

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, ~~EXHIBIT C-100~~)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
RUNMARÖ	7601	Swedish Stockholm	2887	1912 10	Stockholm
Moulded Dimensions: Length 314.0 ✓ Breadth 46.33 ✓ Depth 23.46 ✓ Moulded displacement at moulded draught = 85 per cent. of moulded depth 6615 tons Coefficient of fineness for use with Tables .798 ✓					Date 10 June 12th June 1945. Surveyor XXXXXX G.Hjernqvist Particulars of Classification +100A1

<p>Depth for Freeboard (D).</p> <p>Moulded depth</p> <p>Plating on exposed deck</p> <p>T $\left(\frac{L-S}{L} \right) =$</p> <p>Depth for Freeboard (D) = 23.50</p>	<p>Depth correction.</p> <p>(a) Where D is greater than Table depth (D—Table depth) R = + 6.21 ✓</p> <p>(b) Where D is less than Table depth (if allowed) (Table depth—D) R =</p> <p>If restricted by superstructures</p>	<p>Round of Beam correction.</p> <p>Moulded Breadth (B)</p> <p>Standard Round of Beam = $\frac{B \times 12}{50} =$</p> <p>Ship's Round of Beam =</p> <p>Difference</p> <p>Restricted to</p> <p>Correction = $\frac{\text{Difference}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ -.05 ✓</p>
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DEDUCTION FOR SUPERSTRUCTURES

Mean Covered Length (S)	Equivalent Enclosed Length (S_1)	Height	Height Correction	Effective Length (E)
24.50	24.50	7.0		24.50
97.92	97.92	7.5		97.92
28.34	28.34	7.0		28.34
150.76	150.76			150.76

Standard Height of Superstructure..... **6.64** ✓

» » R.Q.D.

Deduction for complete superstructure **36.27** ✓

Percentage covered $\frac{S}{L} =$ **48.01** ✓

» » $\frac{S_1}{L} =$ **48.01** ✓

» » $\frac{E}{L} =$ **48.01** ✓

Percentage from Table, Line A.
(corrected for absence of forecastle [if required])

Percentage from Table, ~~Block~~ **Timber** **68.01** ✓
(corrected for absence of forecastle [if required])

Interpolation for bridge less than $\cdot 2L$ (if required)

Deduction = **36.27** \times **.6801** = **-24.67** ✓

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
.....		1				1	
from A. P. ...		4				4	
» ...		2				2	
ships		4				4	
rom F. P. ...		2				2	
» ...		4				4	
.....		1				1	
Total ...							

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

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

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

$$\text{aft of } =$$

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = -0.77 \checkmark$$

limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

<p>on for Tropical Freeboard.</p> <p>on for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = \checkmark 23.50 Ft.</p> <p>Summer freeboard = \checkmark 2.64</p> <p>Moulded draught (d) = \checkmark 20.86</p> <p>tion for Tropical freeboard 20.86</p> <p>20.86 = $\frac{d}{4}$ inches = 5.22=133mm.</p> <p>on for Winter 20.86 Freeboard (if required) = d/3=6.95 = 177 mm.</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>Δ = 6987 \checkmark</p> <p>Tons per inch immersion at summer load water line</p> <p>T = 30.46 \checkmark</p> <p>Deduction = $\frac{\Delta}{40 T}$ inches = 5.73 \checkmark 146 mm. \checkmark</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient 50.98</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;"></th> <th style="width: 25%; text-align: center;">+</th> <th style="width: 25%; text-align: center;">-</th> </tr> <tr> <td>Depth Correction</td> <td style="text-align: center;">\checkmark 6.21</td> <td></td> </tr> <tr> <td>Deduction for superstructures</td> <td></td> <td style="text-align: center;">24.67 \checkmark</td> </tr> <tr> <td>Sheer correction</td> <td></td> <td style="text-align: center;">.77 \checkmark</td> </tr> <tr> <td>Round of Beam correction</td> <td></td> <td style="text-align: center;">.05 \checkmark</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></td> <td style="text-align: center;">\checkmark 6.21</td> <td style="text-align: center;">\checkmark 25.49</td> </tr> <tr> <td></td> <td colspan="2" style="text-align: right;">Summer Freeboard = 19.28 \checkmark</td> </tr> <tr> <td></td> <td colspan="2" style="text-align: right;">31.70 \checkmark</td> </tr> </table>		+	-	Depth Correction	\checkmark 6.21		Deduction for superstructures		24.67 \checkmark	Sheer correction77 \checkmark	Round of Beam correction05 \checkmark	Correction for Thickness of Deck amidships ...			Other corrections, scantlings, etc.				\checkmark 6.21	\checkmark 25.49		Summer Freeboard = 19.28 \checkmark			31.70 \checkmark	
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SUMMER FREEBOARD amidships ~~from keel~~ to top of Deck Line, ~~Deck~~ Steel, Deck: _____

Timber				Steel Deck			
	Tropical Fresh Water Line	above	Centre of Disc	590 mm.	Tbr.	Tropical Fresh Water Freeboard	805 mm.
	Fresh Water Line	"	"	457 mm.	"	Fresh Water	526 mm.
	Tropical Line	"	"	444 mm.	"	Tropical	659 mm.
	Winter Line	max above	"	134 mm.	"	Winter	672 mm.
	Winter North Atlantic Line	below	"	177 mm.	"	Winter North Atlantic	982 mm.
	Summer Line	above	"	311 mm.			1293 mm.

150.76

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