

For Scantling Purposes only

Rpt. C.11 (Comp.).

Index No. _____
(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <i>Mon. Furness S.B. Co's yard No 387/8</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <i>535.75</i> Breadth <i>74.0</i> Depth <i>57.0</i> <i>centre of middle stow.</i>					Date of Survey <i>24-3-44</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature
Coefficient of fineness for use with Tables					Particulars of Classification <i>+ 100 M with fuel Carrying petroleum in bulk (Contracted)</i>

<p>Depth for Freeboard (D).</p> <p>Moulded depth ... <i>47.80</i></p> <p>Stringer plate ... <i>.07</i></p> <p>Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$</p> <p>Depth for Freeboard (D) = <i>47.87</i></p>	<p>Depth correction.</p> <p>(a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(47.87 - 35.71) \times 3 = +36.48$ <i>12 16</i></p> <p>(b) Where D is less than Table depth (if allowed) (Table depth - D) R =</p> <p>If restricted by superstructures</p>	<p>Round of Beam correction.</p> <p>Moulded Breadth (B)</p> <p>Standard Round of Beam = $\frac{B \times 12}{50} =$</p> <p>Ship's Round of Beam =</p> <p>Difference <i>assumed standard</i></p> <p>Restricted to</p> <p>Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <i>Nil</i></p>
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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					
F'cle enclosed ...					
.. overhang ...					
Trunk aft ...					
.. forward ...					
Tonnage opening aft ...					
.. forward					
Total ...					

Flush Deck

Standard Height of Superstructure	
.. R.Q.D.	
Deduction for complete superstructure	
Percentage covered $\frac{S}{L} =$	
.. $\frac{S_1}{L} =$	
.. $\frac{E}{L} =$	
Percentage from Table, Line A. (corrected for absence of forecastle (if required))	
Percentage from Table, Line B. (corrected for absence of forecastle (if required))	
Interpolation for bridge less than 2L (if required)	
Deduction = <i>Nil</i>	

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...		1				1	
$\frac{1}{2}L$ from A.P. ...		4				4	
$\frac{3}{8}L$..		2				2	
Amidships ...		4				4	
$\frac{3}{8}L$ from F.P. ...		2				2	
$\frac{1}{2}L$..		4				4	
F.P. ...		1				1	
Total ...							

assumed standard

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
L

.. .. aft of .. =

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

If limited on account of midship superstructure.

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

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = <i>47.87</i></p> <p>Summer freeboard = <i>13.55</i></p> <p>Moulded draught (d) = <i>34.32</i></p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =</p> <p>Addition for Winter North Atlantic Freeboard (if required) =</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>$\Delta =$</p> <p>Tons per inch immersion at summer load water line</p> <p>T =</p> <p>Deduction = $\frac{\Delta}{40T}$ inches =</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient $\frac{.844 + .08}{1.36} = \frac{1.524}{1.36}$</p> <table border="1"> <tr><td>+</td><td>-</td></tr> <tr><td>36.48</td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td>36.48</td><td></td></tr> <tr><td></td><td></td></tr> </table> <p>Summer Freeboard = <i>162.58</i></p>	+	-	36.48														36.48			
+	-																					
36.48																						
36.48																						

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

13.55 free

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