

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Index. No. **17768**  
(For London Office only.)

Computation of Freeboard for Steamer, ~~Sailing Ship, Tanker~~

having Forecastle Bridge House Raised Quarter Deck Port of Survey \_\_\_\_\_

Date of Survey 21<sup>st</sup> June 1932

(Type of Superstructures.)

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
<b>LOKE</b>	<u>Sveadan Stockholm</u>	<u>4468</u>	<u>1233</u>	<u>1905/5</u>

Name of Surveyor \_\_\_\_\_

Particulars of Classification +100 A1

Dimensions: Length 230 Breadth 34.24 Depth 18.29

displacement at moulded draught = 85 per cent. of moulded depth \_\_\_\_\_ tons

Percent of fineness for use with Tables 765

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Depth ... .. <u>18.29</u>	(a) Where D is greater than Table depth (D - Table depth) R = <u>+5.307</u> ✓	Moulded Breadth (B) _____
Table ... .. <u>04</u>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = _____	Standard Round of Beam = $\frac{B \times 12}{50} =$ _____
on exposed deck (S) = _____		Ship's Round of Beam = _____
		Difference _____
Depth for Freeboard (D) = <u>18.33</u> ✓	If restricted by superstructures _____	Restricted to _____
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L}\right) =$ <u>-0.2</u> ✓

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
enclosed ...						Standard Height of Superstructure <u>6.00</u> ✓
overhang ...						" " R.Q.D. <u>3.87</u> ✓
enclosed ...	<u>79.50</u>	<u>79.50</u>	<u>2'-6"</u>	<u>25</u> <u>3.87</u>	<u>51.36</u>	Deduction for complete superstructure <u>29.00</u> ✓
overhang ...						Percentage covered $\frac{S}{L} =$ <u>71.85</u> ✓
enclosed ...	<u>57.25</u>	<u>51.52</u>	<u>7'-0"</u>		<u>51.52</u>	" " $\frac{S_1}{L} =$ <u>69.36</u> ✓
overhang aft ...						" " $\frac{E}{L} =$ <u>57.12</u> ✓
overhang forward ...						Percentage from Table, Line A. (corrected for absence of forecastle (if required))
closed ...	<u>28.50</u>	<u>28.50</u>	<u>7'-0"</u>		<u>28.50</u>	Percentage from Table, Line B. (corrected for absence of forecastle (if required)) <u>Timber 73.70</u> ✓
thang ...						Interpolation for bridge less than 2L (if required)
at ...						Deduction = <u>29.00</u> x <u>73.7</u> = <u>21.37</u> ✓
forward ...						
opening aft ...						
" forward						
Total ...	<u>165.25</u>	<u>159.52</u>			<u>131.38</u>	

### SHEER CORRECTION.

	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
...		1					1		
om A.P. ...		4					4		
" ...		2					2		
ships ...		4					4		
om F.P. ...		2					2		
" ...		4					4		
... ..		1					1		
Total ...									

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{75 - S}{2L} \right) =$  -1.16 ✓

If limited 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)
Correction for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient
Depth to Freeboard Deck = <u>18.33</u> ✓	$\Delta =$	Depth Correction ... .. <u>5.31</u> ✓
Summer freeboard = <u>1.16</u> ✓	Tons per inch immersion at summer load water line	Deduction for superstructures ... .. <u>21.37</u> ✓
Moulded draught (d) = <u>17.17</u> ✓	T =	Sheer correction ... .. <u>1.16</u> ✓
Correction for Tropical freeboard and addition for	Deduction = $\frac{\Delta}{40T}$ inches	Round of Beam correction ... .. <u>0.2</u> ✓
Winter freeboard = $\frac{d}{4}$ inches = <u>4.29</u> ✓	<u>109 mm.</u> ✓	Correction for Thickness of Deck amidships
Correction for Winter North Atlantic Freeboard (if required) = $\frac{d}{3}$ = <u>5.72</u> ✓		Other corrections, scantlings, etc. ... .. <u>89</u> ✓
		<u>6.28</u> <u>22.55</u> <u>16.35</u> ✓
		Summer Freeboard = <u>13.93</u> ✓

### SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

	Summer	Winter	Winter North Atlantic
TIMBER Tropical Fresh Water Line above Centre of Disc ...	<u>353 mm.</u>		
" Fresh Water Line " " ...	<u>244</u> ✓		
" Tropical Line " " ...	<u>244</u> ✓		
" Winter Line below " " ...	<u>10</u> ✓		
" Winter North Atlantic Line " " ...	<u>223</u> ✓		
" SUMMER ABOVE	<u>135</u> ✓		

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Marking Form received  
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