

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name ANGLO SAXON PROPOSED TANKER.	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey <u>London.</u>
Moulded Dimensions: Length <u>434.00</u> Breadth <u>62.50</u> Depth <u>23.00</u>					Date of Survey <u>8/8/38.</u>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature _____
Coefficient of fineness for use with Tables <u>.78 (stated by Owner's supt.)</u>					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) = <u>23.05</u>	Depth correction. (a) Where D is greater than Table depth (D-Table depth) R = <input checked="" type="checkbox"/> (b) Where D is less than Table depth (if allowed) (Table depth-D) R = <u>-17.64</u> If restricted by superstructures <input checked="" type="checkbox"/>	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 = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <input checked="" type="checkbox"/>
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure <u>7.50</u>
.. overhang R.Q.D. <input checked="" type="checkbox"/>
R.Q.D. enclosed						Deduction for complete superstructure <u>42.00</u>
.. overhang						Percentage covered $\frac{S}{L} =$ <u>38.48</u>
Bridge enclosed... $\frac{S_1}{L} =$ <u>77.21</u>
.. overhang aft $\frac{E}{L} =$ <u>77.21</u>
.. overhang forward						Percentage from Table, <u>Line A TANKER</u> = <u>71.87</u> (corrected for absence of forecastle (if required))
F'cle enclosed						Percentage from Table, <u>Line B</u> <input checked="" type="checkbox"/> (corrected for absence of forecastle (if required)) <input checked="" type="checkbox"/>
.. overhang						Interpolation for bridge less than 2L (if required) <input checked="" type="checkbox"/>
Trunk aft						Deduction = <u>30.18</u>
.. forward						
Tonnage opening aft						
.. .. forward						
Total	<u>167.00</u>	<u>335.12</u>			<u>335.12</u>	

SHEER CORRECTION.

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

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) =$ + 7.65
If limited on account of midship superstructure. If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <u>23.05</u> Ft. Summer freeboard = <u>3.00</u> Moulded draught (d) = <u>20.05</u> 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 =	TANKER TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{1.46}{1.36}$ Depth Correction Deduction for superstructures Sheer correction Round of Beam correction Correction for Thickness of Deck amidships Other corrections, scantlings, etc. Summer Freeboard = <u>35.99</u>
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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 " "