

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

 Index No. **37006.**
 (For London Office only).

Ship's Name SOUTHWICK YARD NOS 1, 2, 83	Official Number ✓	Nationality and Port of Registry ✓	Gross Tonnage ✓	Date of Build ✓	Port of Survey Sunderland.
Moulded Dimensions: Length 424.875 ✓ Breadth 56.0 ✓ Depth 37.67 ✓ 2ND OK 28.67 TO & OF RUDDER STOCK $\frac{0.32 \cdot 02}{24 \cdot 36} = \frac{17120}{12565}$ tons					Date of Survey
Moulded displacement at moulded draught = 85 per cent. of moulded depth Coefficient of fineness for use with Tables .787 (32.02) .759 (24.36)					Surveyor's Signature <i>[Signature]</i> Particulars of Classification +100 A1. WITH FREEBOARD

Depth for Freeboard (D).

Moulded depth **37.67**

Stringer plate **0.05**

Sheathing on exposed deck ✓
 $T \left(\frac{L-S}{L} \right) =$

Depth for Freeboard (D) = **37.72**

Depth correction.

(a) Where D is greater than Table depth
 $(D - \text{Table depth}) R =$
 $(37.72 - 28.32) 3 = +28.20$
 9.40

(b) Where D is less than Table depth (if allowed)
 (Table depth - D) R =

If restricted by superstructures

Round of Beam correction.

Moulded Breadth (B) **56.0**

Standard Round of Beam = $\frac{B \times 12}{50} =$ **13.44"**

Ship's Round of Beam = **14"**

Difference **EXCESS .56"**

Restricted to

Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.56}{4} \times .9160 = -.13"$

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	35.67	35.67	6.75	6.75	32.11
" overhang			NIL.		
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	35.67	35.67			32.11

Standard Height of Superstructure **7.5**

" " R.Q.D.

Deduction for complete superstructure **42.00**

Percentage covered $\frac{S}{L} =$ **8.40%**

" " $\frac{S_1}{L} =$ **8.40%**

" " $\frac{E}{L} =$ **7.56%**

Percentage from Table, Line A. **3.78%**
 (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 = **42.00 × .0378 = -1.59"**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	52.49	1	52.49	24	24.0	1	24.00
$\frac{1}{4}$ L from A.P.	23.36	4	93.44	-	-	4	-
$\frac{2}{4}$ L "	5.77	2	11.54	-	-	2	-
Amidships	-	4	-	-	-	4	-
$\frac{3}{4}$ L from F.P.	11.55	2	23.10	-	-	2	-
$\frac{1}{4}$ L "	46.71	4	186.84	6.38	6.38	4	25.52
F.P.	104.97	1	104.97	81.0	81.00	1	81.00
Total			472.38				130.52

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{341.86}{18} \left(.75 - .042 \right) = +13.45"$

If limited on account of midship superstructure. ✓

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. ✓

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **37.72** Ft.

Summer freeboard = **11.09**

Moulded draught (d) = **26.63**

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **6.66 = 6 $\frac{3}{4}$ "**

Addition for Winter North Atlantic Freeboard (if required) = ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta =$

Tons per inch immersion at summer load water line

T =

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

7 $\frac{1}{4}$ "

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.787 \cdot 68}{1.36} = \frac{1.467}{1.36}$

	+	-
Depth Correction	28.20	-
Deduction for superstructures	-	1.59
Sheer correction	13.45	-
Round of Beam correction	-	.13
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc. TO CORRESPOND TO A SUMMER MOULDED DRAUGHT OF 26-7 $\frac{1}{2}$ " (26-9" EXTREME)	5.85	-
	47.50	1.72
Summer Freeboard =	133.00	

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

Tropical Fresh Water Line above Centre of Disc ... **14"**

Fresh Water Line " " ... **7 $\frac{1}{4}$ "**

Tropical Line " " ... **6 $\frac{3}{4}$ "**

Winter Line below " " ... **6 $\frac{3}{4}$ "**

Winter North Atlantic Line " " ... ✓

Tropical Fresh Water Freeboard ... **9 $\frac{1}{2}$ "**

Fresh Water " " ... **10-5 $\frac{3}{4}$ "**

Tropical " " ... **10-6 $\frac{1}{4}$ "**

Winter " " ... **11-7 $\frac{1}{4}$ "**

Winter North Atlantic " " ... ✓

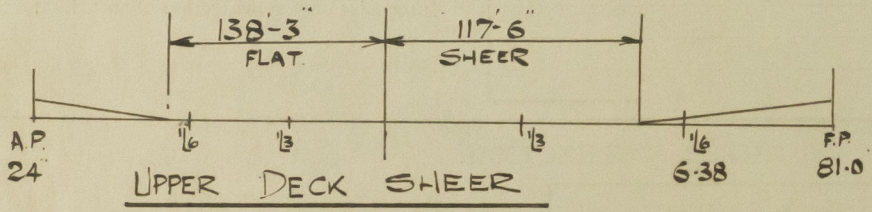
Southwick yard

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.

Partial Flush Deck Allowance.

4.249	10.00
<u>2.124</u>	<u>7.56</u>
6.373	2.44

• 244 × 6.373 = 1.55"



Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £

