

11 OCT 1932

TIMBER DK CARGO

Index. No. 34211
(For London Office only.)

Rpt. C.11.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having POOP, BRIDGE & F'CLE

Port of Survey New Orleans La

Date of Survey July 12th 1932

Name of Surveyor T. G. DODD

Particulars of Classification + 100 A.1

(Type of Superstructures.)

Ship's Name D'Alvauger Nationality and Port of Registry Swedish Official Number 9116 Gross Tonnage 2412 Date of Build 1931/10

Moulded Dimensions: Length 289.50 Breadth 45.50 Depth 20.50

Moulded displacement at moulded draught = 85 per cent. of moulded depth 5044 tons

Coefficient of fineness for use with Tables .769

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>+ 2.81</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>20.56</u>		Difference
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L} \right) =$ <u>- .05</u>

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure
" overhang						" " R.Q.D. <u>34.63</u>
R.Q.D. enclosed						Deduction for complete superstructure
" overhang						Percentage covered $\frac{S}{L} =$
Bridge enclosed... ..						" " $\frac{S_i}{L} =$
" overhang aft						" " $\frac{E}{L} =$ <u>51.27</u>
" overhang forward						Percentage from Table, Line A.
F'cle enclosed						(corrected for absence of forecastle (if required))
" overhang						Percentage from Table, Line B. <u>TIMBER</u> <u>70.04%</u>
Trunk aft						(corrected for absence of forecastle (if required))
" forward						Interpolation for bridge less than .2L (if required)
Tonnage opening aft ...						Deduction = <u>34.63 x .7004 = -24.25</u>
" " forward						
Total						

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
$\frac{1}{8}$ L "		4					4			L forward of amidships =
F.P.		1					1			" " aft of " =
Total										

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ - 1.24

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.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Fresh Deck (if required)	
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{1.449}{1.36}$	<u>40.88</u>
Depth to Freeboard Deck = <u>20.56</u>	$\Delta =$ <u>55.32</u>	Depth Correction	<u>43.55</u>
Summer freeboard = <u>1.73</u>	Tons per inch immersion at summer load water line	Deduction for superstructures	
Moulded draught (d) = <u>18.83</u>	T = <u>27.14</u>	Sheer correction	
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>4.71 = 4\frac{3}{4}</u>	Deduction = $\frac{\Delta}{40T}$ inches = <u>5.10</u>	Round of Beam correction... ..	
Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} = 6.28 = 6\frac{1}{4} = 159\frac{1}{4}$	<u>5 = 127\frac{1}{2}</u>	Correction for Thickness of Deck amidships	
		Other corrections, scantlings, etc.	
		2.81 25.54 - 22.73	
		Summer Freeboard = <u>20.82</u>	

TIMBER SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, WOOD, Steel, Deck :-

TIMBER Tropical Fresh Water Line above Centre of Disc	<u>21\frac{1}{4} = 540\frac{1}{2}</u>	Tropical Fresh Water Freeboard ...	<u>1' - 8\frac{3}{4}" = 527</u>
" Fresh Water Line	<u>16\frac{1}{2} = 419</u>	" Fresh Water	<u>0' - 11" = 279</u>
" Tropical Line	<u>16\frac{1}{4} = 413</u>	" Tropical	<u>1' - 3\frac{3}{4}" = 400</u>
" Winter Line	<u>5\frac{1}{4} = 133</u>	" Winter	<u>1' - 4" = 406</u>
" Winter North Atlantic Line	<u>6\frac{1}{2} = 165</u>	" Winter North Atlantic	<u>2' - 3" = 686</u>
" SUMMER ABOVE	<u>11\frac{1}{2} = 292</u>	" Winter North Atlantic	<u>3' - 2\frac{3}{4}" = 984</u>

21 OCT 1932

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