

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

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

Ship's Name <i>Selandia</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <i>425.0</i> Breadth <i>63.0</i> Depth <i>28.0</i>					Date of Survey <i>9.9.38</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth $12560 \text{ m}^3 = 12450$ tons					Surveyor's Signature
Coefficient of fineness for use with Tables <i>.684 .696</i>					Particulars of Classification <i>100A1 with funnels (Construct to L.R.)</i>

Depth for Freeboard (D). Moulded depth ... <i>28.00</i> Stringer plate ... <i>.04</i> Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓ Depth for Freeboard (D) = <i>28.04</i>	Depth correction. (a) Where D is greater than Table depth (D-Table depth) R = ✓ (b) Where D is less than Table depth (if allowed) (Table depth-D) R = $(28.33 - 28.04) \times 3 = -1.87$ If restricted by superstructures <i>.29</i>	Round of Beam correction. Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} = 15.12$ Ship's Round of Beam <i>15.12</i> Difference Restricted to Correction = $\frac{\text{Diff} \times (1 - \frac{S_1}{L})}{4} =$ <i>Nil</i>
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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 ...					
„ enclosed ...					
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ forward ...					
Total ...					

C.S.S.

Standard Height of Superstructure *7.5*
 „ „ R.Q.D. *✓*
 Deduction for complete superstructure *42.0*
 Percentage covered $\frac{S}{L} =$
 $\frac{S_1}{L} =$ } *100%*
 $\frac{E}{L} =$
 Percentage from Table, Line A. *100%*
 (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 = *-42.00*

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		
$\frac{2}{3}$ L „ ...		2					2		
Amidships ...		4					4		
$\frac{2}{3}$ L from F.P. ...		2					2		
$\frac{1}{2}$ L „ ...							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 =
 „ „ aft of „ =
 L.R. Tonnage height = *8.0*
 Standard superstructure = *7.5*
 Diff = *.5*

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - \frac{S}{2L}}{2L} \right) =$ *-.50*
 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. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <i>28.04</i> Summer freeboard = <i>3.08</i> Moulded draught (d) = <i>25.92</i> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <i>24.96</i> Addition for Winter North Atlantic Freeboard (if required) =	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 = $\frac{\Delta}{40T}$ inches =	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.696 \times .684 + .68}{1.86} = \frac{.475 + .68}{1.86} = \frac{1.155}{1.86} = .62$ <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr><td>Depth Correction ...</td><td>...</td><td>...</td></tr> <tr><td>Deduction for superstructures ...</td><td>...</td><td>...</td></tr> <tr><td>Sheer correction ...</td><td>...</td><td>...</td></tr> <tr><td>Round of Beam correction ...</td><td>...</td><td>...</td></tr> <tr><td>Correction for Thickness of Deck amidships ...</td><td>...</td><td>...</td></tr> <tr><td>Other corrections, scantlings, etc. ...</td><td>...</td><td>...</td></tr> <tr><td>Summer Freeboard =</td><td><i>36.21</i></td><td><i>36.93</i></td></tr> </tbody> </table>		+	-	Depth Correction	Deduction for superstructures	Sheer correction	Round of Beam correction	Correction for Thickness of Deck amidships	Other corrections, scantlings, etc.	Summer Freeboard =	<i>36.21</i>	<i>36.93</i>
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:

Tropical Fresh Water Line above Centre of Disc
Fresh Water Line	„	„
Tropical Line	„	„
Winter Line	below	„
Winter North Atlantic Line	„	„

Tropical Fresh Water Freeboard
Fresh Water	„	„
Tropical	„	„
Winter	„	„
Winter North Atlantic	„	„