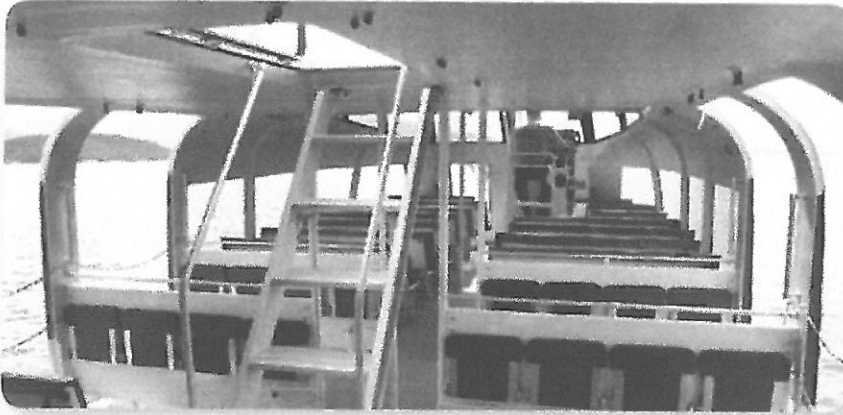


# Technical Descriptions

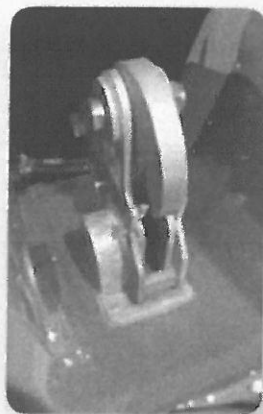
## Combined Cruise Tender / Partially Enclosed Lifeboat



COMBINED CRUISE TENDER / PARTIALLY ENCLOSED LIFEBOAT

| TYPE    | No of pers. lifeboat | No of pers. Tender | LOA mm | BOA mm | H mm | Weight Empty | Weight Loaded | Hook Distance | Lifting point |
|---------|----------------------|--------------------|--------|--------|------|--------------|---------------|---------------|---------------|
| CTL1200 | 150                  | 117                | 12090  | 4440   | 3660 | 11150        | 22400         | 11200         | 2490          |
| CTL38   | 150                  | 120                | 11920  | 4700   | 3900 | 12350        | 23600         | 11200         | 2800          |
| CTL38SV | 150                  | 120                | 11220  | 4700   | 3900 | 12350        | 23600         | 10500         | 2800          |

## Partially Enclosed Lifeboat



PARTIALLY ENCLOSED LIFEBOAT

| TYPE  | NO. of Persons | LOA mm | BOA mm | H mm | Weight Empty kg | Weight Loaded kg | Hook Distance | Lifting point |
|-------|----------------|--------|--------|------|-----------------|------------------|---------------|---------------|
| MPC32 | 150            | 9600   | 4500   | 3400 | 5850            | 17100            | 8500          | 2242          |

LOADING CONDITION: CS2011.20.12.DEP.ARU DEPARTURE ARUBA

FLOATING POSITION

Drafts at marks, measured below the keel.  
Trim is the difference of drafts at perpendiculars.  
Stability is based on sea condition.  
Sea (shelter) water density 1.025 (1)

|            |                    |        |         |
|------------|--------------------|--------|---------|
| Mid Draft  | 8.15 ( 8.30) m     | KM     | 18.08 m |
| Aft Draft  | 8.23 ( 8.35) m     | KG     | 15.64 m |
| Fwd Draft  | 8.07 ( 8.24) m     | GM0    | 2.43 m  |
| Trim       | A 0.17 ( A 0.12) m | GMcorr | -0.26 m |
| Heel       | P 0.11 deg         | GMf    | 2.17 m  |
| Eq. Draft  | 8.15 m -->         | GMreq  | 1.91 m  |
| Deflection | 0.00 m             | GMres  | 0.26 m  |

HYDROSTATICS

LCF 113.24 m LCB 119.96 m LCG 136.10m MCT 1504.3 tm/cm TPC 79.16 t/cm

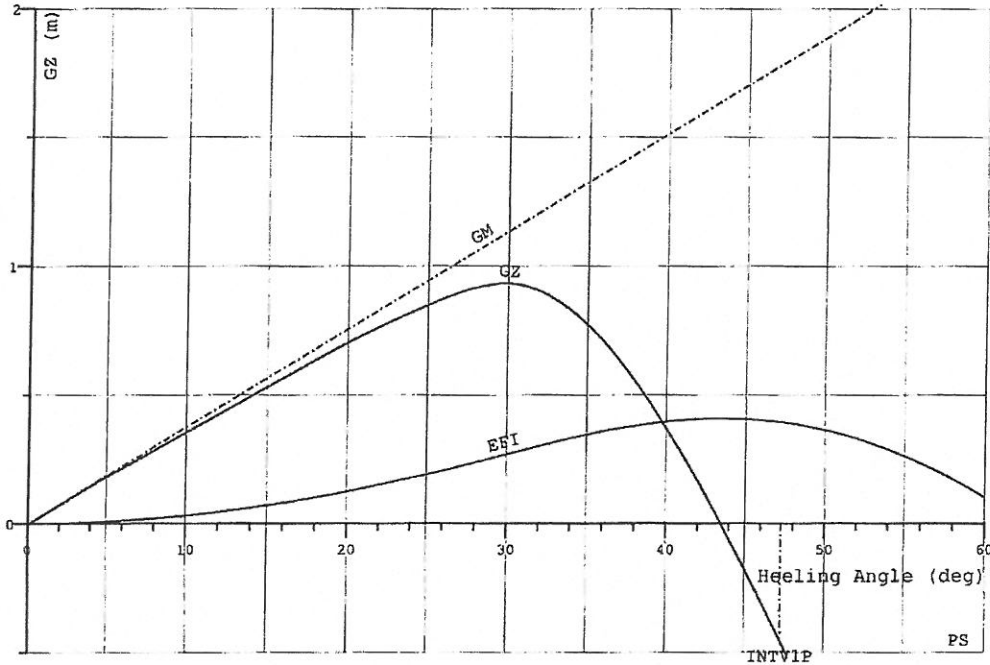
SUMMARY OF LOADS

| LIQUID LOADS         | Weight<br>t | LCG<br>m | TCG<br>m | VCG<br>m | GMcorr<br>m | Frsm<br>tm |
|----------------------|-------------|----------|----------|----------|-------------|------------|
| Awp system           | 228.1       | 161.63   | 0.43     | 2.85     | 0.00        | 59.6       |
| Grey water           | 635.3       | 117.93   | -0.87    | 1.83     | 0.06        | 2589.4     |
| Black water          | 98.8        | 176.57   | -0.73    | 2.15     | 0.00        | 140.3      |
| Heavy fuel oil       | 904.9       | 115.22   | -4.62    | 3.84     | 0.02        | 1077.5     |
| Heeling tanks        | 362.2       | 125.53   | 1.10     | 6.47     | 0.00        | 195.2      |
| Lub. oil             | 4.2         | 57.62    | 9.23     | 1.13     | 0.00        | 3.0        |
| Marine gas oil       | 1306.5      | 106.33   | 2.69     | 4.64     | 0.02        | 1054.3     |
| Miscellaneous tanks  | 125.8       | 86.90    | -4.08    | 1.17     | 0.01        | 416.8      |
| Potable water        | 1953.1      | 194.52   | 0.01     | 3.92     | 0.02        | 947.7      |
| Permanent bal. water | 739.3       | 95.34    | -0.42    | 0.90     | 0.00        | 0.0        |
| Swimming pool        | 214.7       | 145.55   | 1.02     | 35.42    | 0.02        | 1036.8     |
| Technical water      | 360.5       | 145.71   | -0.65    | 2.06     | 0.03        | 1491.7     |
| Ballast water        | 1202.0      | 141.97   | 1.87     | 2.40     | 0.07        | 3060.4     |
| TOTAL                | 8135.4      | 139.38   | 0.08     | 4.13     | 0.26        | 12072.6    |

| MASS LOADS           |       |        |      | #Aft  | #Fwd  | Length       |
|----------------------|-------|--------|------|-------|-------|--------------|
| CREW                 | 92.6  | 153.50 | 0.00 | 13.50 | -0.0  | 288.7 255.55 |
| CREW JACUZZIS        | 1.0   | 252.66 | 0.00 | 23.50 | 284.4 | 286.6 2.00   |
| DECK STORES          | 120.0 | 220.00 | 0.00 | 10.70 | 226.0 | 272.4 41.45  |
| ENGINE STORES        | 100.0 | 44.00  | 0.00 | 8.80  | -0.0  | 288.6 255.50 |
| HOTEL STORES         | 50.0  | 150.00 | 0.00 | 6.00  | 147.4 | 192.1 39.63  |
| MISCELLANEOUS STORES | 50.0  | 130.00 | 0.00 | 23.00 | -0.0  | 288.1 255.00 |
| PASS JACUZZIS        | 12.0  | 127.08 | 0.00 | 38.80 | 142.9 | 145.1 2.00   |
| PASSENGERS           | 197.2 | 137.50 | 0.00 | 25.85 | -0.0  | 288.1 255.00 |
| PROVISION STORES     | 300.0 | 36.00  | 0.00 | 10.20 | -18.1 | 100.2 105.00 |
| SW WHIRLPOOL         | 11.8  | 174.23 | 0.00 | 38.80 | 194.8 | 199.2 4.00   |
| WADDING POOL         | 2.0   | 20.10  | 0.00 | 41.30 | 16.6  | 27.6 10.00   |
| TOTAL                | 936.6 | 107.63 | 0.00 | 15.00 |       |              |

Lightweight 27105.0 116.02 0.02 18.18

LOADING CONDITION: CS2011.20.12.DEP.ARU, DEPARTURE ARUBA



STABILITY CURVE

| DISP      | RHO    | KMT    | GM0    | XCG    | YCG    | ZCG    |        |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 46267.0   | 1.025  | 18.08  | 2.43   | 119.96 | 0.00   | 15.64  |        |        |        |        |        |
| ANGLE     | 0.0    | 2.0    | 5.0    | 10.0   | 15.0   | 20.0   | 25.0   | 30.0   | 40.0   | 50.0   | 60.0   |
| MS        | -0.004 | -0.006 | -0.013 | -0.035 | -0.056 | -0.080 | -0.123 | -0.223 | -1.129 | -2.612 | -4.271 |
| GM0*SINF1 | 0.000  | 0.085  | 0.212  | 0.423  | 0.630  | 0.833  | 1.029  | 1.217  | 1.565  | 1.865  | 2.108  |
| DGZ       | 0.000  | 0.008  | 0.019  | 0.032  | 0.043  | 0.050  | 0.056  | 0.060  | 0.065  | 0.067  | 0.066  |
| GZ        | -0.004 | 0.071  | 0.180  | 0.355  | 0.531  | 0.702  | 0.849  | 0.933  | 0.371  | -0.814 | -2.229 |
| EFI       | 0.000  | 0.001  | 0.008  | 0.031  | 0.070  | 0.124  | 0.192  | 0.270  | 0.398  | 0.364  | 0.101  |

IMO Stability Criteria

| Criterion   | Description                            | Required | Attained | UNIT | Status |
|-------------|--|----------|----------|------|--------|
| AREA30      | Area under GZ curve up to 30 deg.      | 0.055    | 0.270    | mrاد | OK     |
| AREA40      | Area under GZ curve up to 40 deg.      | 0.090    | 0.398    | mrاد | OK     |
| AREA3040    | Area under GZ curve between 30 and 40. | 0.030    | 0.128    | mrاد | OK     |
| GZ0.2       | Max GZ > 0.2                           | 0.200    | 0.933    | m    | OK     |
| MAXGZ25     | Max. GZ at an angle > 25 deg.          | 25.000   | 29.838   | deg  | OK     |
| GM0.15      | GM > 0.15 m                            | 0.150    | 2.173    | m    | OK     |
| MAXHEELPASS | Max. heel due to crowding of pass.     | 10.000   | 1.744    | deg  | OK     |
| MAXHEELTURN | Max. heel due to turning               | 10.000   | 3.994    | deg  | OK     |

Recommended Criteria

| Criterion   | Description                    | Required | Attained | UNIT | Status |
|-------------|--------------------------------|----------|----------|------|--------|
| IMOWEATHER1 | Standard IMO weather, abt 57kn | 1.000    | 1.432    |      | OK     |
| IMOWEATHER2 | Reduced IMO weather, abt 50kn  | 1.000    | 1.959    |      | OK     |

## SHIP'S PARTICULARS

### General Information:

|   |  |
|---|--|
| Ship's Name   | Celebrity Constellation  |
| Shipyards Number  | U31  |
| Call Sign   | 9HJB9  |
| Communication Numbers via Inmarsat<br>From U.S.A. dial first - 011<br>From Europe dial first - 00 | Inmarsat – B Tel: 363-600-614 or 616<br>Fax: 363-600-620   |
|   | Inmarsat – C Tlx: 363-600-618  |
|   | Inmarsat Mini – M Tel: No.1: 763-190-380<br>Tel: No.2: 763-190-381 or 382 or 383                             |
|   | C – Band 001-305-982-9140  |
| IMO Number  | 9192399  |
| MMSI Number   | 249 046 000  |
| Flag  | Malta  |
| Home Port   | Valletta   |
| Official Number   | 9192399  |
| Owners  | Constellation Inc., 80 Broad Str. Monrovia, Liberia  |
| Owners Representatives  | Celebrity Cruises , MIAMI  |
| Built by  | "Chantiers de l' Atlantic" ALSTOM  |
| Date Keel Laid  | Feb. 5, 2001   |
| Date Floating Out   |  |
| Date of weighting and inclining test  |  |
| Year Built  | 2002   |
| Place Built   | St. Nazaire, France  |
| Number of Decks   | 16   |
| Hull Material   | Steel  |
| Sea Trials Speed  |  |
| Displacement at summer freeboard  | 47543t   |
| Light Ship weight   | 35765t   |
| Deadweight at 8.00 m draft moulded  | 8694t  |
| Deadweight at 8.30 m draft moulded  | 10976t   |
| Summer Draft  | 11763t   |
| Classification Society  | Lloyd's Register of Shipping and in compliance with Det Norske Veritas                                       |
| Class   | +100A1 Passenger Ship *IWS   |
| Class Notation  | +LMC 2/01, UMS, NAV, PSRM<br>2 Steam Generators: 44.8 bar / 2/01<br>1 Aux. Oil Fired Boiler: 10.0 bar / 2/01 |
| Descriptive Notations   | LI   |
| Comfort Class   | Det Norske Veritas   |

|                                  |  |
|----------------------------------|--|
| Regulations comply with          | U.S.C.G. and U.S.P.H. for foreign vessels. Certified for Panama Canal Region. ITU, IEC & ILO.  |
| Total life saving appliances for | 4325 persons   |
| Maximum number of passengers     | 2449 persons   |
| Crew                             | 1001 persons   |
| Other information                | The ship has 20,000 tons of steel and it is constructed with about 150,000 to 200,000 pieces. Have 16 Robot washing machines. Utilized 1,300km of cables, 200,000 liters of paint. |

### Tonnage Values:

|                      |               |
|----------------------|---------------|
| International G.R.T. | 90228         |
| International N.R.T. | 53239         |
| Panama net tonnage   | 73805         |
| Suez gross tonnage   | 91790.26 tons |
| Suez net tonnage     | 83383.64 tons |

### Main Dimensions:

|  |                       |
|--|-----------------------|
| Length Over All (LOA)                        | 294.00 m – 964.32 ft  |
| Length Between Perpendiculars (LBP) – design | 262.700 m             |
| Length Between Perpendiculars – free board   | 263.164 m             |
| Length Between Perpendiculars – scantling    | 263.100 m             |
| SOLAS Length                                 | 263.00 m              |
| Subdivision draft                            | 8.323 m               |
| Moulded Depth Amidships to Upper Deck        | 9.86 m                |
| Maximum Draught                              | 8.30 m                |
| Breadth moulded                              | 32.200 m              |
| Breadth overall (Hull outside fenders)       | 32.310 m              |
| Total breadth (Wheelhouse wings)             | 37.40 m               |
| Height from Keel to top of the Mast          | 81.50 m               |
| Air Draught                                  | 54.30 m               |
| Distance DOLOG – Transducer to bow           | 26 m                  |
| Distance DOLOG – Transducer to stern         | 268 m                 |
| Distance DOLOG – Transducer to Starboard     | 16 m                  |
| Distance DOLOG – Transducer to Port          | 16 m                  |
| Distance Bridge to bow                       | 41 m                  |
| Distance Bridge to stern                     | 253 m                 |
| Length at waterline level full load          | 266.4 m               |
| Length at waterline level ballast            | 274.1 m               |
| Distance bow thrusters to bow                | 25 m                  |
| Depth double bottom                          | 1.60 m                |
| Depth to Tween Deck                          | 5.00 / 4.600 m / BL   |
| Depth to Deck 0                              | 7.800 m / BL          |
| Depth to Deck 1                              | 9.860 / 10.600 m / BL |
| Depth to Deck 2                              | 13.500 m / BL         |

|                              |                             |
|------------------------------|-----------------------------|
| Depth to Deck 3              | 16.30 / 17.20 m / BL        |
| Depth to Deck 4              | 19.7 / 19.45 / 19.15 m / BL |
| Depth to Deck 5              | 23.000 m / BL               |
| Open Tween Deck              | 26.300 m / BL               |
| Depth to Deck 6              | 27.150 m / BL               |
| Depth to Deck 7              | 29.900 m / BL               |
| Depth to Deck 8              | 32.600 m / BL               |
| Depth to Deck 9              | 35.300 m / BL               |
| Depth to Deck 10             | 38.00 m / BL                |
| Depth to Deck 11             | 41.200 m / BL               |
| Depth to Deck 12             | 45.550 m / BL               |
| Radar Mast height above keel | 61.82 m                     |
| Funnel height above keel     | 62.37 m                     |
| Keel thickness               | 23 mm                       |

### Assigned Loan Lines:

|   |            |
|---|------------|
| Ship freeboard type   | Type B     |
| Freeboard length  | 263.164 m  |
| Depth to freeboard deck (deck line)<br>(continuation of aft part of deck 1) | 9.872 m/BL |

| Load Lines     | Freeboard from deck line | Fresh water allowance |
|----------------|--------------------------|-----------------------|
| Tropical fresh | 1422 mm                  | 150 mm above summer   |
| Fresh water    | 1422 mm                  | 150 mm above summer   |
| Tropical       | -                        | 0                     |
| Summer         | 1572 mm                  |                       |
| Winter         | -                        | 0                     |
| Winter NA      | Not applicable           |                       |

Maximum summer draft amidship to the bottom of the keel corresponding to the summer freeboard is 8.323 m

### Passengers – Officers and Crew Accommodations:

|  |      |
|--|------|
| Total Passengers Cabins                            | 1019 |
| Total Passengers Beds (including sofas & Pullmans) | 3448 |
| Total Crew Cabins                                  | 533  |
| Total Crew Beds                                    | 1001 |

### Passengers and Crew Facilities:

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| Passenger Elevators                 | 10                                   |
| Crew – Service Elevators            | 7                                    |
| Lifting platforms for Engine spares | 2 x 2000 kg each, Port and Starboard |
| Lifting platforms for provisions    | 2 x 2000 kg each, Port and Starboard |

**Main Characteristics of Machinery:**

|                          |                       |                                |
|--------------------------|-----------------------|--------------------------------|
| Gas Turbine Generators   | Nr.                   | 2                              |
|                          | Supplier              | General Electric               |
|                          | Type                  | LM 2500 + GE                   |
|                          | Power                 | 2 x 25000 kW at 3600 rpm       |
| Generators               | Nr.                   | 2                              |
|                          | Supplier              | GEC ALSTHOM                    |
|                          | Type                  | 2 x 25000 kW                   |
|                          | Voltage               | 11000 V – 60 Hz                |
| Exhaust Gas Economizers  | Nr.                   | 2                              |
|                          | Supplier              | DELTA K                        |
|                          | Type                  | 2.HRSG                         |
|                          | Steam Capacity        | 2 x 38t/h, 32 Bar              |
| Steam Turbine Generators | Nr.                   | 1                              |
|                          | Supplier              | FINCANTIERI                    |
|                          | Power                 | 8000 kW at 1800 rpm            |
| Electric Propulsion      | Nr.                   | 2 x POD                        |
|                          | Supplier              | ALSTOM DCF MERMAID             |
|                          | Shaft Power           | 2 x 20100 kW at 153 rpm        |
| Engines Data             | Maximum Starts        | No limit                       |
|                          | Minimum RPM           | 0                              |
|                          | Power Ahead           | 2 x 19500 kW                   |
|                          | Power Astern          | 2 x 8000 kW                    |
|                          | Time Ahead to Astern  | Maxi ~ 120 sec. Normal 15 sec. |
|                          | Time Limit Astern     | No limit                       |
| Propellers               | Nr.                   | 2                              |
|                          | Supplier              | KaMeWa 4 removable blades      |
|                          | Dimension             | 5.75 m                         |
|                          | Direction of rotation | Inward                         |
|                          | Type                  | Fixed pitch                    |
|                          | Propellers material   | ALCuNi                         |
|                          | Full away             | 150 rpm                        |
|                          | Full ahead maneuver   | 100 rpm                        |
|                          | Half ahead            | 75 rpm                         |
|                          | Slow ahead            | 50 rpm                         |
|                          | Dead slow ahead       | 25 rpm                         |
|                          | Full astern           | 100 rpm                        |
|                          | Half astern           | 75 rpm                         |
|                          | Slow astern           | 50 rpm                         |
|                          | Dead slow astern      | 25 rpm                         |

|                   |          |         |
|-------------------|----------|---------|
| Oil Fired Boilers | Nr.      | 1       |
|                   | Supplier | AALBORG |
|                   | Power    | 5 t/h   |

|              |          |             |
|--------------|----------|-------------|
| Incinerators | Nr.      | 2           |
|              | Supplier | NORSK INOVA |

|   |          |                            |
|---|----------|----------------------------|
| Auxiliary Diesel Engine<br>(Additional) | Nr.      | 1 – Deck 11 Starboard side |
|   | Supplier | PAXMAN                     |
|   | Power    | 3000 kW                    |
|   | Voltage  | 11000 V                    |

|                                      |          |                       |
|--------------------------------------|----------|-----------------------|
| Emergency Diesel<br>Engine Generator | Nr.      | 1 – Deck 11 Port side |
|                                      | Supplier | SDMO                  |
|                                      | Power    | 1200 kW               |
|                                      | Voltage  | 440 V                 |

|                       |            |             |
|-----------------------|------------|-------------|
| Fresh Water Generator | Nr.        | 2           |
|                       | Supplier   | SERCK COMO  |
|                       | Production | 2 x 700 t/d |

|                       |            |         |
|-----------------------|------------|---------|
| Reverse Osmosis Plant | Nr.        | 1       |
|                       | Production | 400 t/d |

**Hull:**

|                                 |                |                                   |
|---------------------------------|----------------|-----------------------------------|
| Aft deck mooring<br>arrangement | Nr.            | 4                                 |
|                                 | Supplier       | BRISSENEAU & LOTZ MARINE          |
|                                 | Electric winch | 59t on drum / 20t on warping head |

|                                  |          |  |
|----------------------------------|----------|--|
| Fore deck mooring<br>arrangement | Nr.      | 2  |
|                                  | Windlass | 296t Electrical combined windlass<br>winch |
|                                  | Winch    | 60t on drum / 20t on warping head          |

|              |                               |                                |
|--------------|-------------------------------|--------------------------------|
| Anchors      | Maker                         | Jiangnan Shipyard – P.R. China |
|              | Mass                          | 1 x 12900 kg                   |
|              |                               | 1 x 12870 kg                   |
| 1 x 12840 kg |                               |                                |
| Type         | Stockless, High holding power |                                |



|                     |                  |   |
|---------------------|------------------|---|
| Anchors Chain Cable | Maker            | Zhenjiang Anchor Chain Factory – P.R. China |
|                     | Type             | D.95 mm – U3a – 747.1 m                     |
|                     | Length           | 1 shackle 27.5 m or 15.04 fathoms           |
|                     | Port side Anchor | 13 x 27.5 m = 357.5 m                       |
|                     | Stbd side Anchor | 14 x 27.5 m = 380.0 m                       |
|                     | Total Mass       | 147.167t                                    |

|               |                        |                                       |
|---------------|------------------------|---------------------------------------|
| Bow Thrusters | Nr.                    | 3                                     |
|               | Supplier               | BRUNVOLL                              |
|               | Type                   | 4 blades controllable pitch propeller |
|               | Power                  | 3 x 2350 kW Total 7050 kW             |
|               | Material of propellers | ALCuNi                                |

|             |  |                          |
|-------------|--|--------------------------|
| Stabilizers | Nr.  | 1 pair                   |
|             | Supplier   | BLOM and VOSS            |
|             | Area   | 19m <sup>2</sup>         |
|             | Type   | S 800 – Folding type     |
|             | Roll reduction at design draught                 | 90% with 3.5° wave slope |
|             | Efficiency fin area                              | 19m <sup>2</sup>         |
|             | Max operating angle of the fins                  | ±18°                     |
|             | Max rotating angle of the fins (mechanical stop) | ±22°                     |
|             | Max rotating angle of the tail flaps             | ±33°                     |
|             | Max time for retracting and extension            | 120 sec.                 |

|             |         |   |
|-------------|---------|---|
| Shell Doors | Deck 01 | 101 – 102 – 103 – 104 – 105 – 106 107 – 108 – 109 – 110 – 111 – 112 – 113 – 114 – 115 – 116 |
|             | Deck 02 | 201 – 202   |
|             | Deck 03 | 301 – 302   |
|             | Deck 04 | 401 – 402   |

|                              |                     |  |
|------------------------------|---------------------|--|
| Tender Embarkation Platforms | Nr.                 | 2 x 2 Fore and Aft, Port and Starboard |
|                              | Supplier            | SLAM TECHNOLOGIES                      |
|                              | Dimensions          | L = 6 m x W = 2.5 m                    |
|                              | Embarkation Ladders | L = 2.73 m x W = 0.765 m Aluminum      |

|                       |            |                           |
|-----------------------|------------|---------------------------|
| Accommodation Ladders | Nr.        | 1 x 2 (one on each side)  |
|                       | Supplier   | VERHOEF ALUMINUM          |
|                       | Dimensions | L = 6.720 m x W = 0.915 m |

|                |                 |                                     |
|----------------|-----------------|-------------------------------------|
| Deck Cranes    | Nr.             | 1 x 2 (one on each side on Deck 11) |
|                | Supplier        | PELEGRINI                           |
|                | Type            | CHCD 0206                           |
|                | Serial Numbers  | 9305 & 9306                         |
|                | Lifting angle   | 75°                                 |
|                | Swing angle     | 350°                                |
|                | S.W.L.          | 1.962 tons                          |
|                | Hoisting height | 50 m                                |
|                | Nr.             | 1 x 2 (one on each side on Deck 2)  |
|                | Supplier        | AMGC                                |
|                | Type            | F99450                              |
|                | Serial Numbers  | 296BD & 297TD                       |
|                | S.W.L.          | 0.5 tons                            |
|                | Nr.             | 1 x 2 (one on each side on Deck 1)  |
|                | Supplier        | INGERSOL RAND                       |
| Type           | PQL 2000K       |                                     |
| Serial Numbers | 990948 & 990942 |                                     |
| S.W.L.         | 2 tons          |                                     |

|                   |                            |   |
|-------------------|----------------------------|---|
| Lifting Platforms | Nr. (Engine's spare parts) | 1 x 2 (one on each side between Decks 1, 0, -1) |
|                   | Supplier                   | IMECA S.A.                                      |
|                   | Serial Number              | LVPBQ03 & LVPBQ04                               |
|                   | S.W.L.                     | 2 tons  |
|                   | Nr. (Provisions)           | 1 x 2 (one on each side on Decks 1 & 0)         |
|                   | Supplier                   | IMECA S.A.                                      |
|                   | Serial Number              | LVPBQ01 & LVPBQ02                               |
|                   | S.W.L.                     | 2 tons  |

## Safety Data

### Life Saving Appliances:

|            |               |                                     |           |
|------------|---------------|-------------------------------------|-----------|
| Life Boats | Nr.           | 14 semi-close. Capacity 150 persons |           |
|            | Supplier      | GREBEN – Croatia                    |           |
|            | Type          | PEL 150-S                           |           |
|            | Serial Number | 01 – 4512                           | 08 – 4520 |
|            |               | 02 – 4518                           | 13 – 4519 |
|            |               | 03 – 4514                           | 14 – 4521 |
|            |               | 04 – 4515                           | 15 – 4525 |
|            |               | 05 – 4516                           | 16 – 4523 |
|            |               | 06 – 4517                           | 17 – 4524 |
| 07 – 4513  |               | 18 – 4522                           |           |

|                  |          |  |
|------------------|----------|--|
| Tender Lifeboats | Nr.      | 4 x 150 prs as Lifeboats<br>4 x 120 prs as Tenders |
|                  | Supplier | HARDING  |
|                  | Type     | CTL 38   |

|              |               |                          |
|--------------|---------------|--------------------------|
| Rescue Boats | Nr.           | 2 for 6 persons each     |
|              | Supplier      | GREBEN                   |
|              | Type          | RB – 7A                  |
|              | Serial Number | 01 – 4532      02 – 4533 |

|            |          |  |
|------------|----------|--|
| Life Rafts | Nr.      |  |
|            | Supplier |  |
|            | Type     |  |

|                  |          |  |
|------------------|----------|--|
| Spare Life Parts | Nr.      |  |
|                  | Supplier |  |
|                  | Type     |  |

|                        |                        |                         |
|------------------------|------------------------|-------------------------|
| Life Saving Appliances | Life Boats             | 14 x 150 = 2700 persons |
|                        | Life Rafts             | = 1625 persons          |
|                        | <b>Total</b>           | <b>4325 persons</b>     |
|                        | Life Buoys             | 32 x ALTURA             |
|                        | Adult Lifejackets      | 4598 x COSALT           |
|                        | Children's Lifejackets | 250 x COSALT            |
|                        | Baby Cribs             | 50                      |
| Immersion suits        | 12 x Guy Cotten        |                         |

**Others:**

|            |                                    |                                       |
|------------|------------------------------------|---------------------------------------|
| Helicopter | Landing Area                       | Forecastle                            |
|            | Diameter of clear zone             | 7.5 m                                 |
|            | Additional fire equipment provided | Fixed foam monitors and safety locker |

|                             |             |  |
|-----------------------------|-------------|--|
| Low Location Lighting – LLL | Maker       | PROLINK AS – Norway  |
|                             | System Type | Electrical in passengers areas and photo-luminescent in crew areas |

|                     |  |  |
|---------------------|--|--|
| Radio Communication | GMDSS  |  |
|                     | 2 x INMARSAT "C" ISN 99204932 & 99204936         |  |
|                     | 2 x INMARSAT "B" ISN 3EC001629262 & 3EC00137669A |  |
|                     | 4 X Mini M                                       | ISN 76AE02C544BC & 76AE02CEB1AA<br>ISN 76AE02DA55F5 & 76AE020C0FB2 |
|                     | MF/HF Radiotelephony                             |  |
|                     | VHF Two-way                                      |  |

|                  |                     |                            |
|------------------|---------------------|----------------------------|
| Fireman's Outfit | Complete outfits    | 44 outfits                 |
|                  | Additional outfits  | 8 outfits                  |
|                  | Breathing apparatus | 44 x UNITOR Spiromatic, 90 |
|                  | Spare cylinders     | 88 interchangeable         |
|                  | Safety helmets      | 6 x SOLO safety helmets    |

|                   |                           |     |            |
|-------------------|---------------------------|-----|------------|
| Fire Screen Doors | Normally closed single    | 292 |            |
|                   | Normally closed double    | 12  | <b>304</b> |
|                   | Normally open single      | 237 |            |
|                   | Normally open double      | 30  | <b>267</b> |
|                   | Sliding doors single      | 144 |            |
|                   | Sliding doors double      | 22  |            |
|                   | In front of Refrigerators | 6   |            |
|                   | Roller                    | 6   | <b>178</b> |
|                   | <b>Total F.S.D.</b>       |     | <b>749</b> |

|   |              |           |         |          |
|---|--------------|-----------|---------|----------|
| Fire Screen Doors<br>As distributed by Deck | Tan Top Deck | 9 doors   | Open TD | 0 doors  |
|   | Tween Deck   | 23 doors  | Deck 6  | 51 doors |
|   | Deck 0       | 60 doors  | Deck 7  | 51 doors |
|   | Deck 1       | 136 doors | Deck 8  | 49 doors |
|   | Deck 2       | 66 doors  | Deck 9  | 48 doors |
|   | Deck 3       | 72 doors  | Deck 10 | 57 doors |
|   | Deck 4       | 49 doors  | Deck 11 | 16 doors |
|   | Deck 5       | 57 doors  | Deck 12 | 5 doors  |

|  |             |           |
|--|-------------|-----------|
| Fire Screen Doors<br>As distributed by Fire Zone | Fire Zone 1 | 27 doors  |
|  | Fire Zone 2 | 118 doors |
|  | Fire Zone 3 | 123 doors |
|  | Fire Zone 4 | 90 doors  |
|  | Fire Zone 5 | 119 doors |
|  | Fire Zone 6 | 148 doors |
|  | Fire Zone 7 | 124 doors |

|                   |               |                 |
|-------------------|---------------|-----------------|
| Water Tight Doors | Tank Top Deck | 8 doors         |
|                   | Tween Deck    | 6 doors         |
|                   | Deck 0        | 15 doors        |
|                   | Deck 1        | 1 doors         |
|                   | <b>Total</b>  | <b>30 doors</b> |

|                        |        |                                |
|------------------------|--------|--------------------------------|
| Semi-Water Tight Doors | Deck 1 | 22 doors (including on F.S.D.) |
|------------------------|--------|--------------------------------|