

*amended computation for reduced tanker tabular freeboard*

# LLOYD'S REGISTER OF SHIPPING SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

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Ship's Name <b>NAEJS VENTURER</b>	Official Number	Nationality and Port of Registry <b>Libman</b>	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <b>197m.</b> Breadth <b>26.40m</b> Depth <b>14.0</b>					Date of Survey <b>16.8.62</b>
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) _____ tons					Particulars of Classification <b>+100 A/Tanker</b>
Coefficient of fineness for use with Tables <b>790</b>					

**DEPTH FOR FREEBOARD (D).**

Moulded depth	...	...	...	<b>14.0</b>
Stringer plate	...	...	...	<b>.031</b>
Wood Sheathing on exposed deck	...	...	...	<b>✓</b>
$T \left( \frac{L-S}{L} \right) =$				
Depth for Freeboard (D) = <b>14.031</b>				

**DEPTH CORRECTION.**

(a) Where D is greater than Table depth (D-Table depth) R = **+224**

(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)

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

Ship's Round of Beam =

Difference

Restricted to

Correction =  $\frac{\text{Diff}^\circ}{4} \times \left( 1 - \frac{S_1}{L} \right) =$  **-3**

**DEDUCTION FOR SUPERSTRUCTURES.**

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	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  $\frac{S}{L} =$

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

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

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 = **-343**

**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	○
$\frac{2}{4}L$ from F.P.		2				2	
$\frac{1}{4}L$ "		4				4	
F.P.		1				1	
Total							

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 " =

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) =$  **+392** If limited to maximum allowance of 1 1/2 ins. per 100ft.

If limited on account of midship superstructure.

**Deduction for Tropical Freeboard.**

**Addition for Winter and Winter North Atlantic Freeboard.**

Depth to Freeboard Deck = **14.031**

Summer freeboard = **3.435**

Moulded draught (d) = **10.596**

Keel allowance =

Extreme draught =

Deduction for Tropical freeboard and addition for =

Winter freeboard =  $\frac{d}{4} = 2.644 = 8\frac{3}{4}$

Addition for Winter North Atlantic Freeboard (if required) = **164 + 221 = 385**

**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 = **9 1/2**

**TABULAR FREEBOARD** corrected for Deck (if required)

Correction for coefficient **1.47/1.36**

	+	-
Depth Correction	224	
Deduction for superstructures		343
Sheer correction	392	
Round of Beam correction		3
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
<b>616</b>	<b>346</b>	<b>+270</b>

**2931**

**3168**

**3438 = 135.35**

*il.*

**16.8.62**

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

**21 AUG 1962**

Tropical Fresh Water Line above Centre of Disc	18 1/4
Fresh Water Line " "	9 1/2
Tropical Line " "	8 3/4
Winter Line below " "	8 3/4
Winter North Atlantic Line " "	15

Tropical Fresh Water Freeboard	11-3 1/4
Fresh Water " "	9-9 1/2
Tropical " "	10-5 3/4
Winter " "	10-6 1/2
Winter North Atlantic " "	12-0
	12-6 1/4

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