

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name FAMAGUSTA	Official Number 181521	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage 454	Date of Build 1943	Port of Survey.....
Moulded Dimensions: Length 175.0 Breadth 30.0 Depth 8.83 <i>to centre rudder stock</i>					Date of Survey 8.1.47
Moulded displacement at moulded draught = 85 per cent. of moulded depth.....tons					Surveyor's Signature.....
Coefficient of fineness for use with Tables 90 (assumed)					Particulars of Classification +A-wrk fbd

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 8.83	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B) 30.0
Stringer plate03	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$ 7.20
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	(11.67 - 8.86) 1.346 = -3.78	Ship's Round of Beam = NIL
Depth for Freeboard (D) = 8.86	If restricted by superstructures YES - NIL	Difference 7.20
		Restricted to
		Correction = $\frac{\text{Diff}^o}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{7.20}{4} \times .4084 = +.74$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
„ overhang					
R.Q.D. enclosed					
„ overhang					
Bridge enclosed					
„ overhang aft					
„ overhang forward					
F'cle enclosed FULL HT ...	23.0	23.00	6.5	✓	23.00
„ overhang HALF HT ...	16.0	16.00	3.0	3.0/6.0	8.00
Trunk aft		64.53	4.0	4.0/6.0	43.02
„ forward					
Tonnage opening aft					
„ „ forward					
Total	39.0	103.53			74.02

Standard Height of Superstructure **6.0**

„ „ R.Q.D.

Deduction for complete superstructure **23.5**

Percentage covered $\frac{S}{L} =$ **22.29**

„ „ $\frac{S_1}{L} =$ **59.16**

„ „ $\frac{E}{L} =$ **42.29**

Percentage from Table, Line A. **25.44**
(corrected for absence of forecastle (if required))

Percentage from Table, Line B.
(corrected for absence of forecastle (if required))

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

Deduction = **23.5 × .2544 = -5.98**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	27.50	1	27.50	4'-0 1/8"	27.50	1	27.50
1/2 L from A.P.	12.24	4	48.96	2'-1 1/8"	12.24	4	48.96
3/8 L „	3.025	2	6.05	-	3.025	2	6.05
Amidships	-	4	-	-	-	4	-
3/8 L from F.P.	6.05	2	12.10	-	-	2	-
1/2 L „	24.48	4	97.92	-	-	4	-
F.P.	55.00	1	55.00	0'-6 5/8"	6.625	1	6.62
Total			247.53				89.13

Mean actual sheer aft = **Excess**
Mean standard sheer aft =

Mean actual sheer forward = **Deficient**
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
L
„ „ aft of „ = **Nil**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{158.40}{18} (.75 - .1114) = +5.62$
If limited on account of midship superstructure. ✓ 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 = **8.86** Ft.
Summer freeboard = **2.35**
Moulded draught (d) = **6.51**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **1.627 = 1 3/4**

Addition for Winter North Atlantic Freeboard (if required) = **NOT ASSIGNED**

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ =
Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\Delta}{40 T}$ inches

=

$\frac{d}{A} = 1 3/4$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{68 + .90}{1.36} = \frac{1.78}{1.36}$

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc. correspond to approved summer moulded draught of 6'-6" (6'-6 1/8" actual)

Summer Freeboard = **28.25**

19.05

24.93

8.1.47

3.32

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

Tropical Fresh Water Line above Centre of Disc **3 1/2"**
Fresh Water Line „ „ **1 3/4"**
Tropical Line „ „ **1 3/4"**
Winter Line below „ „ **1 3/4"**
Winter North Atlantic Line „ „ **NOT ASSIGNED**

Tropical Fresh Water Freeboard **2'-4 1/4"**
Fresh Water „ „ **2'-0 3/4"**
Tropical „ „ **2'-2 1/2"**
Winter „ „ **2'-2 1/2"**
Winter North Atlantic „ „ **NOT ASSIGNED**

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.

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £.....



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Foundation