

*amended computation
for return tanker tabular freeboard*

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LLOYD'S REGISTER OF SHIPPING

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received

Index No.

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Owners C11

Ship's Name NAFSS VENTURER	Official Number	Nationality and Port of Registry Libman	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 197m. Breadth 26.40m Depth 14.0					Date of Survey 16.8.62
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 790					Particulars of Classification +100 A1 tanker
Coefficient of fineness for use with Tables					

DEPTH FOR FREEBOARD (D).

Moulded depth **14.0**

Stringer plate **0.031**

Wood Sheathing on exposed deck

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

Depth for Freeboard (D) = **14.031**

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

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					
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 = $\frac{\text{Difference between sums of products}}{18} \left(\frac{S}{2L} - \frac{S_1}{2L} \right) =$ **+392**

If limited on account of midship superstructure.

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

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 = $\frac{d}{4}$ inches = **221 = 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 $\frac{1}{2}$**

TABULAR FREEBOARD corrected for Block 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.

+	-
224	
-	343
392	
-	3
-	
616	346

Summer Freeboard = **3438 - 135.35**

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 $\frac{1}{4}$**

Fresh Water Line " **9 $\frac{1}{2}$**

Tropical Line " **8 $\frac{3}{4}$**

Winter Line below " **8 $\frac{3}{4}$**

Winter North Atlantic Line " **15**

Tropical Fresh Water Freeboard

Fresh Water

Tropical

Winter

Winter North Atlantic

11-3 $\frac{1}{4}$

9 $\frac{1}{2}$

10 $\frac{1}{2}$

10 $\frac{1}{2}$

12 $\frac{1}{2}$

12 $\frac{1}{2}$