

Timber Hds
Approx. summer draught desired by Sir J. Schurwood
Lloyd's Register of Shipping.
Index No. _____
(For London Office only).

SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <i>Lord Cochrane</i> <i>etc Arcueil</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build <i>1934</i>	Port of Survey
Moulded Dimensions: Length <i>360.0</i> Breadth _____ Depth <i>26.75</i>					Date of Survey <i>4/18/37</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature _____
Coefficient of fineness for use with Tables _____					Particulars of Classification _____

Depth for Freeboard (D). Moulded depth Stringer plate Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = _____	Depth correction. (a) Where D is greater than Table depth (D-Table depth) R = <i>+ 7.70</i> (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 = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <i>-.03</i>
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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						
Fore enclosed						
.. overhang						
Trunk aft						
.. forward						
Tonnage opening aft						
.. forward						
Total						

Standard Height of Superstructure _____
" " R.Q.D. _____
Deduction for complete superstructure *39.33*
Percentage covered $\frac{S}{L} =$ _____
" " $\frac{S_1}{L} =$ _____
" " $\frac{E}{L} =$ *51.37%*
Percentage from Table, Line A. _____
(corrected for absence of forecastle (if required))
Percentage from Table, Line B. _____
(corrected for absence of forecastle (if required)) *70.10%*
Interpolation for bridge less than .2L (if required) _____
Deduction = *39.33 x 70.10 = 27.57"*

SHEER CORRECTION.

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

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ *- 1.35"*
If limited on account of midship superstructure. _____
If limited to maximum allowance of 1½ ins. per 100 ft. _____

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Ft. Depth to Freeboard Deck = _____ Summer freeboard = _____ Moulded draught (d) = _____ 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 _____ Depth Correction <i>7.70</i> Deduction for superstructures <i>- 27.57</i> Sheer correction <i>- 1.35</i> Round of Beam correction <i>- .03</i> Correction for Thickness of Deck amidships Other corrections, scantlings, etc. <i>7.70 28.95 - 21.25</i> Summer Freeboard = <i>39.11</i>
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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 " "

10m 3.37. T.