

For 3rd time only. FD/FS.

Lloyd's Register of Shipping.

KEYS FOR FREEBOARD.

COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Temple Yard	Official Number _____	Nationality and Port of Registry _____	Gross Tonnage _____	Date of Build 1936	Port of Survey <u>offic.</u> Date of Survey <u>1.3.51</u> Surveyor's Signature <u>AS</u> Particulars of Classification <u>Flush Deck Standard</u>
Moulded Dimensions: Length <u>425</u> Breadth <u>56.0</u> Depth <u>36.17</u>					
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					
Coefficient of fineness for use with Tables <u>702 assumed</u>					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 36.17 Stringer plate 92 08 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <u>36.25</u>	(a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(36.25 - 28.33) 3 = + 23.76$ ✓ (b) Where D is less than Table depth (if allowed) (Table depth - D) R = If restricted by superstructures ✓	Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = <u>Standard</u> Difference Restricted to Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ ✓

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					
Forecastle enclosed					
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total					

Flush deck

Standard Height of Superstructure 7.50
 „ „ R.Q.D. _____
 Deduction for complete superstructure 42.00
 Percentage covered $\frac{S}{L} =$
 „ „ $\frac{S_1}{L} =$ } NIL
 „ „ $\frac{E}{L} =$
 Percentage from Table, Line A.
 (corrected for absence of fore-castle (if required))
 Percentage from Table, Line B.
 (corrected for absence of fore-castle (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.		1				1	
$\frac{1}{4}$ L from A.P.		4				4	
$\frac{2}{4}$ 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							

Standard

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 „ = } NIL

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

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 = 36.25
 Summer freeboard = 9.89
 Moulded draught (d) = 27.25

Deduction for Tropical freeboard and addition for
 Winter freeboard = $\frac{d}{4}$ inches = 6.81 = 6¾

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 =

TABULAR FREEBOARD corrected for Flush Deck (if required)
 Correction for coefficient

	+	-
Depth Correction	23.76	-
Deduction for superstructures	-	-
Sheer correction	-	-
Round of Beam correction	-	-
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	23.76	-

Summer Freeboard = 107.89

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

Tropical Fresh Water Line above Centre of Disc	Tropical Fresh Water Freeboard
Fresh Water Line „ „	Fresh Water „ „
Tropical Line „ „	Tropical „ „
Winter Line below „ „	Winter „ „
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.

Block coeff @ 85% of 28.17 = .738 on $\Delta = 12010$ tons

$$\text{Change in bc at 85\% of } 36.17 = \left[.85 - .85 \left(\frac{28.17}{36.17} \right) \right] \frac{.0128}{0.1}$$

$$= \left[.85 - \frac{.662}{.738} \right] \times .128$$

$$= \frac{.0712 \times .128}{.188} = \frac{.009}{.738}$$

$$.747$$

$$\begin{array}{r} .024 - \\ .738 \\ \hline .762 - \end{array}$$

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



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Foundation