

Rpt. C.11.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

Poop, Bridge and Forecastle.

Port of Survey

Date of Survey **16.12.32.**

(Type of Superstructures.)

Ship's Name

MENIN RIDGE

Nationality and Port of Registry

British London.

Official Number

147731

Gross Tonnage

2474

Date of Build

1924.

Name of Surveyor

Particulars of Classification **+ 100 A.I.**

Moulded Dimensions: Length **297'** Breadth **43'75"** Depth **23'50"**
 Moulded displacement at moulded draught = 85 per cent. of moulded depth
 Coefficient of fineness for use with Tables **792**

Depth for Freeboard (D)

Moulded depth

Stringer plate

Sheathing on exposed deck

$$T \left(\frac{L-S}{L} \right) =$$

Depth for Freeboard (D) = **23'53"**

Depth correction

(a) Where D is greater than Table depth
(D - Table depth) R =**+ 8'62"**(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)

$$\text{Standard Round of Beam} = \frac{B \times 12}{50} =$$

Ship's Round of Beam

Difference

Restricted to

$$\text{Correction} = \frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \text{Nil.}$$

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					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure **35'13"**Percentage covered $\frac{S}{L} =$ " " $\frac{S_1}{L} =$ " " $\frac{E}{L} =$ **42.90%**

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. **Timber 64.81%**

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = **35.13 × 64.81 = - 22.77"**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1					1		
$\frac{1}{6}L$ from A.P.		4					4		
$\frac{2}{6}L$ "		2					2		
Amidships		4					4		
$\frac{3}{6}L$ from F.P.		2					2		
$\frac{4}{6}L$ "		4					4		
F.P.		1					1		
Total									

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = -2.00"$

If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **23'53"**Summer freeboard = **2'50"**Moulded draught (d) = **21'03"**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **5'4"**Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} = 7.01 = 7"$

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$ **6200**

Tons per inch immersion at summer load water line

 $T =$ **26.2**Deduction = $\frac{\Delta}{40T}$ inches**= 5.92 = 6"**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

+	-
8.52	-
-	22.77
-	2.00
-	-
-	-
-	-
8.52	24.77

Summer Freeboard = **29'95"**

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

Timber	23'	Timber	Tropical Fresh Water Freeboard ...	1'6 $\frac{3}{4}$ "
"	17 $\frac{3}{4}$ "	"	Fresh Water	2'0"
"	17"	"	Tropical	2'0 $\frac{3}{4}$ "
"	4 $\frac{3}{4}$ "	"	Winter	3'7"
"	7 $\frac{1}{2}$ "	"	Winter North Atlantic	4'1 $\frac{1}{4}$ "
"	11 $\frac{3}{4}$ "	"	Summer line above centre of disc.	

m.3.32.

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