

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

GRK. REPORT N° 20817

Ship's Name FELONDO GLENPARK	Official Number 166989	Nationality and Port of Registry GREEK BRITISH Phoen GREENOCK	Gross Tonnage 5136 APPROX 5200	Date of Build 1939	Port of Survey GREENOCK
Moulded Dimensions: Length 425 ✓ Breadth 56 ✓ Depth 27.75 To UPPER DK ✓ 27.75 To 2 ND DK ✓					Date of Survey WHILE BUILDING
Moulded displacement at moulded draught = 85 per cent. of moulded depth 11972 tons					Surveyor's Signature Kenneth Inglis
Coefficient of fineness for use with Tables .746 ✓					Particulars of Classification +100A.I. WITH FREEBOARD (CONTEMPLATED)

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 27.75 ✓	(a) Where D is greater than Table depth (D - Table depth) R =	Moulded Breadth (B) 56.0
Stringer plate ... 42 ✓	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{56 \times 12}{50} = 13.44$
2 ND Wood Apr. O. Frame 18	(28.33 - 27.80) 3 = -1.65	Ship's Round of Beam = 14
Sheathing on exposed deck	(28.33 - 27.80) 3 = -1.65	Difference Excess = .56
$T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Restricted to
Depth for Freeboard (D) = 27.80 ✓		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.56}{4} \times (1 - .9939) = .0061$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	42.14	42.14	9'-0"		42.14
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...	377.70	377.70	9'-0"		377.70
„ overhang aft ...					
„ overhang forward ...					
F'cle enclosed ...					
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...	5.16	2.58	9'-0"		2.58
„ „ forward ...					
Total ...	425.00	422.42			422.42

Standard Height of Superstructure	7.50
„ „ R.Q.D.	-
Deduction for complete superstructure	42.00
Percentage covered $\frac{S}{L} =$	100.00
„ „ $\frac{S_1}{L} =$	99.39
„ „ $\frac{E}{L} =$	99.39
Percentage from Table, Line A. (corrected for absence of forecastle (if required))	
Percentage from Table, Line B. (corrected for absence of forecastle (if required))	99.25
Interpolation for bridge less than .2L (if required)	
Deduction =	42.00 x .9925 = 41.69

SHEER CORRECTION.

Actual Ineen Dk. Height 9'-0"
Standard " " " 7'-6"
1'-6"

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	52.50	1	52.50	54	72.00	1	72.00
1/2 L from A.P. ...	23.36	4	93.44	24	32.04	4	128.16
3/4 L „ ...	5.78	2	11.56	6	7.92	2	15.84
Amidships ...	-	4	-	0	-	4	-
3/4 L from F.P. ...	11.56	2	23.12	12	13.86	2	27.72
1/2 L „ ...	46.72	4	186.88	48	56.07	4	224.28
F.P. ...	105.00	1	105.00	108	126.00	1	126.00
Total ...			472.50	+18"			594.00

Mean actual sheer aft = **Deficient Excess**
Mean standard sheer aftMean actual sheer forward = **Deficient Excess**
Mean standard sheer forwardLength of enclosed superstructure forward of amidships = } C.S.S.
„ „ aft of „ = }Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{121.50}{18} \left(.75 - \frac{50}{25} \right) = -1.687$
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.Ft.
Depth to Freeboard Deck = **27.80**
Summer freeboard = **3.21**
Moulded draught (d) = **24.59**Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **6.15 = 6 1/4"**
Addition for Winter North Atlantic Freeboard (if required) = **6 1/4"**

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 25'-0" - 12230$
 $\Delta = 25'-0" - 12802$
Tons per inch immersion at summer load water line
 $T = 24'-0" - 47.33$
 $T = 25'-0" - 47.67$
Deduction = $\frac{\Delta}{40T}$ inches = **6.65**
= **6 3/4"**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction ...	-	1.59
Deduction for superstructures ...	-	41.69
Sheer correction ...	-	1.69
Round of Beam correction ...	-	-
Correction for Thickness of Deck amidships ...	-	24
Other corrections, scantlings, etc. ...	-	-
Summer Freeboard =	0.24	44.97

Summer Freeboard = **38.23 44**

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

Tropical Fresh Water Line above Centre of Disc	13"
Fresh Water Line	6 3/4"
Tropical Line	6 1/4"
Winter Line below	6 1/4"
Winter North Atlantic Line	✓

Tropical Fresh Water Freeboard	3'-2 1/2"
Fresh Water	2'-1 1/2"
Tropical	2'-7 3/4"
Winter	2'-8 1/4"
Winter North Atlantic	3'-8 3/4"

-3 OCT 1939

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 INTERNATIONAL

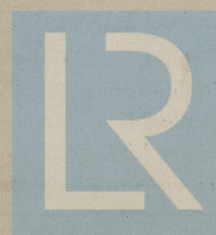
Names of sister ships S.S. BROOMPARK, LITHGOWS LTD N° 921 & GREENOCK FREEBOARD. REPORT N° 20806

Builder's name and yard number LITHGOWS LTD YARD N° 922

Owners DENHOLM LINE STEAMERS LTD (J & J DENHOLM MGRS)

Approx Fee £ 16 : 0 : 0

To BE RENDERED WITH FIRST ENTRY.



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Foundation

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