

Amended

Index No. 35634
(For London Office only.)

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name OMALA	Official Number 5655	Nationality and Port of Registry Netherlands The Hague	Gross Tonnage	Date of Build 1938	Port of Survey
Moulded Dimensions: Length 129.52 Breadth 16.53 Depth 9.45					Date of Survey 7-6-47
Moulded displacement at moulded draught = 85 per cent. of moulded depth 13.345 m³ tons					Surveyor's Signature EJ
Coefficient of fineness for use with Tables 776					Particulars of Classification +100 A1 etc

DEPTH FOR FREEBOARD (D). Moulded depth ... 9.450 Stringer plate ... 0.19 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 9.469	DEPTH CORRECTION. (a) Where D is greater than Table depth (D - Table depth) R = 8.33(9.469 - 8.635) 30 = + 208 mm (b) Where D is less than Table depth (if allowed) (Table depth - D) R = 334 If restricted by superstructures	ROUND OF BEAM CORRECTION. Moulded Breadth (B) 16.53 Standard Round of Beam = $\frac{B \times 12}{50} =$ 331 Ship's Round of Beam = 343 Difference + 12 Restricted to Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{12 \times .58}{4} =$ -2 mm
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DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed <i>equin</i> ...	27.220	27.220	2290	✓	27.220
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed <i>equin</i> ...	12.450	12.450	2290	✓	12.450
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	14.730	14.730	2290	✓	14.730
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	54.400	54.400			54.400

Standard Height of Superstructure 2290
" " R.Q.D. ...
Deduction for complete superstructure 1067
Percentage covered $\frac{S}{L} =$
" " $\frac{S_1}{L} =$ 42.00
" " $\frac{E}{L} =$
Percentage from Table, Line A. Tanker 33.00
(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 = 1067 x .33 = - 352 mm

SHEER CORRECTION.							
Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S
A.P. ...	1333	1	1333	1360	1360	1	1360
$\frac{1}{8}$ L from A.P. ...	592	4	2368	603	603	4	2412
$\frac{2}{8}$ L " ...	148	2	296	156	156	2	312
Amidships ...	-	4	-	-	-	4	-
$\frac{3}{8}$ L from F.P. ...	296	2	592	298	298	2	596
$\frac{1}{8}$ L " ...	1184	4	4736	1197	1197	4	4788
F.P. ...	2666	1	2666	2740	2740	1	2740
Total ...			11991				12208

Mean actual sheer aft	} Excess
Mean standard sheer aft	
Mean actual sheer forward	} Tanker
Mean standard sheer forward	
Length of enclosed superstructure forward of amidships = $\frac{\text{L}}{\text{L}}$	
" " aft of " =	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{217}{18} (.75 - .21) =$ **-7 mm**
If limited on account of midship superstructure. **54** 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 = 9.469 Ft. Summer freeboard = 1.710 Moulded draught (d) = 7.759 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{48}$ inches = 162 mm - 16 cm Addition for Winter North Atlantic Freeboard (if required) = 162 + 106 = 268 mm - 27 cm	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ 12982 Tons per inch immersion at summer load water line T = 48 Deduction = $\frac{\Delta}{40 T}$ inches = 6.76 172 mm 17 cm	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.776 + .68}{1.36} = \frac{1.456}{1.36}$ Depth Correction ... 208 Deduction for superstructures ... 352 Sheer correction ... 7 Round of Beam correction ... 2 Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... 208 361 - 153 Summer Freeboard = 1711
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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	33 cm	Tropical Fresh Water Freeboard	171 cm
Fresh Water Line " "	17 "	Fresh Water " "	138 "
Tropical Line " "	16 "	Tropical " "	155 "
Winter Line below " "	16 "	Winter " "	187 "
Winter North Atlantic Line " "	2.7 "	Winter North Atlantic " "	198 "

11.6.1947