

Amended

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, TANKER)

Received
 Index No.
 Govt. Copy
 Owners C11

Ship's Name <i>Empire Doric</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <i>321.75</i> Breadth <i>54.0</i> Depth <i>27.0</i>	Freeboard Length	Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing)	tons	Surveyor's Signature	Date of Survey <i>28.8.56</i>
Coefficient of fineness for use with Tables <i>834</i>	Particulars of Classification				

DEPTH FOR FREEBOARD (D).

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*

DEPTH CORRECTION.

(a) Where D is greater than Table depth
 $(D - \text{Table depth}) R =$
(27.03 - 27.45) 2.475 = +13.81"
 (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) *54*
 Standard Round of Beam = $\frac{B \times 12}{50} = 12.96$
 Ship's Round of Beam = *None*
 Difference *12.96*
 Restricted to _____
 Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S}{L} \right) = \frac{12.96^2}{4} = 3.24"$

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

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	42.175	24	24	24	1	24	24
$\frac{1}{4}L$ from A.P.	18.77	4	15.08	12	12	12	4	48	48
$\frac{3}{4}L$ "	4.64	2	9.28	-	-	-	2	-	-
Amidships	0	4	0	0	0	0	4	0	0
$\frac{3}{4}L$ from F.P.	9.28	2	18.56	-	-	-	2	-	-
$\frac{1}{4}L$ "	37.54	4	150.16	-	-	-	4	-	-
F.P.	84.35	1	84.35	32.0	32	32	1	32	32
Total			379.61						104.0

Mean actual sheer aft = _____
 Mean standard sheer aft = _____
 Mean actual sheer forward = _____
 Mean standard sheer forward = _____

Deficient

Length of enclosed superstructure forward of amidships = _____
 " " aft of " = _____

Flush Deck

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. If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100ft.

Deduction for Tropical Freeboard.
 Addition for Winter and Winter North Atlantic Freeboard.

Ft.
 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) = _____

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 = $\frac{\Delta}{40 T}$ inches = *3*

TABULAR FREEBOARD corrected for Flush Deck (if required)
 Correction for coefficient *48.86 + 4.83*
834 + 68 $\frac{1.516}{1.36}$

	+	-
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.	89.95	-
Summer Freeboard	118.48	118.48

to summer moulded draught of 12'2 1/8"

53.69
59.77
air
28.8.56
+118.48
 Summer Freeboard = *178.25*

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, W₁ & Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc	<i>Not assigned</i>	Tropical Fresh Water Freeboard	<i>Not assigned</i>
Fresh Water Line	<i>3"</i>	Fresh Water	<i>Not assigned</i>
Tropical Line	<i>Not assigned</i>	Tropical	<i>Not assigned</i>
Winter Line	<i>3"</i>	Winter	<i>15 - 1/4"</i>
Winter North Atlantic Line	<i>Not assigned</i>	Winter North Atlantic	<i>Not assigned</i>