

Ambrose Fleming 36483
Fulham V 36030

Lloyd's Register of Shipping.

Index. No. 36607
(For London Office only).

20468.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "SIR LEONARD PEARCE"	Official Number 168216	Nationality and Port of Registry BRITISH LONDON.	Gross Tonnage APPROX. 1580 1555	Date of Build 1941.	Port of Survey Burntisland (LEITH.)
Moulded Dimensions: Length 242'-9" Breadth 39'-4" Depth 22'-6" UPPER DECK. R. Q. DECK.					Date of Survey while building.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 3211 @ 15.725 tons					Surveyor's Signature Robert Wood
Coefficient of fineness for use with Tables .7486					Particulars of Classification 100 A.1. with freeboard. (contemplated.)

Depth for Freeboard (D). Moulded depth ... 18.50 Stringer plate04 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$.04 Depth for Freeboard (D) = 18.54	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R = (18.54 - 16.18) \times 1.867 = +4.41"$ (b) Where D is less than Table depth (if allowed) (Table depth - D) R = 1.36 If restricted by superstructures ✓	Round of Beam correction. Moulded Breadth (B) 39'-4" Standard Round of Beam = $\frac{B \times 12}{50} =$ 9 3/8 Ship's Round of Beam = 9 1/2 Difference Excess .13 Restricted to ✓ Correction = $\frac{\text{Diff}^2}{4} \times (1 - \frac{S_1}{L}) = \frac{.13^2}{4} \times .229 = -.01"$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Peep enclosed ...	✓				
" overhang ...	✓				
R.Q.D. enclosed ...	148.58	148.58	3'-11 3/8"	3.948/3.951	148.45
" overhang ...	✓				
Bridge enclosed ...	15.75	15.75	7'-0"	✓	15.75
" overhang aft ...	✓				
" overhang forward ...	✓				
F'cle enclosed ...	22.66	22.66	6'-0"	✓	22.66
" overhang ...	✓				
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	186.99	186.99			186.86

Standard Height of Superstructure **BRIDGE 6'-0" 4'-0"**
 " " R.Q.D. **3.951 3'-11 3/8"**
 Deduction for complete superstructure **30.27"**
 Percentage covered $\frac{S}{L} =$ **77.03**
 " " $\frac{S_1}{L} =$ **77.03**
 " " $\frac{E}{L} =$ **76.98**
 Percentage from Table, Line A. **✓**
 (corrected for absence of forecastle (if required))
 Percentage from Table, Line B. **71.59**
 (corrected for absence of forecastle (if required)) **✓**
 Interpolation for bridge less than 2L (if required) **✓**
 Deduction = **30.27 x .7159 = -21.67"**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	34.27	1	34.27	12 1/4	12.25	1	12.25
1/2 L from A.P. ...	15.25	4	61.00	5 3/4	5.75	4	23.00
2/3 L " ...	3.77	2	7.54	1 1/2	1.50	2	3.00
Amidships ...	-	4	-	-	-	4	-
2/3 L from F.P. ...	7.54	2	15.08	4 1/2	4.50	2	9.00
1/2 L " ...	30.50	4	122.00	17 3/4	17.75	4	71.00
F.P. ...	68.55	1	68.55	39	39.00	1	39.00
Total ...			308.44				157.25

Mean actual sheer aft = **Deficient**
 Mean standard sheer aft
 Mean actual sheer forward = **Deficient.**
 Mean standard sheer forward
 Length of enclosed superstructure forward of amidships = **Deficient**
 " " aft of " = **Excess.**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{151.19}{18} (.75 - .3851) = +3.06"$
 If limited on account of midship superstructure. **3649** 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 = **22.54**
 Summer freeboard = **5.92**
 Moulded draught (d) = **16.62**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **4.15 - 4 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
 $\Delta = 3444 @ 16'-9"$

Tons per inch immersion at summer load water line
 $T = 19.35$

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

= **4.45**
 = **4 1/2"**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **.749 + .68 = 1.429 / 1.36**

Depth Correction ... **4.41**

Deduction for superstructures ... **-21.67**

Sheer correction ... **3.08**

Round of Beam correction ... **.01**

Correction for Thickness of Deck amidships ... **47.37**

Other corrections, scantlings, etc. **4.80**

with a summer moulded draught **60.27**

95.16 - 7 1/2"

Summer Freeboard = **71.00**

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

Tropical Fresh Water Line above Centre of Disc ... **8 3/4"**
 Fresh Water Line " " ... **4 1/2"**
 Tropical Line " " ... **4 1/4"**
 Winter Line below " " ... **4 1/4"**
 Winter North Atlantic Line " " ... **6 1/4"**

Tropical Fresh Water Freeboard ... **51'-11"**
 Fresh Water " " ... **51'-2 1/4"**
 Tropical " " ... **51'-6 1/2"**
 Winter " " ... **51'-6 3/4"**
 Winter North Atlantic " " ... **51'-3 1/4"**

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 *Collier - River Thames & North East Coast Ports.*
Names of sister ships *"AMBROSE FLEMING"* *[Signature]*
Builder's name and yard number *The Burntisland S. B. Co. L^{td} Yard N^o 251.*
Owners *London Power Co. L^{td}.*
Fee £ *(To be charged with 1st Entry.)*



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