

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker having <u>Prop. Bridge & Forecastle</u>		Port of Survey _____ Date of Survey <u>June 1st 1932</u> Name of Surveyor _____ Particulars of Classification <u>+100A1.</u>	
(Type of Superstructures.)			
Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage
<u>WILLIAM.</u>	<u>Swedish</u> <u>Trelleborg</u>	<u>7255</u>	<u>2016</u>
Date of Build		<u>1924/10.</u>	
Moulded Dimensions: Length	Breadth	Depth	<u>20.62.</u>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons			
Coefficient of fineness for use with Tables _____			
Depth for Freeboard (D) Moulded depth Stringer plate Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <u>20.67</u>		Depth correction (a) Where D is greater than Table depth (D—Table depth) R = <u>4.48.</u> (b) Where D is less than Table depth (if allowed) (Table depth—D) R = _____ If restricted by superstructures	
Round of Beam correction Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = _____ Difference _____ Restricted to _____ Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <u>- .06</u>			

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 ...					
File enclosed ...					
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ forward ...					
Total ...					

Standard Height of Superstructure _____

„ „ R.Q.D. _____

Deduction for complete superstructure 33.858.

Percentage covered $\frac{S}{L} = 39.86.$

„ „ $\frac{S_1}{L} = 39.14.$

„ „ $\frac{E}{L} = 39.14. ✓$

Percentage from Table, Line A. Inter 62.07. ✓
(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 = 21.02. ✓

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
$\frac{1}{6}$ L from A.P. ...		4				4	
$\frac{2}{6}$ L " ...		2				2	
Amidships ...		4				4	
$\frac{2}{6}$ L from F.P. ...		2				2	
$\frac{1}{6}$ L " ...		4				4	
F.P.		1				1	
Total							

$$\frac{\text{Mean actual sheer aft}}{\text{Mean standard sheer aft}} =$$

$$\frac{\text{Mean actual sheer forward}}{\text{Mean standard sheer forward}} =$$

$$\frac{\text{Length of enclosed superstructure}}{L} \text{ forward of amidships} =$$

" " aft of " "
=

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

If limited on account of midship superstructure.

+ 14.

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>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>Tons per inch immersion at summer load water line</p> <p>T =</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient</p>								
<p>Depth to Freeboard Deck = <u>20.67</u> Ft.</p> <p>Summer freeboard = <u>2.08</u></p> <p>Moulded draught (d) = <u>18.59</u></p>	<p>$\Delta =$</p> <p>Tons per inch immersion at summer load water line</p> <p>T =</p>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <th style="width: 50%;">+</th> <th style="width: 50%;">-</th> </tr> <tr> <td>4.48</td> <td>21.02</td> </tr> <tr> <td>14</td> <td>06</td> </tr> <tr> <td>4.62</td> <td>21.08</td> </tr> </table>	+	-	4.48	21.02	14	06	4.62	21.08
+	-									
4.48	21.02									
14	06									
4.62	21.08									
<p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>4.65</u> 1187</p> <p>Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3}$ = <u>6.20</u> 1577</p>	<p>Deduction = $\frac{\Delta}{40T}$ inches</p> <p>=</p>	<p>Depth Correction 4.48</p> <p>Deduction for superstructures 21.02</p> <p>Sheer correction 14</p> <p>Round of Beam correction 06</p> <p>Correction for Thickness of Deck amidships ...</p> <p>Other corrections, scantlings, etc.</p> <p>Summer Freeboard = <u>24.95</u></p>								

TIMEBER SUMMER FREEBOARD amidships from Centre of ~~Dis~~ to top of Deck Line, ~~Wood~~, Steel, Deck:—

TIMBER	Tropical Fresh Water Line above Centre of Disc ...	529	TIMBER	Tropical Fresh Water Freeboard ...	398
"	Fresh Water Line " " ...	411	"	Fresh Water " " ...	516
"	Tropical Line " " ...	411	"	Tropical " " ...	516
"	Winter Line below above " " ...	136	"	Winter " " ...	791
"	Winter North Atlantic Line " below " " ...	174	"	Winter North Atlantic " " ...	1101
"	SUMMER above " " ...	2937	"	SUMMER above " " ...	1101

5m,3,32

✓ MAKING FUR

RECEIVED 21 JUN 1937

937 MARKING FORM
- 2 FEB 1935

RECEIVED

© 202

FORM
- 2 FEB 1935