

TIMBER FREEBOARDS.

Index. No. 36256
(For London Office only).

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

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

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
EMPIRE PENGUIN (ex TENNESSEAN)		British London	1919	
Port of Survey Glasgow.				
Date of Survey 1 st , 5 th and 9 th May 1940				
Surveyor's Signature J. W. Thurston				
Particulars of Classification Class contemplated				

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) 54.5
Stringer plate	+ 23.25 /	Standard Round of Beam = $\frac{B \times 12}{50}$ =
Sheathing on exposed deck	(b) Where D is less than Table depth (if allowed)	Ship's Round of Beam =
T $\left(\frac{L-S}{L}\right)$ =	(Table depth-D) R =	Difference
Depth for Freeboard (D) = 34.55	If restricted by superstructures	Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right)$ = -0.14

Depth correction.

(a) Where D is greater than Table depth
(D—Table depth) R = + 23.25 /

(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) 54.5

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

Ship's Round of Beam =

Difference

Restricted to

Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right) = -14''$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	35.00				
„ overhang					
R.Q.D. enclosed					
„ overhang					
Bridge enclosed... ..					
„ overhang aft					
„ overhang forward					
F'cle enclosed	42.83				
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft ...					
„ „ forward					
Total	77.83				77.83

TUBES.
 Standard Height of Superstructure 7.5"
 " " R.Q.D. ✓
 Deduction for complete superstructure 42"
 Percentage covered $\frac{S}{L} =$
 " " $\frac{S_1}{L} =$
 " " $\frac{E}{L} =$
 Percentage from Table, Line A. **TIMBER** 40.81 ✓
 (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 = $42.00 \times .4081 = -17.14''$ ✓

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	
$\frac{2}{8}$ L „ ...		2				2	
Amidships ...		4				4	
$\frac{3}{8}$ L from F.P. ...		2				2	
$\frac{1}{8}$ L „ ...		4				4	
F.P.		1				1	
Total ...							

$$\frac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}} =$$

$$\frac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}} =$$

$$\frac{\text{Length of enclosed superstructure}}{L} \text{ forward of amidships} =$$

$$\begin{array}{ccccccc} & & & & \text{aft of} & & \\ & & & & & & \\ & & & & & & \end{array} =$$

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - \frac{8}{24}}{24} \right) =$
 If limited on account of midship superstructure. **No allowance**

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

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = <u>34.55</u> Ft.</p> <p>Timber Summer freeboard = <u>7.00</u></p> <p>Moulded draught (d) = <u>27.55</u></p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>6.89 = 7"</u></p> <p>Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} = 9.18 = 9\frac{1}{4}"$</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>$\Delta =$ <u>13740</u></p> <p>Tons per inch immersion at summer load water line</p> <p>T = <u>45.6</u></p> <p>Deduction = $\frac{\Delta}{40T}$ inches</p> <p>= <u>7.55"</u></p> <p>= <u>7$\frac{1}{2}"$</u></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;"> <thead> <tr> <th></th> <th style="text-align: center;">+</th> <th style="text-align: center;">-</th> </tr> </thead> <tbody> <tr> <td>Depth Correction</td> <td style="text-align: center;">23.25</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Deduction for superstructures</td> <td style="text-align: center;">-</td> <td style="text-align: center;">17.14</td> </tr> <tr> <td>Sheer correction</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Round of Beam correction</td> <td style="text-align: center;">-</td> <td style="text-align: center;">.14</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td></td> <td style="text-align: center;">23.25</td> <td style="text-align: center;">17.28</td> </tr> </tbody> </table> <p style="text-align: right;">Summer Freeboard = <u>84.03</u></p>		+	-	Depth Correction	23.25	-	Deduction for superstructures	-	17.14	Sheer correction	-	-	Round of Beam correction	-	.14	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	-	-		23.25	17.28
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TIMBER SUMMER FREEBOARD amidships from ~~Centre of Disc to~~ top of Deck Line, ~~Wood, Steel, Deck:~~

Timber	Tropical Fresh Water Line above Centre of Disc	Timber	Tropical Fresh Water Freeboard
11	Fresh Water Line " " ... 27 1/2"	11	Fresh Water " " ... 5'-9 1/2"
11	Tropical Line " " ... 20 1/2"	11	Tropical " " ... 6'-4 1/2"
11	Winter Line above below " " ... 20"	11	Winter " " ... 6'-5"
11	Winter North Atlantic Line below " " ... 3 3/4"	11	Winter North Atlantic " " ... 7'-7 1/4"
11	Winter North Atlantic Line below " " ... 6 1/2"	11	Winter North Atlantic " " ... 8'-7 1/2"

10m 3.37. T. Timber Summer Line above 13" ✓

005047-005055-0165

RECEIVED 28/5/01 23 MAY 1974

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.

Trade of ship.....

Names of sister ships.....

Builder's name and yard number.....

Owners.....

Fee £ : :



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