

MERMAID  
47008  
All lines marked  
from & EP 205-43rd  
Aft side to & Hatch  
205.8121

Rpt. C.11 (Comp.)

# LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

## SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

F.27014  
For LONDON OFFICE ONLY  
Received  
Index No.  
Govt. Copy  
Owners C11

Ship's Name <b>"STELLA"</b>	Official Number <b>302778</b>	Nationality and Port of Registry <b>BRITISH LONDON</b>	Gross Tonnage <b>1425</b>	Date of Build <b>1961</b>	Port of Survey <b>COWES (SOUTHAMPTON)</b>
Moulded Dimensions: Length <b>215'-4 3/4"</b> Breadth <b>37'-6 1/4"</b> Depth <b>23'-6 1/4"</b>					Date of Survey <b>WHILST BUILDING</b>
Freeboard Length <b>206.78'</b>					Surveyor's Signature <i>J. B. Bailey</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) <b>3085</b> tons					Particulars of Classification <b>100A1</b>
Coefficient of fineness for use with Tables <b>.695 .696</b>					<b>LIGHTHOUSE TENDER.</b>

<b>DEPTH FOR FREEBOARD (D).</b>	<b>DEPTH CORRECTION.</b>	<b>ROUND OF BEAM CORRECTION.</b>
Moulded depth ... <b>23.52</b>	(a) Where D is greater than Table depth (D-Table depth) R = <b>(23.67 - 13.78) 1.590 = 15.73</b>	Moulded Breadth (B) <b>37'-6 1/4"</b>
Stringer plate ... <b>.03</b>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = <b>9.89</b>	Standard Round of Beam = $\frac{B \times 12}{50} =$ <b>9"</b>
PART Wood Sheathing on exposed deck <b>(2 1/2")</b>		Ship's Round of Beam = <b>9"</b>
$T \left( \frac{L-S}{L} \right) = \frac{21 \times 119.80}{206.78} =$ <b>.12</b>		Difference <b>NIL</b>
Depth for Freeboard (D) = <b>23.67</b>	If restricted by superstructures	Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <b>NIL</b>

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed						
" overhang						
R.Q.D. enclosed						
" overhang						
Bridge enclosed						
" overhang aft						
" overhang forward						
F'cle enclosed						
" overhang						
Trunk aft						
" forward						
Tonnage opening aft						
" forward						
Total						

Standard Height of Superstructure  
" " R.Q.D.  
Deduction for complete superstructure  
Percentage covered  $\frac{S}{L} =$   
" "  $\frac{S_1}{L} =$   
" "  $\frac{E}{L} =$   
Percentage from Table, Line A.  
(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 =

### SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	<b>30.68</b>	1		<b>30.68</b>	<b>24.38</b>	<b>24.38</b>	1		<b>24.38</b>
1/8 L from A.P.	<b>13.65</b>	4		<b>54.60</b>	<b>10.38</b>	<b>10.38</b>	4		<b>41.52</b>
2/8 L	<b>3.37</b>	2		<b>6.74</b>	<b>2.63</b>	<b>2.63</b>	2		<b>5.26</b>
Amidships	<b>0</b>	4		<b>0</b>	<b>0</b>	<b>0</b>	4		<b>0</b>
2/8 L from F.P.	<b>6.74</b>	2		<b>13.48</b>	<b>5.56</b>	<b>5.56</b>	2		<b>11.12</b>
1/8 L	<b>27.30</b>	4		<b>109.20</b>	<b>22.50</b>	<b>22.50</b>	4		<b>90.00</b>
F.P.	<b>61.36</b>	1		<b>61.36</b>	<b>50.75</b>	<b>50.75</b>	1		<b>50.75</b>
Total				<b>276.06</b>					<b>223.03</b>

Mean actual sheer aft  
Mean standard sheer aft = } **DEFICIENT**

Mean actual sheer forward  
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = } **DEFICIENT SHEER.**  
" " aft of " =

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75 - S}{2L} \right) = \frac{53.03}{18} \times .75 = +2.21"$   
If limited on account of midship superstructure. If limited to maximum allowance of 1 1/2 ins. per 100 ft.

<b>Deduction for Tropical Freeboard.</b> Addition for Winter and Winter North Atlantic Freeboard. <b>Top of No. 1 on</b> Ft. Depth to Freeboard Deck = <b>23.75</b> Summer freeboard = <b>10.75</b> Moulded draught (d) = <b>13.00</b> Keel allowance = Extreme draught = Deduction for Tropical freeboard and addition for = <b>3.25</b> Winter freeboard = $\frac{d}{4}$ inches = <b>3 1/4"</b> Addition for Winter North Atlantic Freeboard (if required) = <b>3 1/4 + 2 = 5 1/4"</b>	<b>Deduction for Fresh Water.</b> Displacement in salt water at summer load water line $\Delta =$ <b>1800.5</b> Tons per inch immersion at summer load water line $T =$ <b>15.03</b> Deduction = $\frac{\Delta}{40 T}$ inches <b>2.99"</b> <b>3.8"</b>	<b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required) <b>27.35</b> Correction for coefficient $\frac{1.376}{1.36}$ <b>27.67</b> Depth Correction ... <b>15.73</b> Deduction for superstructures ... Sheer correction ... <b>2.21</b> Round of Beam correction ... Correction for Thickness of Deck amidships ... <b>1.08</b> Other corrections, scantlings, etc. <b>To</b> ... <b>82.31</b> <b>CORRESPOND TO A SUMMER MOULDED DRAFT OF 13'-0"</b> Summer Freeboard = <b>129.00</b>
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### SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel Deck :-

5- SEP 1961	Tropical Fresh Water Line above Centre of Disc	6"	Tropical Fresh Water Freeboard	16'-9"
	Fresh Water Line	3"	Fresh Water	16'-3"
	Tropical Line	3" RESTRICTED	Tropical	16'-6"
	Winter Line below	3 1/4"	Winter	11'-0 1/4"
	Winter North Atlantic Line	5 1/4"	Winter North Atlantic	11'-2 1/4"

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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.

*Qum*

Trade of ship

LIGHTHOUSE TENDER

Names of sister ships

"MERMAID" (YARD N° 2002) "SIREN" (YARD N° 2003)

Builder's name and yard number

J. S. WHITE & CO LTD, COWES I. OF W. - YARD N° 2007.

Owners

THE CORPORATION OF TRINITY HOUSE

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List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)

- 1 SCANTLING SECTIONS
- 2 PROFILE & DECKS.
- 3 GENERAL ARRANGEMENT (2 PLANS)



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