

2nd Propose alteration in ~~Length~~ length  
See comp 27.3.46.

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

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <b>ARMILLA</b>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <b>337.0</b> Breadth <b>50.0</b> Depth <b>19.25</b>					Date of Survey <b>10.5.46</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature
Coefficient of fineness for use with Tables <b>.804 estimated (See ans)</b>					Particulars of Classification

<b>DEPTH FOR FREEBOARD (D).</b> Moulded depth ... <b>19.25</b> Stringer plate ... <b>.04</b> Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <b>19.29</b>	<b>DEPTH CORRECTION.</b> (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 = $(22.47 - 19.29) 2.592 = -8.24$ $3.18 - 8.24 \times 5.5 = -6.60 - 6.87$ If restricted by superstructures	<b>ROUND OF BEAM CORRECTION.</b> Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = <b>Stansant</b> Difference Restricted to Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S}{L} \right) =$ <b>Nie</b>
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### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>i</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed	88.17	88.17	5.5	—	88.17	Standard Height of Superstructure <b>6.87</b>
" overhang						" " R.Q.D. <b>5.160</b>
R.Q.D. enclosed						Deduction for complete superstructure <b>37.80</b>
" overhang						Percentage covered $\frac{S}{L} =$ <b>40.51</b>
Bridge enclosed						" " $\frac{S_i}{L} =$ <b>29.49</b>
" overhang aft						" " $\frac{E}{L} =$ <b>71.72</b>
" overhang forward						Percentage from Table, Line A. <b>65.11</b> Steamer
F'cle enclosed <i>equi</i>	48.35	48.35	7.5		48.35	(corrected for absence of forecastle (if required))
" overhang						Percentage from Table, Line B.
Trunk aft		131.37	5.5	5.5/6.87	105.17	(corrected for absence of forecastle (if required))
" forward						Interpolation for bridge less than .2L (if required)
Tonnage opening aft						Deduction = <b>37.80 x 65.11 = -24.61</b>
" " forward						
Total	136.52	267.89			241.61	

### SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	43.7	1				1	
L from A.P. ...		4				4	
L " ...		2				2	
amidships ...		4				4	
L from F.P. ...		2				2	
L " ...		4				4	
F.P. ...		1				1	
Total			393.30				244.00

Mean actual sheer aft = **<1**  
 Mean standard sheer aft = **<1**  
 Mean actual sheer forward = **<1**  
 Mean standard sheer forward = **<1**  
 Length of enclosed superstructure forward of amidships = **Deficient**  
 " " aft of " = **sheer**

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{149.30}{18} (.75 - .2026) = +4.54$   
 If limited on account of midship superstructure. **5474** If limited to maximum allowance of 1½ ins. per 100 ft.

<b>Deduction for Tropical Freeboard.</b> Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <b>19.29</b> Summer freeboard = <b>2.58</b> Moulded draught (d) = <b>16.71</b> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = Addition for Winter North Atlantic Freeboard (if required)=	<b>Deduction for Fresh Water.</b> Displacement in salt water at summer load water line $\Delta =$ Tons per inch immersion at summer load water line $T =$ Deduction = $\frac{\Delta}{40 T}$ inches =	<b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required) Correction for coefficient <b>1.36</b> <table border="1"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr> <td>Depth Correction</td> <td></td> <td>6.60</td> </tr> <tr> <td>Deduction for superstructures</td> <td></td> <td>24.61</td> </tr> <tr> <td>Sheer correction</td> <td>4.54</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></td> <td><b>+54.31</b></td> <td><b>-26.67</b></td> </tr> </tbody> </table> Summer Freeboard = <b>31.04</b>		+	-	Depth Correction		6.60	Deduction for superstructures		24.61	Sheer correction	4.54		Round of Beam correction			Correction for Thickness of Deck amidships			Other corrections, scantlings, etc.				<b>+54.31</b>	<b>-26.67</b>
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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	...	Tropical Fresh Water Freeboard	...
Fresh Water Line	" "	Fresh Water	"
Tropical Line	" "	Tropical	"
Winter Line below	" "	Winter	"
Winter North Atlantic Line	" "	Winter North Atlantic	"



A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Check in length.

0-7	7x2	0'-8"
7-31	24x2.5	14-
31-33	2x2	60-
33-36	3x2.5	4-
36-39	3x2'-8	7'-6"
39-		8'-

See previous comp.

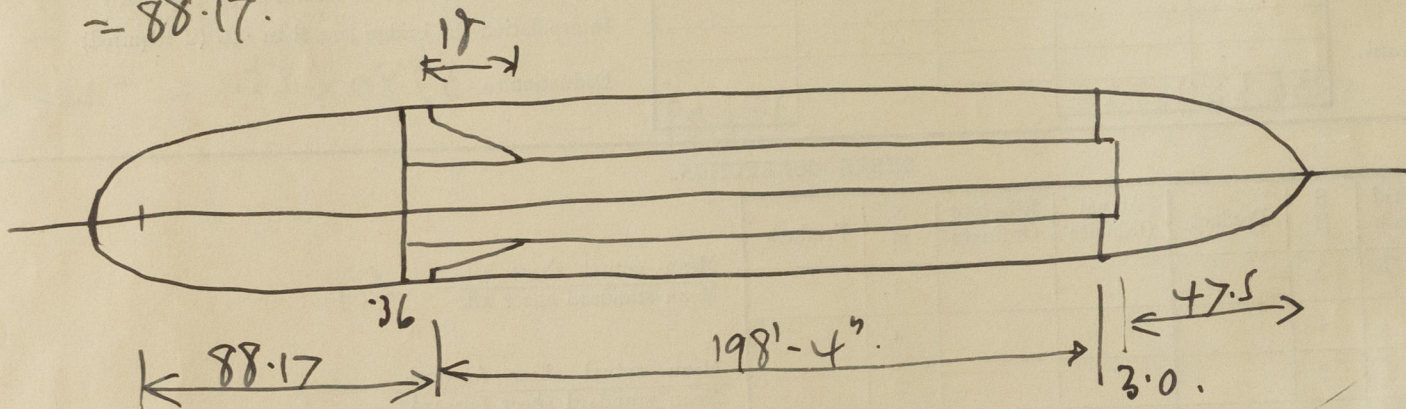
5590  
744

$$C_b = \frac{62.34 \times 35}{337 \times 50 \times 19.25 \times 8.5} = .804$$

Roof 16-6  
61-6  
78-  
7-6

To frame 36 85-6  
To frame 37 + 2-8  
88'-4"  
= 88.17.

Foreale 47.5  
.85  
48.35  
50.5  
+ 2.15  
198.33  
Trunk 200.48



88.17  
200.48  
48.35  
337.00

$$\begin{aligned} \text{Trunk } 18 \times 32 \times 49 &= 14.58 \\ \frac{2 \times 50}{182.48 \times 32} &= 116.79 \\ \frac{50}{131.37} \end{aligned}$$

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



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Foundation