

Rpt. C.11.

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TIMBER. W N A

Index. No. 27273.
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having *Poop - Bridge & Forecastle.*

BOUGARONI (Type of Superstructures.)

Ship's Name *SHEAF SPEAR.* Nationality and Port of Registry *British - Newcastle.* Official Number *142825.* Gross Tonnage *3050* Date of Build *1919.1.*

Moulded Dimensions: Length *330.62* Breadth *46.50* Depth *25.50*

Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons

Coefficient of fineness for use with Tables *.761.*

Port of Survey _____

Date of Survey *7-10-32.*

Name of Surveyor _____

Particulars of Classification _____

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth	(a) Where D is greater than Table depth (D - Table depth) R =	Moulded Breadth (B)
Stringer plate	<i>+8.90</i>	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T = \frac{(L-S)}{L} =$	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Ship's Round of Beam =
Depth for Freeboard (D) = <i>25.54</i>	If restricted by superstructures	Difference
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L}\right) =$

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					
W'ele enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total					

Standard Height of Superstructure _____

" " R.Q.D. _____

Deduction for complete superstructure *37.37.*

Percentage covered $\frac{S}{L} =$

" " $\frac{S_1}{L} =$

" " $\frac{E}{L} =$ *48.63.*

Percentage from Table, Line A.
(corrected for absence of forecastle (if required))

Percentage from Table, ~~Line B.~~ *TIMBER 68.39*
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required) ✓

Deduction = *37.37 × .6839 = -25.56*

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1					1		
$\frac{1}{8}L$ from A.P.		4					4		
$\frac{3}{8}L$ "							2		
Amidships							4		
$\frac{3}{8}L$ from F.P.							2		
$\frac{1}{8}L$ "							4		
F.P.							1		
Total									

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

If limited on account of ship superstructure.

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 " =

-2.21.

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 = *25.54*

Summer freeboard = *2.94*

Moulded draught (d) = *22.60*

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = *5.65 = 5\frac{3}{4}*

Addition for Winter North Atlantic Freeboard (if required) = $\frac{2}{3} \times 7.53 = 7\frac{1}{2}$

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = 7656$

Tons per inch immersion at summer load water line

$T = 30.74$

Deduction = $\frac{\Delta}{40T}$ inches

= *6.23*

= *6\frac{1}{4}*

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+
Depth Correction	<i>8.90</i>
Deduction for superstructures	-
Sheer correction	-
Round of Beam correction	-
Correction for Thickness of Deck amidships	-
Other corrections, scantlings, etc.	-

Timber. SUMMER FREEBOARD amidships from ~~Centre of Disc to top of Deck Line, Wood, Steel~~

<i>Timber</i> Tropical Fresh Water Line above Centre of Disc	<i>2' 0\frac{1}{2}"</i>
" Fresh Water Line " "	<i>1' 6\frac{3}{4}"</i>
" Tropical Line " "	<i>1' 6\frac{1}{4}"</i>
" Winter Line " "	<i>5'</i>
" Winter North Atlantic Line " " below " "	<i>5\frac{1}{2}"</i>
" Summer " " above " "	<i>1' 0\frac{1}{2}"</i>

Tropical Fresh Water F
Fresh Water
Tropical
Winter
Winter North Atlan

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