

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. 36765
(For London Office only).

26 FEB 1942

Jhd 4373

Ship's Name FRESHBROOK (Lytham S.B. 56th) Yd No 868	Official Number	Nationality and Port of Registry	Gross Tonnage <i>Estimated 270</i>	Date of Build 1942	Port of Survey Lytham (Building)
Moulded Dimensions: Length 120'-0" B.R. Breadth 24'-6" Depth 12'-6"					Date of Survey 20/2/42
Moulded displacement at moulded draught = 85 per cent. of moulded depth 639.5 tons					Surveyor's Signature Hubb Edwards
Coefficient of fineness for use with Tables .717					Particulars of Classification +100 A1 "For Government Service"

Depth for Freeboard (D). Moulded depth ... 12'-6" Stringer plate93" Sheathing on exposed deck <i>Composition</i> $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 12.53	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(12.53 - 8.00) \times .923 = +4.18$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ If restricted by superstructures <input checked="" type="checkbox"/>	Round of Beam correction. Moulded Breadth (B) 24'-6" Standard Round of Beam = $\frac{B \times 12}{50} = 5.88$ Ship's Round of Beam = 6 Difference .12 Restricted to Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.12}{4} \times .8542 = .03$
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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 <i>House</i> ...			7'-0"		
" overhang aft ...	<i>None</i>				
" overhang forward ...	<i>None</i>				
Enclosed ...	17'-6"	17.50	6'-6"	-	17.50
" overhang ...	<i>None</i>				
Trunk aft ...	✓				
" forward ...	✓				
Tonnage opening aft ...	✓				
" forward ...	✓				
Total ...	17.50	17.50			17.50

Standard Height of Superstructure **7'-0"** (~~6'-0"~~ *corrected for absence of forecastle*)
 " " R.Q.D. **✓**
 Deduction for complete superstructure **18**
 Percentage covered $\frac{S}{L} =$
 $\frac{S_1}{L} =$ } **14.58**
 $\frac{E}{L} =$
 Percentage from Table, Line A. **7.29**
 (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 = **18 x .0729 = -1.31**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	22.00	1		22.00	1'-6"	18.0	1		18
$\frac{1}{2}$ L from A.P. ...	9.79	4		39.16	9"	9.0	4		36
$\frac{3}{4}$ L " ...	2.42	2		4.84	3½"	3.5	2		7
Amidships ...	-	4		-	0	-	4		-
$\frac{3}{4}$ L from F.P. ...	4.84	2		9.68	5"	5.0	2		10
$\frac{1}{2}$ L " ...	19.58	4		78.32	1'-3"	15.0	4		60
F.P. ...	44.00	1		44.00	3'-0"	36.0	1		36
Total ...				198.00					167

Mean actual sheer aft =
 Mean standard sheer aft = } *Definitive*
 Mean actual sheer forward =
 Mean standard sheer forward = }
 Length of enclosed superstructure forward of amidships =
 " " aft of " = } *Nil*
 Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{31}{18} (.75 - .0729) = +1.17$
 If limited on account of midship superstructure. **✓**
 If limited to maximum allowance of 1½ ins. per 100 ft. **✓**

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 12.53 Summer freeboard = 1.79 Moulded draught (d) = 10.74 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = Addition for Winter North Atlantic Freeboard (if required) =	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 595 \text{ Tons}$ Tons per inch immersion at summer load water line $T = 5.87$ Deduction = $\frac{\Delta}{40 T}$ inches = 2.53 = 2½"	TABULAR FREEBOARD corrected for Fresh Deck (if required) Correction for coefficient $\frac{.717 + .68}{1.36} = \frac{1.397}{1.36}$ <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction ...</td> <td>4.18</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures ...</td> <td>-</td> <td>1.31</td> </tr> <tr> <td>Sheer correction ...</td> <td>1.17</td> <td>-</td> </tr> <tr> <td>Round of Beam correction ...</td> <td>-</td> <td>.03</td> </tr> <tr> <td>Correction for Thickness of Deck amidships ...</td> <td>-</td> <td>-</td> </tr> <tr> <td>Other corrections, scantlings, etc. <i>to correspond to position of lower side-scantling</i> ...</td> <td>5.17</td> <td>-</td> </tr> <tr> <td></td> <td>10.52</td> <td>1.34</td> </tr> </table> Summer Freeboard = 21.50		+	-	Depth Correction ...	4.18	-	Deduction for superstructures ...	-	1.31	Sheer correction ...	1.17	-	Round of Beam correction ...	-	.03	Correction for Thickness of Deck amidships ...	-	-	Other corrections, scantlings, etc. <i>to correspond to position of lower side-scantling</i> ...	5.17	-		10.52	1.34
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~ Steel, Deck:

Tropical Fresh Water Line above Centre of Disc <i>Not assigned</i>	Tropical Fresh Water Freeboard ...	1'-9½"
Fresh Water Line " " <i>2½"</i>	Fresh Water " " ...	1'-7"
Tropical Line " " <i>Not assigned</i>	Tropical " " ...	1'-9½"
Winter Line below " " <i>Nil</i>	Winter " " ...	-
Winter North Atlantic Line " " <i>Not assigned</i>	Winter North Atlantic " " ...	-

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

Ryther & B. & Co's 868

Owners

Admiralty

Fee £

With 2.8. fees



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Foundation