

TIMBER DECK CARGOES

Rpt. C.11.

Lloyd's Register of Shipping. SURVEYS FOR FREEBOARD.

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

Computation of Freeboard for Steamer, Sailing Ship, Tanker having <u>Forecastle, bridge & poop</u>					Port of Survey <u>Bergen</u>
(Type of Superstructures.)					Date of Survey <u>23rd & 24th June 1932</u>
Ship's Name <u>TELA</u>	Nationality and Port of Registry <u>Norwegian</u> <u>Bergen</u>	Official Number <u>/</u>	Gross Tonnage <u>2960</u>	Date of Build <u>1916/5</u>	Name of Surveyor _____
Moulded Dimensions: Length <u>305.0</u> Breadth <u>43.75</u> Depth <u>27.25</u>					Particulars of Classification <u>*100A1</u>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					
Coefficient of fineness for use with Tables <u>.758</u>					

Depth for Freeboard (D) Moulded depth <u>27.25</u> Ringer plate <u>.04</u> Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <u>27.29</u>	Depth correction (a) Where D is greater than Table depth (D - Table depth) R = <u>+16.33</u> (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 = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <u>- .03</u>
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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 <u>6.55</u>
" overhang						" " R.Q.D. _____
R.Q.D. enclosed						Deduction for complete superstructure <u>35.67</u>
" overhang						Percentage covered $\frac{S}{L} =$ _____
Bridge enclosed						" " $\frac{S_1}{L} =$ _____
" overhang aft						" " $\frac{E}{L} =$ <u>44.51</u>
" overhang forward						Percentage from Table, Line A. (corrected for absence of forecastle (if required))
F'cle enclosed						Percentage from Table, Line B. <u>65.82</u> ✓
" overhang						(corrected for absence of forecastle (if required))
Trunk aft						Interpolation for bridge less than .2L (if required)
" forward						Deduction = <u>- 73.48</u> ✓
Tonnage opening aft						
" " forward						
Total						

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	
... ..		1				1		Mean actual sheer aft =
from A.P.		4				4		Mean standard sheer aft =
"		2				2		Mean actual sheer forward =
amidships		4				4		Mean standard sheer forward =
from F.P.		2				2		Length of enclosed superstructure forward of amidships =
"		4				4		" " aft of " =
... ..		1				1		
Total								

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ - 1.85

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. Depth to Freeboard Deck = <u>27.29</u> Ft. Summer freeboard = <u>3.18</u> Moulded draught (d) = <u>24.11</u> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>6.03</u> = <u>153 mm</u> Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3}$ = <u>8.04</u> = <u>204 mm</u>	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 = $\frac{\Delta}{40 T}$ inches = <u>6.03</u> = <u>153 mm</u>	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient _____ Depth Correction <u>16.33</u> ✓ Deduction for superstructures <u>23.48</u> ✓ Sheer correction <u>1.85</u> ✓ Round of Beam correction <u>.03</u> ✓ Correction for Thickness of Deck amidships Other corrections, scantlings, etc. Summer Freeboard = <u>38.18</u> ✓
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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>24.26</u>	<u>618 mm</u>
"	Fresh Water Line	<u>18.33</u>	<u>465</u>
"	Tropical Line	<u>18.33</u>	<u>465</u>
"	Winter Line	<u>4.26</u>	<u>108</u>
"	Winter North Atlantic Line	<u>7.77</u>	<u>198</u>
SUMMER	above	<u>12.30</u>	<u>312</u>
TIMBER	Tropical Fresh Water Freeboard	<u>26.12</u>	<u>664</u>
"	Fresh Water	<u>32.15</u>	<u>817</u>
"	Tropical	<u>32.15</u>	<u>817</u>
"	Winter	<u>46.22</u>	<u>1174</u>
"	Winter North Atlantic	<u>58.25</u>	<u>1480</u>

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