

Amended Computation

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. **24642**
(For London Office only.)
 Computation of Freeboard for Steamer, Sailing Ship, Tanker
 having POOP, RAISED QUARTER DECK & FORECASTLE.

Port of Survey

Date of Survey 18-8-32.

Name of Surveyor

Particulars of Classification +100 A1.
 (Type of Superstructures.)

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
<u>ANNALAND</u>	<u>DUTCH</u> <u>ROTTERDAM.</u>		<u>2248</u>	<u>1916/8</u>

Dimensions: Length 82.90 Breadth 12.14 Depth 6.343
 Draft at moulded draught = 85 per cent. of moulded depth 4316 ^{M³}
 Tonnage for use with Tables 495 ^{tons}

Freeboard (D)

Depth correction

Round of Beam correction

... .. <u>6.343</u>	(a) Where D is greater than Table depth (D - Table depth) R = <u>830</u> <u>8.33</u> (<u>6.356</u> - <u>5.526</u>) / <u>20.935</u> = <u>145</u>	Moulded Breadth (B) <u>12.14</u> Standard Round of Beam = $\frac{B \times 12}{50}$ = <u>243</u> Ship's Round of Beam = <u>254</u> Difference <u>11</u> Restricted to <u>excess</u> Correction = $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L})$ = $\frac{11}{4} \times 0.3391$ = <u>(-1)</u>
... .. <u>13</u>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	
Freeboard (D) = <u>6.356</u>	If restricted by superstructures	

DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
<u>20.89</u>	<u>20.89</u>	<u>2210</u>	<u>✓</u>	<u>20.89</u>
<u>25.67</u>	<u>25.67</u>	<u>1295</u>	<u>1295/1310</u>	<u>25.38</u>
<u>7.64</u>	<u>7.64</u>	<u>2134</u>	<u>✓</u>	<u>7.64</u>
<u>.59</u>	<u>.59</u>	<u>"</u>	<u>✓</u>	<u>.59</u>
<u>54.79</u>	<u>54.79</u>			<u>54.50</u>

Standard Height of Superstructure 1899" " R.Q.D. 1310Deduction for complete superstructure 844Percentage covered $\frac{S}{L} = \frac{66.09}{100}$ " " $\frac{S_1}{L} = \frac{66.09}{100}$ " " $\frac{E}{L} = \frac{65.74}{100}$ Percentage from Table, Line A. 55.76
(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 = 55.76 × 844 = 471

SHEER CORRECTION.

S	Product	Actual Ordinate	Effective Ordinate	S	Product
1	<u>945</u>	<u>947</u>	<u>947</u>	1	<u>947</u>
4	<u>1680</u>	<u>339</u>	<u>339</u>	4	<u>1356</u>
2	<u>210</u>	<u>19</u>	<u>19</u>	2	<u>38</u>
4	<u>-</u>	<u>-</u>	<u>-</u>	4	<u>-</u>
2	<u>420</u>	<u>234</u>	<u>234</u>	2	<u>468</u>
4	<u>3356</u>	<u>831</u>	<u>831</u>	4	<u>3324</u>
1	<u>1889</u>	<u>2186</u>	<u>2186</u>	1	<u>2186</u>
	<u>8500</u>				<u>8319</u>

Mean actual sheer aft = .802
Mean standard sheer aftMean actual sheer forward = excess
Mean standard sheer forwardLength of enclosed superstructure forward of amidships = } sheer deficient
" " aft of " = }

S	A.
<u>945</u>	<u>947</u>
<u>1260</u>	<u>1017</u>
<u>315</u>	<u>57</u>
<u>2520</u>	<u>2021</u>

Difference between sums of products $(\frac{S}{2L} - \frac{S_1}{2L}) = \frac{181}{18} - \frac{4196}{18} = \frac{181 - 4196}{18} = \frac{-4015}{18} = -223.06$

If limited to maximum allowance of 1½ ins. per 100 ft.

Freeboard.

Deduction for Fresh Water.

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.495 + .68}{1.36} = \frac{1.175}{1.36}$

+	-
Depth Correction <u>145</u>	
Deduction for superstructures <u>471</u>	
Sheer correction <u>4</u>	
Round of Beam correction <u>1</u>	
Correction for <u>RAISED QUARTER</u> Deck amidships <u>1295</u>	
Other corrections, scantlings, etc.	
<u>1444</u>	<u>472</u> (+)
Summer Freeboard = <u>1991</u>	

Summer freeboard

Moulded draught (d) = 5661

Tropical freeboard and addition for

Freeboard = 118Addition for Winter North Atlantic Freeboard (if required) = 51Summer Freeboard amidships from Centre of Disc to top of Deck Line, RAISED QUARTER, Steel Deck: 199 c.M.Tropical Fresh Water Line above Centre of Disc ... 25 c.M.Fresh Water Line " " ... 13 c.M.Tropical Line " " ... 12 c.M.Winter Line below " " ... 12 c.M.Winter North Atlantic Line " " ... 17 c.M.Tropical Fresh Water Freeboard ... 144Fresh Water " " ... 186Tropical " " ... 184Winter " " ... 211Winter North Atlantic " " ... 216

MARKING FORM

RECEIVED 28 APR 1934

RECEIVED 19 OCT 1932