

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name **ATLANTIC QUEEN** Official Number **9025** Nationality and Port of Registry **Swedish Kungsbacka** Gross Tonnage **14668 (Summ)** Date of Build **1948 11** Port of Survey **Gothenburg**

Moulded Dimensions: Length **170.685 M.** Breadth **22.707 M.** Depth **12.877 Metres**

Freeboard Length **171.085 Metres to Centre Line of Rudder Stock.**

Moulded displacement at moulded draught = 85 per cent. of moulded depth **33950 M³**

Coefficient of fineness for use with Tables **790**

Date of Survey **Whilst Building**

Surveyor's Signature *[Signature]*

Particulars of Classification **+100A1**
Carrying Petroleum in bulk

Depth for Freeboard (D).	M.	Depth correction.	Round of Beam correction.
Moulded depth	12.877	(a) Where D is greater than Table depth (D—Table depth) R = $8.33(12.903 - 11.406)30 = +374 \text{ m/m}$	Moulded Breadth (B) 22.707 m.
Stringer plate	.026	(b) Where D is less than Table depth (if allowed) (Table depth—D) R = 1.497	Standard Round of Beam = $\frac{B \times 1}{50} = 0.454 \text{ m}$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$			Ship's Round of Beam = 0.450 M.
Depth for Freeboard (D) = 12.903		If restricted by superstructures <input checked="" type="checkbox"/>	Difference -4
			Restricted to
			Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{4 \times 659}{4} = +1 \text{ m/m}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed Equiv.	35.950	35.950	2440	✓	35.950
» overhang					
R.Q.D. enclosed					
» overhang					
Bridge enclosed					
» overhang aft					
» overhang forward					
	22.395	22.395	2440	✓	22.395
» forward					
Tonnage opening aft					
» forward					
Total	58.345	58.345			58.345

Standard Height of Superstructure **2.290 m.**

» » R.Q.D. ☒

Deduction for complete superstructure **1067 m/m.**

Percentage covered $\frac{S}{L} =$

» » **4.10**

Percentage from Table (corrected for absence of forecastle [if required])

Interpolation for bridge less than 2L (if required) ☒

Deduction = $1067 \times 2.510 = -268 \text{ m/m}$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	1679	1	1679	1158	1158	1	1158
1/6 L from A.P.	746	4	2984	86	86	4	344
2/6 L	187	2	374	0	✓	2	✓
Amidships	✓	4	✓	0	✓	4	✓
2/6 L from F.P.	373	2	746	0	✓	2	✓
1/6 L	1492	4	5968	583	583	4	2332
F.P.	3358	1	3358	2200	2200	1	2200
Total			15109				6034

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{9075}{18} \left(.75 - \frac{1705}{5795} \right) = +292 \text{ m/m}$

If limited on account of midship superstructure. ☒

Mean actual sheer aft = } Deficient

Mean standard sheer aft = }

Mean actual sheer forward = }

Mean standard sheer forward = }

Length of enclosed superstructure forward of amidships = } Deficient

» » aft of » = } Sheers.

If limited to maximum allowance of 1 1/2 ins. per 100 ft. ☒Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.Depth to Freeboard Deck = **12.903**Summer freeboard = **3.188**Moulded draught (d) = **9.715**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{48} \text{ inches} = 202 \text{ m/m}$ Addition for Winter North Atlantic Freeboard (if required) = **202 + 140 = 342 m/m**

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta = 30161$

Tons per inch immersion at summer load water line

 $T = 87.28$ Deduction = $\frac{\Delta}{40 T}$ inches**= 8.64"****= 219 m/m**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{798 + 68}{1.36} = 1.478$ Depth Correction **374** ✓Deduction for superstructures **268** ✓Sheer correction **292** ✓Round of Beam correction **1** ✓Correction for Thickness of Deck amidships **✓**Other corrections, scantlings, etc. **✓****667 268 + 399**Summer Freeboard = **3188**

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc	421
Fresh Water Line	219
Tropical Line	202
Winter Line below	202
Winter North Atlantic Line	342

Tropical Fresh Water Freeboard **2767** ✓Fresh Water **2969** ✓Tropical **2986** ✓Winter **3390** ✓Winter North Atlantic **3330** ✓

"ATLANTIC QUEEN"

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Displacement in tons in salt water and Tons per inch:

9.658 ✓	At 75 % of moulded depth	29970 tons.	87.20 tons per inch.
10.946 ✓	" 85 % " " "	34440 "	89.17 " " "
12.232	" 95 % " " "	39090 "	90.95 " " "

Moulded Draught = 9.713 ✓	10.946	34440	89.17 ✓
9.658 ✓	9.658	29970	87.20
.055 ✓	1.288	4470 ✓	1.97 ✓

.055 ✓	× 4470	= 191 ✓
1.288		29970 ✓
		30161 ✓

.055	× 1.97	= .084 ✓
1.288		87.20 ✓
		87.284 ✓

Trade of ship General.

Names of sister ships None.

Builder's name and yard number A-B. Götaverken, Gothenburg, Yard No. 628.

Owners Rederi A-B. Monacus (B. Lenberg, Mgr.), Kungsbacka.

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