

For 3rd Floor only - CSV/TO.

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 1936	Port of Survey <i>Office</i>
Moulded Dimensions: Length <i>425</i> Breadth <i>56.0</i> Depth <i>28.17</i>					Date of Survey <i>1-3-51</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature <i>AS</i>
Coefficient of fineness for use with Tables <i>738</i>					Particulars of Classification <i>1602 Superstructure</i>

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth <i>28.17</i>	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B)
Stringer plate ... <i>.65</i> <i>0.5</i>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck	<i>(28.33 - 28.22) 3 = -.33</i> ✓	Ship's Round of Beam = <i>Standard</i>
$T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures ✓	Difference
Depth for Freeboard (D) = <i>28.22</i>		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$

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					

100% Superstructures

Standard Height of Superstructure *7.5*

" " R.Q.D. _____

Deduction for complete superstructure *42"*

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

" " $\frac{S_1}{L} =$ } *100%*

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

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 = *42 x 1.00 = 42"* ✓

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1		<i>+6"</i>		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		<i>+6"</i>		1	
Total							

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ *-0.25"* ✓

If limited on account of midship superstructure.

Mean actual sheer aft = *Standard*

Mean standard sheer aft =

Mean actual sheer forward = *Standard*

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = *100%*

" " aft of " =

Actual height of Superstructure *8.00'*

Standard " *7.25'*

.50'

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	<i>79.35</i>
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.738 + .68}{1.36} = \frac{1.418}{1.36}$	<i>82.74</i>
Depth to Freeboard Deck = <i>28.22</i>	$\Delta =$	Depth Correction	<i>.33</i>
Summer freeboard = <i>3.35</i>	Tons per inch immersion at summer load water line	Deduction for superstructures	<i>42.00</i>
Moulded draught (d) = <i>24.87</i>	T =	Sheer correction	<i>50</i>
Deduction for Tropical freeboard and addition for	Deduction = $\frac{\Delta}{40 T}$ inches	Round of Beam correction	<i>1.3-51</i>
Winter freeboard = $\frac{d}{4}$ inches = <i>6.22 = 6'4"</i>	=	Correction for Thickness of Deck amidships	<i>-</i>
Addition for Winter North Atlantic Freeboard (if required) =		Other corrections, scantlings, etc.	<i>-</i>
		Summer Freeboard = <i>82.96</i>	

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 " "