

CARCA FT AIRCE AIR









WE WORK WITH WORLD LEADERS

For over 30 years, Volga-Dnepr Group's unique aircraft fleet has been advancing the world of air cargo logistics, enabling our global customers to achieve fast, secure and cost-efficient transportation solutions, even for their most complex logistics challenges.

Volga-Dnepr Group started with Volga-Dnepr Airlines in 1990 when its first An-124-100 departed on its inaugural charter flight. Since then, with more than three decades of successful operations, Volga-Dnepr gradually evolved into the Volga-Dnepr Group. Consisting of three international air cargo carriers, the Group provides it's customers with reliable and cost-efficient solutions for even the most complex cargo projects, supporting various industries including Aerospace, Oil and Gas, Automotive, Energy and beyond.







OUR GROUP

Volga-Dnepr unities **around 4,000 cargo professionals across the globe** who work under various aspects of cargo transportation to **guarantee a seamless customer experience for you**.

TODAY, Volga-Dnepr offers:

CARGO CHARTER OPERATIONS

delivered by three cargo carriers within the Group (Volga-Dnepr Airlines, AirBridgeCargo Airlines, ATRAN Airlines) onboard ramp An-124-100/150, II-76TD-90VD, Boeing 400ERF/8F, B777F and Boeing 737-400SF/800BCF.

SCHEDULED CARGO OPERATIONS

delivered by AirBridgeCargo Airlines and ATRAN Airlines onboard Boeing 747, 777 and Boeing 737 freighters between Russia, Asia, the Middle East, Europe and North America. The combined network of both carriers covers more than 40 destinations worldwide, with all flights operated into international cargo hubs offering fast, efficient and secure handling of any type of cargo.

SUPPORTING SERVICES

in the field of

- MRO
- logistics services
- training
- insurance
- trucking

10 AN-124-100 **2** AN-124-150

5 IL-76TD-90VD Boeing 747F

Boeing 777F

Boeing 737F



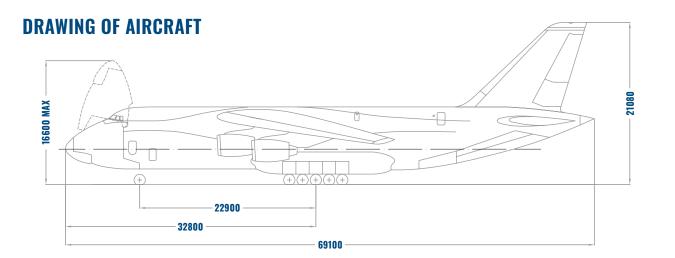


→ AIRCRAFT SPECIFICATION AN-124-100/150

The An-124-100 is the world's largest, mass produced, civil cargo aircraft and is a recognized leader of the air cargo industry for its ability to transport oversized and super-heavy shipments.

The combination of exceptional characteristics such as its cargo compartment size, flight range and uplift capability (without the need for special loading equipment) allows the **An-124** to carry super-heavy and oversized **cargoes including equipment up to 120 tonnes** (An-124-100) and **up to 150 tonnes** (An-124-150).

	AN-124-100	AN-124-150
ENGINE TYPE	4x Lotarev D-18 T	4x Lotarev D-18 T
ENGINE TAKE-OFF THRUST	4x 24 T Σ = 96 T	4x 24 T Σ = 96 T
MAXIMUM TAKE-OFF WEIGHT	392,000 kg	402,000 kg
OPERATING EMPTY WEIGHT	192,215 kg	192,559 kg
MAXIMUM PAYLOAD INCL. EQUIPMENT WEIGHT	120,000 kg	150,000 kg
MAXIMUM LANDING WEIGHT	330,000 kg	360,000 kg
MAXIMUM ZERO FUEL WEIGHT	306,000 kg	335,000 kg
CRUISING SPEED	750 km/h	750 km/h
CRUISING ALTITUDE	31,000 – 35,000 ft	31,000 – 35,000 ft
RANGE	4,500 km	4,500 km
MAXIMUM SINGLE LIFT WITH INTERNAL CRANES	20,000 kg	20,000 kg
ENGINEERING CREW	7 crew members	7 crew members
FLIGHT CREW	6 crew members	6 crew members





PAYLOAD INCL. EQUIPMENT WEIGHT

120,000/ 150,000 kg

RANGE

4,500/ 2,300 km

LOADING METHODS

- Pallets & crates loaded by forklift
- Use of the internal crane system
- Vehicles driven or winched into the aircraft
- Vehicles loaded on the Car Rack System
- Heavy or outsized items winched into the aircraft using the tracking system

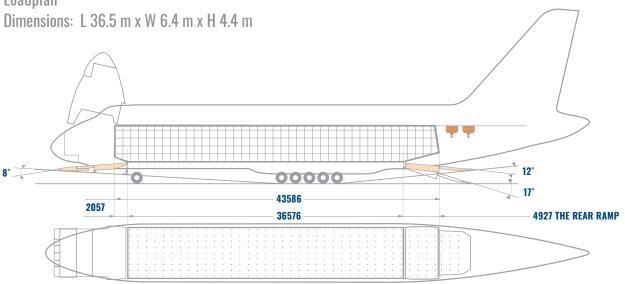


→ AIRCRAFT SPECIFICATION

AN-124-100/150

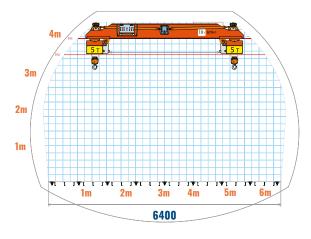
CARGO CAPABILITIES

Loadplan



CROSS SECTION

Frame No. 20





ENVIRONMENT IN THE CARGO CABIN

G-Factors

- **Forward** ▶ 2.3g
- Backward ► 1.5g
- Lateral ▶ 1.5g
- **Upward** ▶ 2.0g
- **Down** ▶ 2.5g

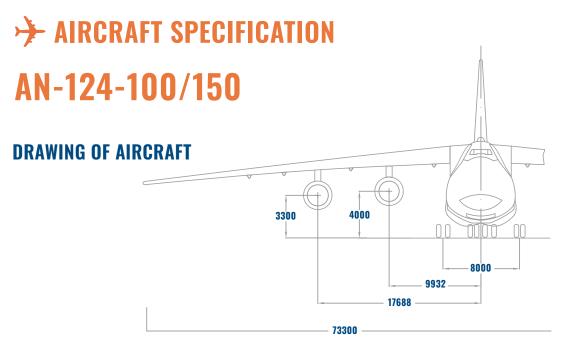
The lashing and preparation of cargo for flights must be done in respect of these maximum values.

AIR PRESSURE

- Minimum pressure (unpressurised cargo cabin)
 - ▶ 260 mbar
- Minimum pressure (pressurised cargo cabin)
 - ▶ 480 mbar +0/1/-0.02 kg/cm²
- Air pressure change rate
 - ▶ 70 mbar/min

TEMPERATURE RANGE

- Air Temperature
 - ► Up till 20° C upon request
- Humidity during flight
 - ▶ 10-15% RH



LOADING EQUIPMENT

- Internal Crane System consists of two gantries each with two lifting hooks. Capable of lifting single items of up to 20,000 kg. The containers must have suitable lifting points. The SPG system can be fitted to increase lifting capacity up to 30,000 kg but has further restrictions relating to the centre of gravity of the container and location of lifting points.
- **Double-deck loading and transport system** designed and patented by Volga-Dnepr allows the An-124-100 to transport up to 35 cars (average sedan) on a single flight; loading does not require any additional equipment; alternatively, cars can be driven or winched through the nose
- Bearings for elements of the front aircraft ramp or, to put it simply, under the front ramp of the An-124
- Extension ramps of various types of cargo
- Tracking systems (similar to railway tracks): 2 versions: low-profile and standard-profile
- Skate beams and roller beams
- Platforms of various design and load-carrying capacity
- Protective weight-distributing plating



IL-76TD-90VD

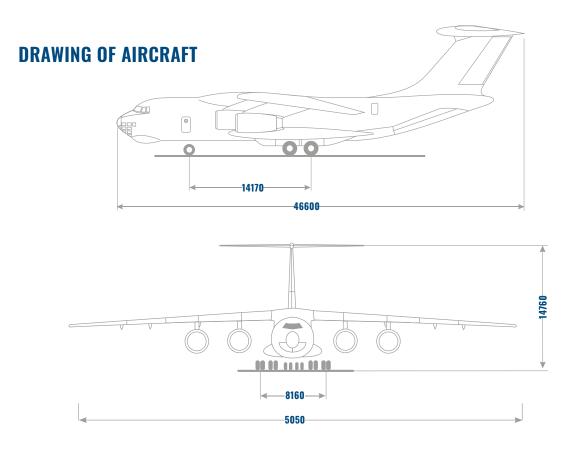
ENGINE TYPE	4x PS-90A-76
ENGINE TAKE-OFF THRUST	4x 16,000 kg f Σ = 64,000
MAXIMUM TAKE-OFF WEIGHT	195,000 kg
OPERATING EMPTY WEIGHT	97 243 kg
MAXIMUM PAYLOAD INCL. Loading Equipment	50,000 kg
MAXIMUM LANDING WEIGHT	155,000 kg
MAXIMUM ZERO FUEL WEIGHT	144,800 kg
CRUISING SPEED	750 km/h
FLIGHT LEVEL (TYPICAL)	9,100 m – 10,600 m
RANGE	4,500 km
CAPABILITY OF ONBOARD Crane System	12,000 kg
ENGINEERING CREW	4 crew members
FLIGHT CREW	4 crew members



→ AIRCRAFT SPECIFICATION IL-76TD-90VD

Volga-Dnepr participated in the cross-section modernisation of the IL-76TD, one of Volga-Dnepr's most successful cargo aircraft thanks to its cabin size, carrying capacity and autonomous loading capabilities.

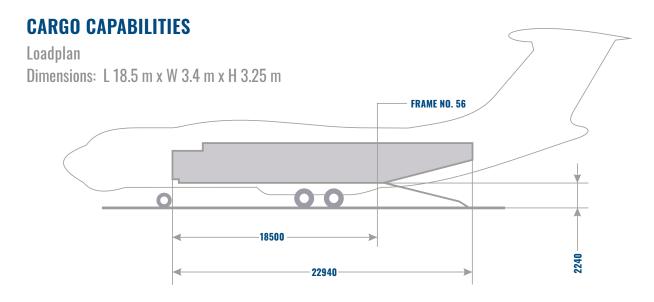
The resulting product is the IL-76TD-90VD, equipped with new PC-90A-76 engines and modern avionics, approved for worldwide operations.



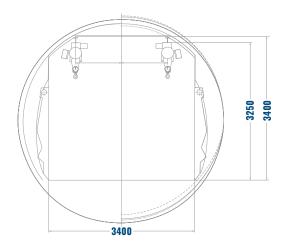




IL-76TD-90VD



CROSS SECTION



MAX. LANDING WEIGHT

195,000 kg

PAYLOAD INCL. EQUIPMENT WEIGHT

50,000 kg

RANGE

4,500 km

750 km/h



ENVIRONMENT IN THE CARGO CABIN

G-Factors

- Forward ➤ 2.23g
 (up to 6.0g in case of emergency landing)
- Backward ▶ 1.5g
- **Lateral** ▶ 1.5g
- **Upward** ▶ 2.0g
- **Down** ▶ 2.5g

The lashing and preparation of cargo for flights must be done in respect of these maximum values.

AIR PRESSURE

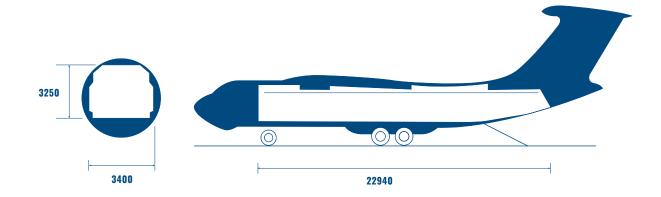
- Maximal pressure
 - ▶ 750 mbar (2 500m)
- Air pressure change rate
 - ▶ 15 mbar/min

TEMPERATURE RANGE

- Air Temperature
 - ▶ Up till 25° C upon request
- Humidity during flight
 - ▶ 10-15% RH

→ AIRCRAFT SPECIFICATION

IL-76TD-90VD



LOADING EQUIPMENT

- Internal Crane System The onboard system of overhead cranes consists of 4 electric hoists with 3-tonne lifting capacity each, they are capable of lifting single items of up to 12,000kgs
- The freighter is equipped with 2 onboard electric winches of 3-tonne hauling capacity each
- Loading of wheeled vehicles, trailers and tracked vehicles
- Ramp enables wheeled vehicles to be loaded using their own power
- Extension ramp can be applied for the loading of long and high vehicles
- Loading of heavy and outsize cargo
- Use of special Volga-Dnepr Airlines' loading equipment for loading of heavy and outsize cargo subject to usage of mobile crane(s) and additional trailers



(B)

→ AIRCRAFT SPECIFICATION BOEING 747-8F/400ERF

70,66 M

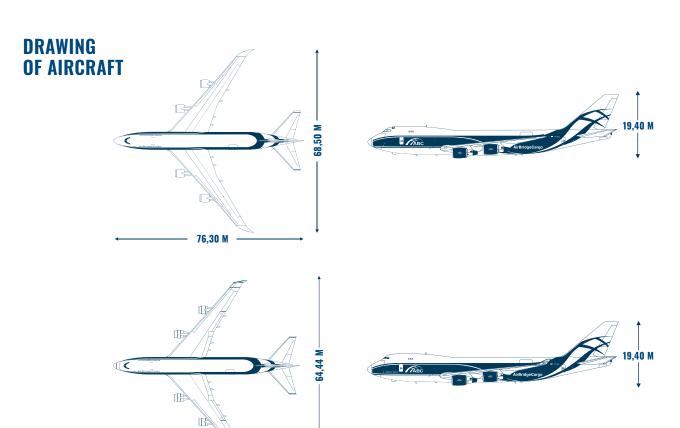
The Boeing 747 is an all-cargo aircraft and is **one of the most popular choices for cargo transportation**. Its unique features such as the large side door and nose door facilitate the ease and flexibility of loading.

BOEING 747-8F

MAXIMUM TAKE-OFF WEIGHT	447,695 kg / 986,998 lb
MAXIMUM LANDING WEIGHT	346,090 kg / 762,997 lb
MAXIMUM PAYLOAD INCL. Equipment	139,000 kg
MAIN DECK VOLUME	727 m³ / 25,674 ft³
LOWER HOLD VOLUME	206,6 m ³ / 7,296 ft ³
BULK	14 m³ / 496 ft³
ULD MAIN DECK	34 positions

BOEING 747-400ERF

MAXIMUM TAKE-OFF WEIGHT	412,769 kg / 910,000 lb
MAXIMUM LANDING WEIGHT	296,195 kg / 653,000 lb
MAXIMUM PAYLOAD INCL. Equipment	116,500 kg
MAIN DECK VOLUME	653 m³ / 23,061 ft³
LOWER HOLD VOLUME	157 m³ / 5,544 ft³
BULK	14 m³ / 520 ft³
ULD MAIN DECK	30 positions

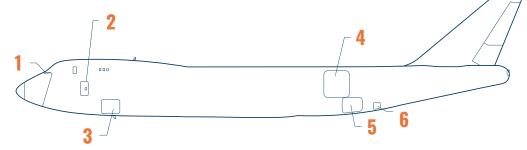






BOEING 747-8F/400ERF

DRAWING OF AIRCRAFT

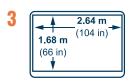




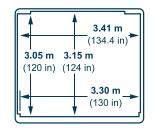
U/D entry door (STA 464) Left-hand side



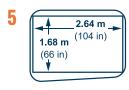
Fwd crew service door (STA 464) Left-hand side



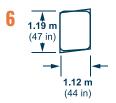
Fwd lower deck cargo door (STA 615) Right-hand side



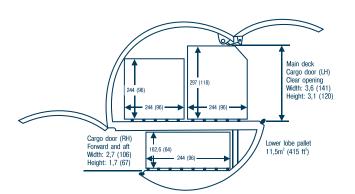
Main deck cargo door (STA 1770) Left-hand side

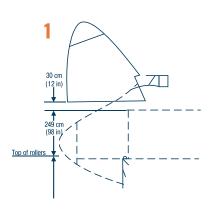


Aft lower deck cargo door (STA 1865) Right-hand side

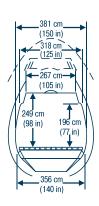


Bulk cargo door (STA 2007) Right-hand side







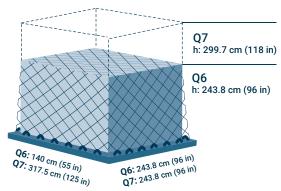




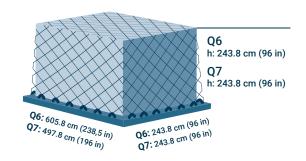


BOEING 747-8F/400ERF ULDs

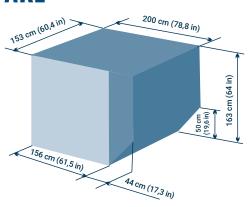
PYB



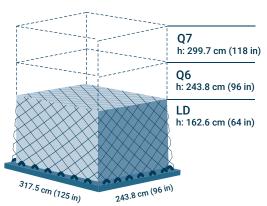
PGA/PGF



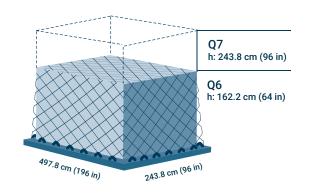
AKE



PMC



PZA

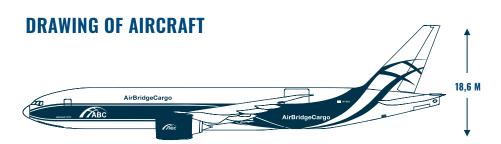






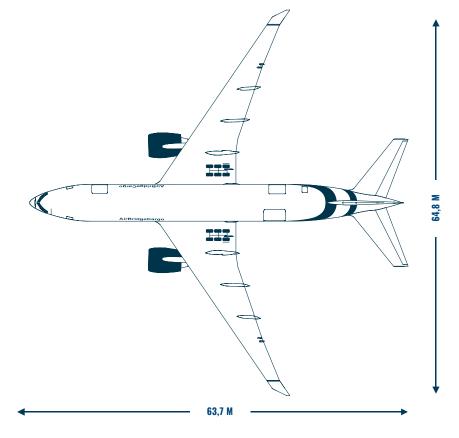
→ AIRCRAFT SPECIFICATION BOEING 777F

The Boeing 777 is the world's largest, most capable twin-engine frighter and offers 102 tonnes of playload. This aircraft as an ideal complement to our B747F family allowing us to provide a more sustainable and efficient service. Advanced technology including a new compisite wing, all-new engines and superior aerodynamics will result in enhanced benefits for our customers.



BOEING 777F

MAXIMUM TAKE-OFF WEIGHT	349,720 kg / 766,800 lb
MAXIMUM PAYLOAD INCL. Equipment	106,410 kg / 234,594 lb
RANGE	9,200 km / 4,970 nmi
CRUISE SPEED	Mach 0.84
TOTAL CARGO VOLUME	652.7 m³ / 23,051 ft³
ULD MAIN DECK	27 positions





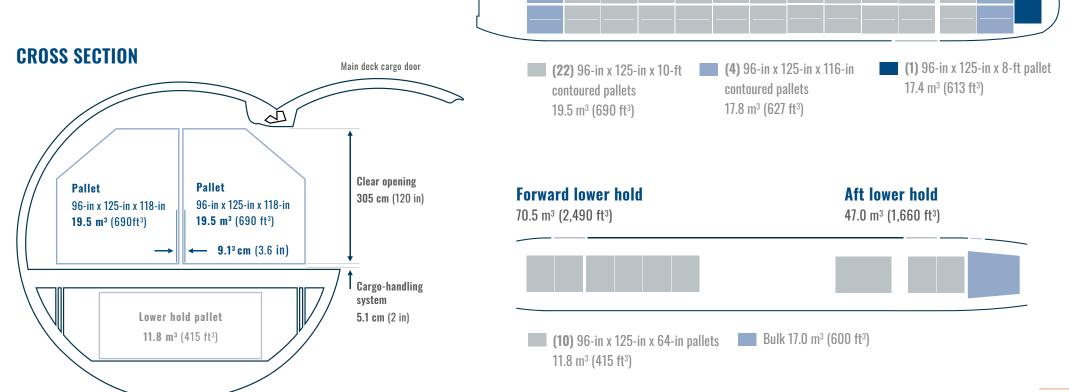


→ AIRCRAFT SPECIFICATION BOEING 777F

CARGO CAPABILITIES

Main deck

518.2 m³ (18,301 ft³)





BOEING 737-800BCF

79,000 kg / 174,200 lb	MAXIMUM TAKE-OFF WEIGHT
66,350 kg / 146,300 lb	MAXIMUM LANDING WEIGHT
23,950 kg	MAXIMUM PAYLOAD INCL. Equipment
141,5 m ² / 4,997 ft ³	MAIN DECK VOLUME
11	PALLETS AND CONTAINERS WITH BASE 88" X 125", TOTAL NUMBER

BOEING 737-400SF

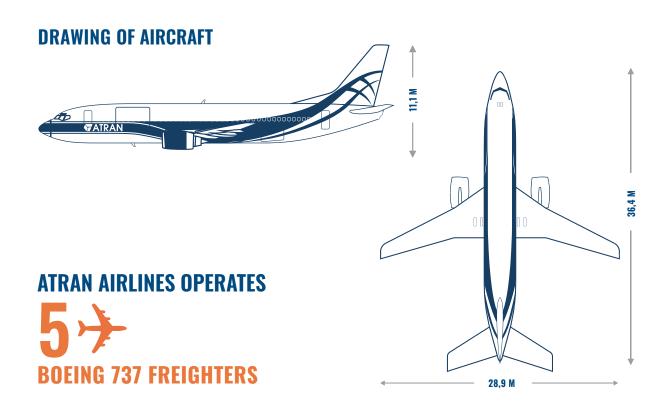
65,090 kg / 153,500 lb	MAXIMUM TAKE-OFF WEIGHT
55,338 kg / 122,000 lb	MAXIMUM LANDING WEIGHT
20,000 kg	MAXIMUM PAYLOAD INCL. Equipment
121,5 m ² / 4,289 ft ³	MAIN DECK VOLUME
10+1	PALLETS AND CONTAINERS WITH Base 88" x 125", total number



→ AIRCRAFT SPECIFICATION BOEING 737

The Boeing 737-400SF/800BCF is a twin-engine medium-haul aircraft that is **perfectly suited** to short and mid-range routes.

It is able to carry up to 20 tons and 130 m³ of cargo to a distance of 2,800 kilometres. The aircraft is equipped with a main deck side cargo door and a loading system enabling it to stow 10 standard 2235×3175 mm aviation pallets and containers in the cargo hold.





MAX. TAKE OFF WEIGHT

65,090 kg 153,500 lb

55,338 kg 122,000 lb

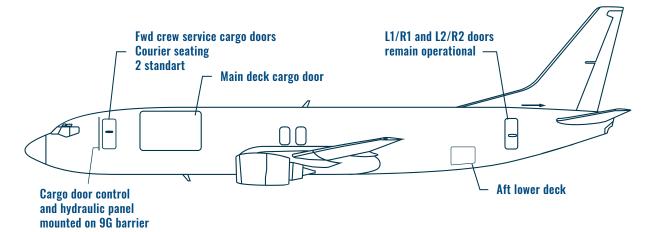
121,5 m² 4,289 ft³

3,200 kg

→ AIRCRAFT SPECIFICATION

BOEING 737-400SF/800BCF

CARGO CAPABILITIES



CARGO CAPABILITIES Dimensions

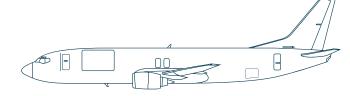
- Boeing 737-400SF
- Length 36.4 m / 119 ft
- Height 11.07 m / 36 ft
- Wing span 28.88 m / 94 ft

- Boeing 737-800BCF
- Length 39.5 m / 128 ft
- Height 12.54 m / 39.4 ft
- Wing span 35.8 m / 114.8 ft



BOEING 737-400SF/800BCF

CARGO CAPABILITIES

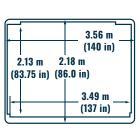


LOADING HEAVY CARGO

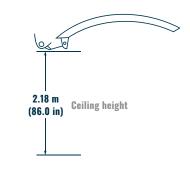
- The maximum weight for one piece of cargo is 3,200kg, on the condition that the dimensions of this piece do not exceed the dimensions of the pallet
- With a new scheme developed by ATRAN Airlines, should the cargo not exceed dimensions of 200 x 140 x 150cm, the weight of the cargo can be up to 6t

LOADING METHODS

- Loading oversized cargo (Main deck)
- Dimensions up to 380 x 100 x 100cm and must be reinforced on a pallet and loaded by the wide side of the pallets, turning 90 degrees on entrance to the main deck
- Loading cargo at an angle to the door of the main cargo decking



Main deck cargo deck

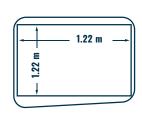




Position 1-10



Position 11



Aft lower deck cargo door

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