

PROSPEROUS
No. 37058

Index. No. 37174
(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER, (TUG).)

Ship's Name "SAUCY"	Official Number ✓	Nationality and Port of Registry BRITISH. ✓	Gross Tonnage 597.	Date of Build 1943	Port of Survey Hull.
Moulded Dimensions: Length 142'-6" Breadth 33'-0" Depth 16'-0"					Date of Survey while building
Moulded displacement at moulded draught = 85 per cent. of moulded depth 1010 tons 8.5 T.P.I.					Surveyor's Signature J. Macleod
Coefficient of fineness for use with Tables .68 (ACTUAL .553)					Particulars of Classification + 100 A-1. "FOR TOWING" Contemplated

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth 16'-0"	(a) Where D is greater than Table depth (D-Table depth) R = (16.03-9.50) 1.096 = +7.16	Moulded Breadth (B) 33'-0"
Stringer plate -03	6.53	Standard Round of Beam = $\frac{B \times 12}{50}$ = 7.92
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = ✓	Ship's Round of Beam = 9"
Depth for Freeboard (D) = 16'-03"	If restricted by superstructures ✓	Difference 1.08
		Restricted to ✓
		Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right)$ = $\frac{1.08}{4} \times .6327 = -.17"$

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	52.33	52.33	7'-0"	✓	52.33
" overhang	" "				
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	52.33	52.33			52.33

Standard Height of Superstructure **6.00**

" " R.Q.D. ✓

Deduction for complete superstructure **20.25**

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

" " $\frac{S_1}{L} =$

" " $\frac{E}{L} =$ } **36.73**

Percentage from Table, Line A. **20.72**
(corrected for absence of fore-castle (if required))

Percentage from Table, Line B. ✓
(corrected for absence of fore-castle (if required)) ✓

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

Deduction = **20.25 x .2072 = - 4.20"**

SHEER CORRECTION.

Sheers measured from a line parallel to the designed trim wateline.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	24.25	1	24.25	29.50	29.50	1	29.50
1/4 L from A.P. ...	10.79	4	43.16	12.33	12.33	4	49.32
3/4 L "	2.67	2	5.34	2.92	2.92	2	5.84
Amidships	-	4	-	SEE SKETCH	-	4	-
3/4 L from F.P. ...	5.34	2	10.68	8.08	8.08	2	16.16
1/4 L "	21.58	4	86.32	29.67	29.67	4	118.68
F.P.	48.50	1	48.50	73.75	73.75	1	73.75
Total			218.25				293.25

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

" " aft of " =

EXCESS

NIL.

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{75}{18} (.75 - .1836) = -2.36"$

If limited on account of midship superstructure. **Yes, NIL.**

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.	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 1078$ Tons per inch immersion at summer load water line $T = 8.69$ Deduction = $\frac{\Delta}{40T}$ inches 3.1=3"	TABULAR FREEBOARD corrected for Fresh Deck (if required) Correction for coefficient NIL.	14.53
Depth to Freeboard Deck = 16.03			
Summer freeboard = 1.87			
Moulded draught (d) = 14.16			
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 3.54 = 3 1/2			
Addition for Winter North Atlantic Freeboard (if required) = 2"			
	MLD DRAFT. EXT. DISP. T.P.I. 14'-4 1/2" 1100 8.75 13'-4 1/2" 996 8.45 12'-4 1/2" 892 8.20		
		Depth Correction 7.16	
		Deduction for superstructures - 4.20	
		Sheer correction -	
		Round of Beam correction17	
		Correction for Thickness of Deck amidships -	
		Other corrections, scuttles, etc. to correspond to position of lowest side scuttle. 5.18	
		12.34	4.37
		Summer Freeboard = 22.50	

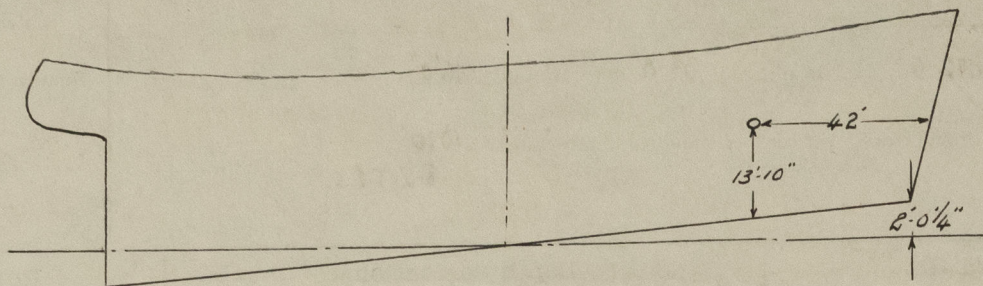
SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~WATER~~, Steel, Deck:

Tropical Fresh Water Line above Centre of Disc ...	3"	Tropical Fresh Water Freeboard ...	1'- 10 1/2"
Fresh Water Line " " ...	3"	Fresh Water " " ...	1'- 7 1/2"
Tropical Line " " ...	NIL	Tropical " " ...	1'- 7 1/2"
Winter Line below " " ...	NIL	Winter " " ...	1'- 10 1/2" (limited)
Winter North Atlantic Line " " ...	2"	Winter North Atlantic " " ...	1'- 10 1/2"
			2'- 0 1/2"

18 FEB 1943

"SAUCY"

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.



Draught Restriction:

$$\begin{array}{rcl}
 L = 142.5' & & \\
 \frac{L}{2} = 71.25 & \frac{29.25}{71.25} \times 2.02 = & .83 \\
 \frac{42.00}{29.25} & & + 13.83 \\
 & & \hline
 & & 14.66 \\
 & & - .50 \\
 & & \hline
 & & 14.16' \text{ Draught.}
 \end{array}$$

Trade of ship FOR TOWING SERVICES.

Names of sister ships "SAUCY" - "HORSA" - "PROSPEROUS"

Builder's name and yard number COCHRANE & SONS LTD. YARD NO 1257.

Owners THE ADMIRALTY.

Fee £ TO BE CHARGED WITH FIRST ENTRY.



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