

LLOYD'S REGISTER OF SHIPPING
SURVEYS FOR FREEBOARD
(COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER~~)

Received
Index No.
Govt. Copy
Owners '11

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
"AFON CEFNI" EX ALICE					
Moulded Dimensions: Length 56.75 Breadth 16.83' Depth 7.75'					Surveyor's Signature
Freeboard Length 56.75 Ft. to CLRS.					Particulars of Classification 7100 AI TUG, U.K. COASTING SERVICE
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing)					
Coefficient of fineness for use with Tables ASSUME 0.68.					

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	7.75	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	
Stringer plate	0.25"			Standard Round of Beam = $\frac{B \times 12}{50}$	
	.02	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam	3.75"
Wood Sheathing on exposed deck				Difference	
$T \left(\frac{L-S}{L} \right) =$				Restricted to	
Depth for Freeboard (D) =	7.77	If restricted by superstructures		Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S}{L} \right)$	

DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	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					

Standard Height of Superstructure _____

" " R.Q.D. _____

Deduction for complete superstructure _____

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

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

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

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 = _____

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1		9"		1	
$\frac{1}{2}$ L from A.P. ...		4		2"		4	
$\frac{1}{2}$ L "		2		-1"		2	
Amidships	○	4	○	○	○	4	○
$\frac{1}{2}$ L from F.P. ...		2		7"		2	
$\frac{1}{2}$ L "		4		19"		4	
F.P.		1		34"		1	
Total							

Mean actual shear aft
Mean standard shear aft =

Mean actual shear forward
Mean standard shear forward =

Length of enclosed superstructure forward of amidships =
L

" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\begin{smallmatrix} .75 - S \\ 2L \end{smallmatrix} \right) =$

If limited on account of midship superstructure.

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

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = _____ Ft.</p> <p>Summer freeboard = _____</p> <p>Moulded draught (d) = _____</p> <p>Keel allowance 1" = <u>0.08</u></p> <p>Extreme draught = _____</p> <p>Deduction for Tropical freeboard and addition for = _____</p> <p>Winter freeboard = $\frac{d}{4}$ inches = _____</p> <p>Addition for Winter North Atlantic Freeboard (if required) = _____</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>Δ = _____</p> <p>Tons per inch immersion at summer load water line</p> <p>T = _____</p> <p>Deduction = $\frac{\Delta}{40 T}$ inches = _____</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th style="width: 10%; text-align: center;">+</th> <th style="width: 10%; text-align: center;">-</th> </tr> <tr> <td>Depth Correction</td> <td></td> <td></td> </tr> <tr> <td>Deduction for superstructures</td> <td></td> <td></td> </tr> <tr> <td>Sheer correction</td> <td></td> <td></td> </tr> <tr> <td>Round of Beam correction</td> <td></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></td> <td></td> </tr> <tr> <td>Summer Freeboard =</td> <td></td> <td></td> </tr> </table>		+	-	Depth Correction			Deduction for superstructures			Sheer correction			Round of Beam correction			Correction for Thickness of Deck amidships ...			Other corrections, scantlings, etc.			Summer Freeboard =		
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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	"