

Timber

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

 Index No. 38233
 (For London Office only).

Ship's Name on Aletta No. 1. EMPIRE CONFERENCE	Official Number 180728	Nationality and Port of Registry BRITISH GLASGOW,	Gross Tonnage 2027	Date of Build 1943	Port of Survey _____
Moulded Dimensions: Length 251.0 Breadth 41.0 Depth 20.91					Date of Survey 29.10.45
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature _____
Coefficient of fineness for use with Tables .825 (assumed)					Particulars of Classification _____

Depth for Freeboard (D). Moulded depth Stringer plate Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = _____	Depth correction. (a) Where D is greater than Table depth (D-Table depth) R = + 8.17 (b) Where D is less than Table depth (if allowed) (Table depth-D) R = _____ If restricted by superstructures	Round of Beam correction. Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = _____ Difference Restricted to Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ Nil
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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					
F'cle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total					

Standard Height of Superstructure _____
 " " R.Q.D. _____
 Deduction for complete superstructure **31.10**
 Percentage covered $\frac{S}{L} =$
 " " $\frac{S_1}{L} =$
 " " $\frac{E}{L} =$ **70.41**
 Percentage from Table, Line A. **Timber 81.75** ✓
 (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 = **31.10 × 81.75 = - 25.43** ✓

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1					1		
$\frac{1}{4}$ L from A.P.		4					4		
$\frac{1}{2}$ L "		2					2		
Amidships		4					4		
$\frac{3}{4}$ L from F.P.		2					2		
$\frac{1}{4}$ L "		4					4		
F.P.		1					1		
Total									

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 " =
 Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) =$ **+4.71** ✓
 If limited on account of midship superstructure.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 24.96 Summer freeboard = 5.96 Moulded draught (d) = 19.00 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 4.75 = 4.75 Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} =$ 6.33 = 6.33	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ Tons per inch immersion at summer load water line $T =$ Deduction = $\frac{\Delta}{40T}$ inches = 5 ✓	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr><td>Depth Correction</td><td>8.17</td><td></td></tr> <tr><td>Deduction for superstructures</td><td></td><td>25.43</td></tr> <tr><td>Sheer correction</td><td>4.71</td><td></td></tr> <tr><td>Round of Beam correction</td><td></td><td></td></tr> <tr><td>Correction for thickness of Deck amidships</td><td>48.00</td><td></td></tr> <tr><td>Other corrections, scantlings, etc.</td><td></td><td></td></tr> <tr><td>Summer Freeboard =</td><td>71.43</td><td></td></tr> </tbody> </table>		+	-	Depth Correction	8.17		Deduction for superstructures		25.43	Sheer correction	4.71		Round of Beam correction			Correction for thickness of Deck amidships	48.00		Other corrections, scantlings, etc.			Summer Freeboard =	71.43	
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-			
Timber	Tropical Fresh Water Line above Centre of Disc ...	15 1/4	Timber Tropical Fresh Water Freeboard ...
	Fresh Water Line " " ...	10 1/2	Fresh Water " " ...
	Tropical Line " " ...	10 1/4	Tropical " " ...
	Winter Line below " " ...	3 3/4	Winter " " ...
	Winter North Atlantic Line " " ...	6 3/4	Winter North Atlantic " " ...
	Summer	5 1/2	