

Nottingham 36631.

Lloyd's Register of Shipping.

27 MAY 1941

Index. No. 36127
(For London Office only)

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "GLOUCESTER"	Official Number	Nationality and Port of Registry British London	Gross Tonnage approx. 8500	Date of Build 1941	Port of Survey Glasgow
Moulded Dimensions: Length 450.77' Breadth 60.00' Depth 39.52' (actual) (Centre of under keel)					Date of Survey While building (May 1941)
Moulded displacement at moulded draught = 85 per cent. of moulded depth 19015 tons					Surveyor's Signature A.W. Paterson
Coefficient of fineness for use with Tables .733					Particulars of Classification +100 A1 with freeboard (Contemp.)

Depth for Freeboard (D). Moulded depth ... 39.52' Stringer plate06' Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓ Depth for Freeboard (D) = 39.58'	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(39.58 - 30.05) 3 = +28.59''$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ If restricted by superstructures	Round of Beam correction. Moulded Breadth (B) 60' Standard Round of Beam = $\frac{B \times 12}{50} =$ 14.4'' Ship's Round of Beam = 14.5'' Difference .10'' Restricted to ✓ Correction = $\frac{\text{Diff}^*}{4} \times (1 - \frac{S_1}{L}) =$ $\frac{.10}{4} \times .9247 = -.022''$
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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 ...	✓					
.. overhang aft ...	✓					
.. overhang forward ...	✓					
Forecastle enclosed ...	33.96	33.96	7'6.6"	6.0/7.5	17.17	
.. overhang ...	✓					
Trunk aft ...	✓					
.. forward ...	✓					
Tonnage opening aft ...	✓					
.. forward ...	✓					
Total ...	33.96	33.96			27.17	

Standard Height of Superstructure	7.5'
.. R.Q.D.	41.00''
Deduction for complete superstructure	
Percentage covered $\frac{S}{L} =$	7.53
.. $\frac{S_1}{L} =$	7.53
.. $\frac{E}{L} =$	6.03
Percentage from Table, Line A.	3.01
(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 = $41.00 \times .0301 =$	1.26

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	55.08	1		55.08	62.25	61.25	1		61.25	
$\frac{1}{2}L$ from A.P. ...	14.51	4		98.04	24.50	24.50	4		98.00	
$\frac{2}{3}L$..	6.06	2		12.12	6.00	6.00	2		12.00	
Amidships ...	-	4		-	-	-	4		-	
$\frac{2}{3}L$ from F.P. ...	12.12	2		24.24	14.25	14.25	2		28.50	
$\frac{1}{2}L$..	49.02	4		196.08	52.00	52.00	4		208.00	
F.P. ...	110.15	1		110.15	116.25	116.25	1		116.25	
Total ...				495.71					515.00	

Mean actual sheer aft	Excess
Mean standard sheer aft	
Mean actual sheer forward	Excess
Mean standard sheer forward	
Length of enclosed superstructure forward of amidships	Nil
.. aft of ..	Nil

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{.2L} \right) =$ $\frac{22.29}{18} \left(\frac{.75 - .0376}{.2} \right) = -1.16''$
 If limited on account of midship superstructure. **Yes, nil.** 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 = 39.58' Summer freeboard = 12.21' Moulded draught (d) = 27.29' Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.82' = 63 3/4" Addition for Winter North Atlantic Freeboard (if required) = ✓	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ 15094 Tons per inch immersion at summer load water line $T =$ 52.69 Deduction = $\frac{\Delta}{40T}$ inches = 7.16' = 71 3/4" EXT. DRAUGHT 26' - 27' - 28' -	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $.733 + .68 = 1.413$ $\frac{1.413}{1.36} = 1.04$ Depth Correction ... 18.54' Deduction for superstructures ... 1.26' Sheer correction ... 0.02' Round of Beam correction ... 0.02' Correction for Thickness of Deck amidships ... 26.67' Other corrections, scantlings, etc. to correct draught to 27-3 1/4' EXT. DISPL. 14190 - 14820 - 15480 - TONS PER INCH. 52.2 - 52.55 - 52.9 - Summer Freeboard = 147.50'
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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 ...	14"	355 mm
Fresh Water Line ..	7 1/4"	184 mm
Tropical Line ..	6 3/4"	171 mm
Winter Line below ..	6 3/4"	171 mm
Winter North Atlantic Line ..	✓	
Tropical Fresh Water Freeboard ...	11' - 3 1/2"	3746 mm
Fresh Water ..	11' - 1 1/2"	3391 mm
Tropical ..	11' - 8 1/4"	3562 mm
Winter ..	11' - 8 3/4"	3575 mm
Winter North Atlantic ..	12' - 10 1/4"	3917 mm

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 *Meat Carrier*

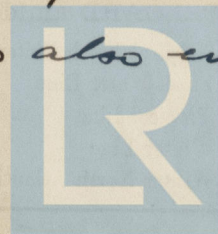
Names of sister ships_____✓

Builder's name and yard number. *Alexander Stephen & Sons Ltd.* No. 575

Owners *New Zealand Shipping Co. Ltd*

Fee £ 19 : 0 : 0

Approved Midship Section & Profile plans are forwarded for reference. Freeboard request form also enclosed.



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