

*For 3<sup>rd</sup> Plan only. P.D. P.N. 50% E*

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <i>Temple Yard</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build <i>1936</i>	Port of Survey <i>Offic</i>
Moulded Dimensions: Length <i>425</i> Breadth <i>56.0</i> Depth <i>36.17</i>					Date of Survey <i>1.3.57</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature <i>ASL</i>
Coefficient of fineness for use with Tables <i>1.62</i>					Particulars of Classification <i>Flush deck with 50% sections</i>

**DEPTH FOR FREEBOARD (D).**

Moulded depth ... .. *36.17*

Stringer plate ... .. *.92* ... .. *.08*

Sheathing on exposed deck

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

Depth for Freeboard (D) = *36.25*

**DEPTH CORRECTION.**

(a) Where D is greater than Table depth (D-Table depth) R =  $(36.25 - 28.33) \times 3 = +23.76$

(b) Where D is less than Table depth (if allowed) (Table depth-D) R =  $7.92$

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 = *Standard*

Difference

Restricted to

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

**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					
Fore enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total					

*50% sections*

Standard Height of Superstructure *7.50*

" " R.Q.D. ... ..

Deduction for complete superstructure *42.00*

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

" "  $\frac{S_1}{L} =$  ... .. *50.00*

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

Percentage from Table, Line A. *32.00*  
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. *36.00*  
(corrected for absence of forecastle (if required))

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

Deduction =  $42.00 \times .36 = 15.12$

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

*Standard sheers*

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

If limited on account of midship superstructure.

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 = *36.25* Ft.

Summer freeboard = *7.73*

Moulded draught (d) = *28.52*

Deduction for Tropical freeboard and addition for Winter freeboard =  $\frac{d}{4}$  inches = *7.13 - 7.14*

Addition for Winter North Atlantic Freeboard (if required) =

**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 =

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

Correction for coefficient  $\frac{.702 \times .68}{1.36} = \frac{1.472}{1.36}$

+	-
Depth Correction	<i>23.76</i>
Deduction for superstructures	<i>15.12</i>
Sheer correction	
Round of Beam correction	
Correction for Thickness of Deck amidships	
Other corrections, scantlings, etc.	
<b>Summer Freeboard</b>	<b><i>92.77</i></b>

*79.35*  
*84.13*

**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	"

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