup>1</sup> / <sub>8</sub> "	2 585 8'5 <sup>3</sup> / <sub>4</sub> "	30 420 67 064	4 820 10 626	25 660 56 570	86,1 3 041	UESU 483 751 – 484 750	
	13 556 44'5 <sup>45</sup> / <sub>64</sub> "	2 352 7'8 <sup>19</sup> / <sub>32</sub> "	2 700 8'10 <sup>19</sup> / <sub>64</sub> "	2 340 7'8 <sup>1</sup> / <sub>8</sub> "	2 597 8'5 <sup>3</sup> / <sub>4</sub> "	32 500 71 650	5 050 11 130	27 450 60 520	86,1 3 041	HLXU 900 000 – 900 199	1)

**Remarks:**

1) Lashing rings total 68. Lash roads total 16

## Hardtop Container

20'

### ISO Size Type Code: 22U6

- This container type has been designed and developed by Hapag-Lloyd.
- It has especially been constructed for
  - heavy loads
  - high, and excessively high loads
  - loading, e.g. by crane, through roof opening and door side.
- Floor Height 170 mm - 5mm (Ground level to interior floor surface)
- With the roof removed and the doorheader swung out, it is much easier to load cargo using a crane via the door side.
- The steel roof of most series (please see footnote) is fitted with fork-lift rings so that it can be removed by using a forklift. The weight of the steel roof is approx. 450 kg (990 lbs).
- In case your cargo has overheight the roof sections can be lashed to a sidewall inside the container using only some 13 cm (5<sup>1</sup>/<sub>8</sub>) of space.
- If required, we can provide disposable tarpaulins for the transport which can be fastened to the walls on the outside using lashing devices.



- The hardtop container provides many lashing devices to fasten your goods. The lashing devices on the corner posts and on the longitudinal rails of the roof and floor are capable of bearing loads of up to 2,000 kg (4,410 lbs) each, and those in the middle of the side walls up to 500 kg (1,100 lbs) each. Lashing to the side walls can only be done after the roof has been closed.
- Fork-lift pockets for loaded containers.
- Utilizable for bulk cargo.
- The roof can easily lifted by hand 70 mm (2<sup>3</sup>/<sub>4</sub>"), using the roof locking devices so that the door-header can be swung out without removing the roof.
- This container type has been designed for heavy loads. Whilst considering the technical data (including the permissible spreaded load limitations) please bear in mind the prevalent weight restrictions for land transport.
- For further information please ask for our brochure "The Hardtop Container".

## Hardtop Container

20'

Construction	Inside Dimensions				Weights			Capacity	Hapag-Lloyd Serial Number	Foot- note
	Length	Width	Height		Max. Gross kg lbs	Tare kg lbs	Max. Payload kg lbs			
			Middle mm ft	Side mm ft				m <sup>3</sup> cu.ft		
<b>8'6" high</b>	5 886 19'3 <sup>3</sup> / <sub>4</sub> "	2 342 7'8 <sup>1</sup> / <sub>8</sub> "	2 388 7'10"	2 313 7'7"	30 480 67 200	2 700 5 950	27 780 61 250	32,8 1160	FANU 260 200 – 261 399	
	5 887 19'3 <sup>13</sup> / <sub>16</sub> "	2 346 7'8 <sup>3</sup> / <sub>8</sub> "	2 390 7'10 <sup>3</sup> / <sub>32</sub> "	2 315 7'7 <sup>1</sup> / <sub>8</sub> "	30 480 67 200	2 590 5 710	27 890 61 490	32,8 1160	HLXU 365 000 – 365 649	1)2)3)
Steel container with corrugated walls, wooden floor and removable steel roof	5 887 19'3 <sup>13</sup> / <sub>16</sub> "	2 346 7'8 <sup>3</sup> / <sub>8</sub> "	2 390 7'10 <sup>3</sup> / <sub>32</sub> "	2 315 7'7 <sup>1</sup> / <sub>8</sub> "	32 500 71 650	2 850 6 283	29 650 65 366	31,8 1123	HLXU 365 650 – 365 949	1)2)3)

### Remarks:

- 1) Provided with passive vents.
- 2) 10 lashing rings on each top longitudinal rail; particularly suitable for the transport of hanging garment equipment.
- 3) Provided with extra lashing rings/bars for the transport of liner bags in the corner post adjacent to the corner castings.

Roof and door openings please see page 22.