

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received

Index No.

Govt. Copy

Owners C11

Ship's Name Empire GAELIC.	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 321-75' Breadth 54-0' Depth 27-0'					Date of Survey 28-8-56
Freeboard Length Moulded displacement at moulded draught = 85 per cent. of moulded depth tons (excluding bossing) Coefficient of fineness for use with Tables 834					Surveyor's Signature
					Particulars of Classification

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 27-00 Stringer plate 03 Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 27-03	(a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(27-03 - 21-45) 2-475 = 13-81"$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ If restricted by superstructures	Moulded Breadth (B) 54-00 Standard Round of Beam = $\frac{B \times 12}{50} = 12-96$ Ship's Round of Beam = NIL Difference 12-96 Restricted to Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = 12-96 + 3-24 = 16-20$

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					

Flush deck no superstructures

Standard Height of Superstructure
 " " R.Q.D.
 Deduction for complete superstructure
 Percentage covered $\frac{S}{L} =$
 " " $\frac{S_1}{L} =$
 " " $\frac{E}{L} =$
 Percentage from Table, Line A.
 (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 = **NIL**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	42-175	1		42-18	24-0	24-0	1		24-0
$\frac{1}{2}L$ from A.P. ...	18-77	4		75-08	12-0	12-0	4		48-0
$\frac{2}{3}L$ " ...	4-64	2		9-28	-	-	2		-
Amidships ...	0	4		0	0	0	4		0
$\frac{2}{3}L$ from F.P. ...	9-28			18-56	-	-	2		-
$\frac{1}{2}L$ " ...	37-11	4		150-16	-	-	4		-
F.P. ...		1		84-35	32-0	32-0	1		32-0
Total				379-61					104-00

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{275-61}{18} \times .75 = 11-48"$
 If limited on account of midship superstructure.

Mean actual sheer aft =
 Mean standard sheer aft =
 Mean actual sheer forward =
 Mean standard sheer forward =
 Length of enclosed superstructure forward of amidships = **flush deck**
 " " aft of " = **flush deck**

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)																								
Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 27-03 Summer freeboard = 14-85 Moulded draught (d) = 12-18 Keel allowance = Extreme draught = Deduction for Tropical freeboard and addition for = Winter freeboard = $\frac{d}{4}$ inches = 3" Addition for Winter North Atlantic Freeboard (if required) =	Displacement in salt water at summer load water line $\Delta =$ Tons per inch immersion at summer load water line $T =$ Deduction = $\frac{\Delta}{40 T}$ inches = 3"	Correction for coefficient $\frac{834 + 68-584}{136} = 53-69$ <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>13-81</td><td>-</td></tr> <tr><td>Deduction for superstructures</td><td>-</td><td>-</td></tr> <tr><td>Sheer correction</td><td>11-48</td><td>-</td></tr> <tr><td>Round of Beam correction</td><td>3-24</td><td>-</td></tr> <tr><td>Correction for Thickness of Deck amidships</td><td>-</td><td>-</td></tr> <tr><td>Other corrections, scantlings, etc.</td><td>84-95</td><td>-</td></tr> <tr><td>Summer Freeboard</td><td>118-48</td><td>-</td></tr> </tbody> </table>		+	-	Depth Correction	13-81	-	Deduction for superstructures	-	-	Sheer correction	11-48	-	Round of Beam correction	3-24	-	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	84-95	-	Summer Freeboard	118-48	-
	+	-																								
Depth Correction	13-81	-																								
Deduction for superstructures	-	-																								
Sheer correction	11-48	-																								
Round of Beam correction	3-24	-																								
Correction for Thickness of Deck amidships	-	-																								
Other corrections, scantlings, etc.	84-95	-																								
Summer Freeboard	118-48	-																								

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc not assigned	Tropical Fresh Water Freeboard not assigned
Fresh Water Line " 3"	Fresh Water " 14-07 1/4"
Tropical Line " not assigned	Tropical " not assigned
Winter Line below " 3"	Winter " 15'-1 1/4"
Winter North Atlantic Line " not assigned	Winter North Atlantic " not assigned