

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey
having <u>Poop. - Bridge - Forecastle</u>					
(Type of Superstructures.)					Date of Survey
Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Name of Surveyor
Moulded Dimensions: Length Breadth Depth					Particulars of Classification
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					
Coefficient of fineness for use with Tables <u>.445</u>					

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth	(a) Where D is greater than Table depth (D - Table depth) R = <u>+ 4.58</u>	Moulded Breadth (B)
Stringer plate	(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 $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam =
Depth for Freeboard (D) = <u>23.54</u>		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <u>- .01</u>

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 35.635
Percentage covered $\frac{S}{L} =$ _____
„ „ $\frac{S_1}{L} =$ _____
„ „ $\frac{E}{L} =$ 53.62
Percentage from Table, Line A.
(corrected for absence of forecastle (if required))
Percentage from Table, Line B. Timber 41.51
(corrected for absence of forecastle (if required))
Interpolation for bridge less than 2L (if required)
Deduction = 35.635 + 4.51 = 25.47

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
P.		1					1		
L from A.P.		4					4		
L „		2					2		
amidships		4					4		
L from F.P.		2					2		
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 = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$

If limited on account of midship superstructure.

- 2.36

If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <u>23.54</u> Summer freeboard = <u>2.24</u> Moulded draught (d) = <u>21.54</u> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>5.32 = 5¼</u> Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} = 4.09 = 4$	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ <u>6510</u> Tons per inch immersion at summer load water line $T =$ <u>24.9</u> Deduction = $\frac{\Delta}{40 T}$ inches = <u>5.83</u> <u>= 5¾</u>	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient Depth Correction <u>7.58</u> Deduction for superstructures <u>25.44</u> Sheer correction <u>2.36</u> Round of Beam correction <u>.01</u> Correction for Thickness of Deck amidships Other corrections, scantlings, etc. Summer Freeboard = <u>24.34</u>
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47.60

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood , Steel, Deck Tropical Fresh Water Line above Centre of Disc ... <u>2½</u> Fresh Water Line „ „ ... <u>16¼</u> Tropical Line „ „ ... <u>15¾</u> Winter Line „ „ ... <u>3½</u> Winter North Atlantic Line „ „ ... <u>8</u>	SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood , Steel, Deck Tropical Fresh Water Freeboard Fresh Water „ „ Tropical „ „ Winter „ „ Winter North Atlantic „ „
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