

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

 Index. No. 32156  
 (For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker  
 having Bridge & Poop — Foreale

(Type of Superstructures.)

Ship's Name "Munorleans" Nationality and Port of Registry  Official Number  Gross Tonnage  Date of Build 1911

Moulded Dimensions: Length 352 Breadth 48.5 Depth 27.25  
 Moulded displacement at moulded draught = 85 per cent. of moulded depth  tons  
 Coefficient of fineness for use with Tables .72 assumed.

Port of Survey   
 Date of Survey 8.12.31  
 Name of Surveyor   
 Particulars of Classification 100 A1  
with freeboard

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... .. <u>27.25</u>	(a) Where D is greater than Table depth (D - Table depth) R = <u>(27.29 - 23.47) 2.708 = + 10.35</u>	Moulded Breadth (B) <u>48.5</u>
er plate ... .. <u>.04</u>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$ <u>11.64</u>
ing on exposed deck ( $\frac{L-S}{L}$ ) =		Ship's Round of Beam = <u>13.00</u>
		Difference <u>1.36</u>
Depth for Freeboard (D) = <u>27.29</u>	If restricted by superstructures <u>✓</u>	Restricted to
		Correction = $\frac{\text{Diff}^*}{4} \times (1 - \frac{S_1}{L}) =$ <u>.34(1 - .91) = -.03</u>

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
op enclosed ...					
overhang ...					
Q.D. enclosed					
overhang					
idge enclosed...	<u>274.10</u>	<u>274.10</u>	<u>8.0</u>	<u>✓</u>	<u>274.10</u>
overhang aft					
overhang forward					
le enclosed ...	<u>46.92</u>	<u>46.92</u>	<u>8.0</u>		<u>46.92</u>
overhang ...					
ank aft ...					
forward ...					
mage opening aft ...					
forward					
Total ...	<u>321.02</u>	<u>321.02</u>			<u>321.02</u>

Standard Height of Superstructure 7.02  
 " " R.Q.D. ✓

Deduction for complete superstructure 38.80

Percentage covered  $\frac{S}{L} =$  91.20  
 " "  $\frac{S_1}{L} =$  91.20  
 " "  $\frac{E}{L} =$  91.20

Percentage from Table, Line A.  
 (corrected for absence of forecastle (if required))

Percentage from Table, Line B. 89.18  
 (corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = 38.80 × .8918 = - 34.60

### SHEER CORRECTION.

ion	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
...	<u>45.20</u>	1		<u>42.00</u>	<u>42.00</u>	1	<u>42.00</u>
A.P. ...		4		<u>15.41</u>	<u>15.41</u>	4	<u>61.64</u>
...		2		<u>3.85</u>	<u>8.85</u>	2	<u>7.70</u>
S ...		4				4	
F.P. ...		2		<u>9.48</u>	<u>9.48</u>	2	<u>18.96</u>
...		4		<u>37.92</u>	<u>37.92</u>	4	<u>151.68</u>
...	<u>90.40</u>	1		<u>80.00</u>	<u>80.00</u>	1	<u>80.00</u>
al ...			<u>406.80</u>				<u>361.98</u>

Mean actual sheer aft = deficient  
 Mean standard sheer aft

Mean actual sheer forward = deficient  
 Mean standard sheer forward

Length of enclosed superstructure forward of amidships =  $\frac{98.10}{352} = .279$   
 " " aft of " = to stem

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{44.82}{18} (.75 - .456) = + .73$

ited on account of midship superstructure. ✓

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft. ✓

Correction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
for Winter and Winter North Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.72 + .68}{1.36} = \frac{1.40}{1.36}$
Depth to Freeboard Deck = <u>27.29</u>	Δ =	Depth Correction ... .. <u>10.35</u>
Summer freeboard = <u>3.18</u>	Tons per inch immersion at summer load water line	Deduction for superstructures ... .. <u>- 34.60</u>
Moulded draught (d) = <u>24.11</u>	T =	Sheer correction ... .. <u>.73</u>
Correction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>6.03</u>	Deduction = $\frac{\Delta}{40T}$ inches	Round of Beam correction ... .. <u>-.03</u>
Addition for Winter North Atlantic Freeboard (if required =	<u>6"</u> (as in 1906 report)	Correction for Thickness of Deck amidships ... .. <u>-</u>
		Other corrections, scantlings, etc. <u>1906 report</u> <u>3.0</u>
		Summer Freeboard = <u>38.21</u>

Freeboard assigned by American Bureau  
 Approx. " computed in this office



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 Foundation

W499-0167