

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

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

Ship's Name S. H. W. R. 1662	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 180 Breadth 40 Depth 15					Date of Survey 22-6-40
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables 70 assumed					Particulars of Classification + 101 M with (W) Fully (with limiting ports)

Depth for Freeboard (D). Moulded depth ... assumed 13.62 Stringer plate ... 0.03 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 13.65	Depth correction. (a) Where D is greater than Table depth (D - Table depth) R = $(13.65 - 12.00) \times 1.385 = +2.28$ (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 assumed none Restricted to Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ Nil
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...						Standard Height of Superstructure
„ overhang ...						„ „ R.Q.D.
R.Q.D. enclosed ...						Deduction for complete superstructure
„ overhang ...						Percentage covered $\frac{S}{L} =$
Bridge enclosed ...						„ „ $\frac{S_1}{L} =$
„ overhang aft ...						„ „ $\frac{E}{L} =$
„ overhang forward						Percentage from Table, Line A.
Fore enclosed ...						(corrected for absence of fore-castle (if required))
„ overhang ...						Percentage from Table, Line B.
Trunk aft ...						(corrected for absence of fore-castle (if required))
„ forward ...						Interpolation for bridge less than 2L (if required)
Tonnage opening aft ...						Deduction =
„ „ forward						
Total ...						

Flush Deck

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...		1					1			Mean actual sheer aft =
$\frac{1}{8}$ L from A.P. ...		4					4			Mean standard sheer aft =
$\frac{3}{8}$ L „ ...		2					2			Mean actual sheer forward =
Amidships ...		4					4			Mean standard sheer forward =
$\frac{3}{8}$ L from F.P. ...		2					2			Length of enclosed superstructure forward of amidships =
$\frac{1}{8}$ L „ ...		4					4			„ „ aft of „ =
F.P. ...		1					1			
Total ...										

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

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. assumed Depth to Freeboard Deck = 13.65 Summer freeboard = 1.86 Moulded draught (d) = 11.79 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 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 = $\frac{\Delta}{40T}$ inches =	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{70 + 0.65}{1.36} = \frac{1.35}{1.36} =$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction ...</td> <td>2.28</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures ...</td> <td>-</td> <td>-</td> </tr> <tr> <td>Sheer correction ...</td> <td>-</td> <td>-</td> </tr> <tr> <td>Round of Beam correction ...</td> <td>-</td> <td>-</td> </tr> <tr> <td>Correction for Thickness of Deck amidships ...</td> <td>-</td> <td>-</td> </tr> <tr> <td>Other corrections, scantlings, etc. ...</td> <td>-</td> <td>-</td> </tr> <tr> <td>Summer Freeboard</td> <td>22.37</td> <td>-</td> </tr> </table>		+	-	Depth Correction ...	2.28	-	Deduction for superstructures ...	-	-	Sheer correction ...	-	-	Round of Beam correction ...	-	-	Correction for Thickness of Deck amidships ...	-	-	Other corrections, scantlings, etc. ...	-	-	Summer Freeboard	22.37	-
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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 „ „ ...	