

TIMBER.

Index. No.   
 (For London Office only).

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <b>"RUNMARO"</b>	Official Number	Nationality and Port of Registry <i>Swedish Stockholm</i>	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <b>314.0</b> Breadth <b>46.33</b> Depth <b>23.46</b>					Date of Survey <b>8.10.42</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth <b>6615</b> tons					Surveyor's Signature
Coefficient of fineness for use with Tables <b>.798</b> ✓					Particulars of Classification

<b>Depth for Freeboard (D).</b> Moulded depth ..... Stringer plate ..... Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <b>23.50</b> ✓	<b>Depth correction.</b> (a) Where D is greater than Table depth (D—Table depth) R = <b>+6.21</b> ✓ (b) Where D is less than Table depth (if allowed) (Table depth—D) R = If restricted by superstructures	<b>Round of Beam correction.</b> Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = Difference Restricted to Correction = $\frac{\text{Diffe}}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <b>-0.05</b> ✓
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## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed .....	<b>24.5</b>	<b>24.5</b>	<b>7.5</b>		
» overhang .....					
R.Q.D. enclosed .....					
» overhang .....					
Bridge enclosed .....	<b>97.92</b>	<b>97.92</b>	<b>7.5</b>		
» overhang aft .....					
» overhang forward .....					
F'cle enclosed .....	<b>35.08</b>	<b>35.08</b>	<b>7.5</b>		
» overhang .....					
Trunk aft .....					
» forward .....					
Tonnage opening aft ...					
» » forward					
Total .....	<b>157.5</b>	<b>157.5</b>			

Standard Height of Superstructure **6.64**  
» » R.Q.D. ....  
Deduction for complete superstructure **36.27**  
Percentage covered  $\frac{S}{L} =$  **50.16**  
» »  $\frac{S_1}{L} =$  **50.16**  
» »  $\frac{E}{L} =$  **50.16**  
Percentage from Table, Line A.  
(corrected for absence of forecastle [if required])  
Percentage from Table, ~~Line B~~ **TIMBER** **69.35** ✓  
(corrected for absence of forecastle [if required])  
Interpolation for bridge less than 2L (if required)  
Deduction = **36.27 × .6935 = -25.15** ✓

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ....		1					1		
1/6 L from A.P. ...		4					4		
2/6 L » ...		2					2		
Amidships .....		4					4		
2/6 L from F.P. ...		2					2		
1/6 L » ...		4					4		
F.P. ....		1					1		
Total ...									

Mean actual sheer aft =  
Mean standard sheer aft =  
Mean actual sheer forward =  
Mean standard sheer forward =  
Length of enclosed superstructure forward of amidships =  
» » aft of » =  
Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) =$  **-0.76** ✓  
If limited to maximum allowance of 1 1/2 ins. per 100 ft.

<b>Deduction for Tropical Freeboard.</b> <b>Addition for Winter and Winter North Atlantic Freeboard.</b> Depth to Freeboard Deck = <b>23.50</b> Ft. Summer freeboard = <b>2.60</b> Moulded draught (d) = <b>20.90</b> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <b>5.23</b> = <b>133</b> ✓ Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3}$ = <b>6.97</b> = <b>177</b> ✓	<b>Deduction for Fresh Water.</b> Displacement in salt water at summer load water line $\Delta =$ <b>7001</b> ✓ Tons per inch immersion at summer load water line $T =$ <b>30.47</b> ✓ Deduction = $\frac{\Delta}{40 T}$ inches = <b>5.75</b> ✓ = <b>146</b> ✓	<b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required) Correction for coefficient Depth Correction ..... <b>6.21</b> ✓ Deduction for superstructures ..... <b>-25.15</b> ✓ Sheer correction ..... <b>.76</b> ✓ Round of Beam correction ..... <b>.05</b> ✓ Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. .... Summer Freeboard = <b>31.23</b> ✓
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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	<b>572</b>
» Fresh Water Line	<b>439.7</b>
» Tropical Line	<b>426</b>
» Winter Line	<b>116</b>
» Winter North Atlantic Line	<b>190</b>
SUMMER	<b>293</b>

TIMBER Tropical Fresh Water Freeboard	<b>514</b>
» Fresh Water	<b>647</b>
» Tropical	<b>660</b>
» Winter	<b>970</b>
» Winter North Atlantic	<b>1276</b>