

Louvastar 36127.

Lloyd's Register of Shipping.

Index No. 36631
(For London Office only).

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name NOTTINGHAM	Official Number 168227	Nationality and Port of Registry British London	Gross Tonnage 8500 <i>6476 actually assigned to this vessel.</i>	Date of Build 1941	Port of Survey Glasgow
Moulded Dimensions: Length 450.77 Breadth 60.00 Depth 39.56 (actual)					Date of Survey while building (Sept. 1941)
Moulded displacement at moulded draught = 85 per cent. of moulded depth 190.5 tons					Surveyor's Signature A.W. Paterson
Coefficient of fineness for use with Tables .733					Particulars of Classification +100 A1 with freeboard (Contempl.)

Depth for Freeboard (D). Moulded depth ... 39.56 Stringer plate06 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓ Depth for Freeboard (D) = 39.62	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(39.62 - 30.85) \times 3 = +18.71"$ (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 Excess .10 Restricted to ✓ Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ $\frac{.10}{4} \times .9242 = -.02"$
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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 ...	✓					
Fore enclosed ...	33.96	33.96	7' 6"	60/7.5	27.17	
" overhang ...	✓					
Trunk aft ...	✓					
" forward ...	✓					
Tonnage opening aft ...	✓					
" " forward ...	✓					
Total ...	33.96	33.96			27.17	

Standard Height of Superstructure	7.5'
" " R.Q.D.	✓
Deduction for complete superstructure	42.00"
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 =	42.00 x 0.0301 = -1.26"

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	55.08	1		55.08	61.75	61.75	1		61.75	
1/4 L from A.P. ...	24.51	4		98.04	24.00	24.00	4		96.00	
1/2 L " ...	6.06	2		12.12	5.50	5.50	2		11.00	
Amidships ...	-	4		-	-	-	4		-	
3/4 L from F.P. ...	12.12	2		24.24	13.75	13.75	2		27.50	
1/4 L " ...	49.02	4		196.08	51.50	51.50	4		206.00	
F.P. ...	110.15	1		110.15	115.75	115.75	1		115.75	
Total ...				495.71					518.00	

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 =	L
" " aft of " =	Nie.

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{22.29}{18} \left(\frac{.75 - .0376}{2 \times 450.77} \right) = -.88"$
 If limited on account of midship superstructure. **Yes, no allowance.** 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 = 39.62 Summer freeboard = 12.31 Moulded draught (d) = 27.31 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.83 - 6 3/4" Addition for Winter North Atlantic Freeboard (if required) =	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ 15120 Tons per inch immersion at summer load water line $T =$ 52.69 Deduction = $\frac{\Delta}{40T}$ inches = 7.17 = 7 1/4" <i>Est. draught</i> 26' = 14190 27' = 14820 28' = 15480	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient 733 + 68 = 1.413 / 1.36 Depth Correction ... 28.71 Deduction for superstructures ... -1.26 Sheer correction ... - Round of Beam correction02 Correction for Thickness of Deck amidships ... - Other corrections, scantlings, etc. 26.80 Summer Freeboard = 147.75
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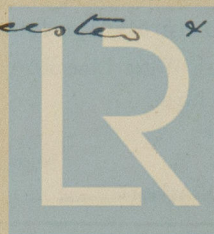
SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Water~~, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc ...	14"	Tropical Fresh Water Freeboard ...	12' - 3 3/4"
Fresh Water Line " " ...	7 1/4"	Fresh Water " " ...	11' - 13/4"
Tropical Line " " ...	6 3/4"	Tropical " " ...	11' - 8 1/2"
Winter Line below " " ...	6 3/4"	Winter " " ...	12' - 10 1/2"
Winter North Atlantic Line " " ...	✓	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 Meat Carrier
Names of sister ships "GLOUCESTER" (Gls. freeboard rpt. 63845.)
Builder's name and yard number Alexander Stephens & Sons Ltd., No. 576.
Owners New Zealand Shipping Co. Ltd.
Fee £ 17-0-0

Approved plans are in London Office having been forwarded with F.E. Rpt. on "Gloucester" & not yet returned. Freeboard request form herewith.



Lloyd's Register
Foundation