

PRELIMINARY

Rpt. C.11 (Comp.)

For LONDON OFFICE ONLY

# LLOYD'S REGISTER OF SHIPPING

## SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received .....

Index No. ....

Govt. Copy .....

Owners C11 .....

Ship's Name <b>LETIZIA. MONTANARI.</b>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <b>476.96</b> Breadth <b>68.00</b> Depth <b>36.00</b>					Date of Survey <b>2.9.59</b>
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth <b>21467 tons</b> (excluding bossing)					Particulars of Classification <b>+100A1</b>
Coefficient of fineness for use with Tables <b>.757</b>					

<b>DEPTH FOR FREEBOARD (D).</b> Moulded depth ... <b>36.00</b> Stringer plate ... <b>.12 .07</b> Wood Sheathing on exposed deck <i>Dubler</i> $T \left( \frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <b>36.07</b>	<b>DEPTH CORRECTION.</b> (a) Where D is greater than Table depth (D—Table depth) R = <b>+12.87</b> (b) Where D is less than Table depth (if allowed) (Table depth—D) R = 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 = Difference Restricted to Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <b>-12</b>
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## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure <b>7.5</b>
" overhang						" " R.Q.D.
R.Q.D. enclosed						Deduction for complete superstructure <b>42.00</b>
" overhang						Percentage covered $\frac{S}{L} =$
Bridge enclosed						" $\frac{S_1}{L} =$ <b>30.97</b>
" overhang aft						" $\frac{E}{L} =$
" overhang forward						Percentage from Table, Line A.
F'cle enclosed						(corrected for absence of forecastle (if required)) <b>15.08 15.82</b>
" overhang						Percentage from Table, Line B.
Trunk aft						(corrected for absence of forecastle (if required))
" forward						Interpolation for bridge less than 2L (if required)
Tonnage opening aft						Deduction = <b>42.00 x 15.08 = 6.33</b>
" " forward						<b>15.82 - 6.64 = 9.18</b>
Total	<b>147.7</b>	<b>147.7</b>			<b>147.7</b>	31 6.62

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	<b>57.70</b>	1			<b>45.75</b>		1		
$\frac{1}{4}L$ from A.P.		4			<b>20.50</b>		4		
$\frac{3}{4}L$ "		2			<b>5.38</b>		2		
Amidships	○	4	○	○	○	○	4	○	○
$\frac{3}{4}L$ from F.P.		2			<b>6.75</b>		2		
$\frac{1}{4}L$ "		4			<b>26.75</b>		4		
F.P.	<b>115.39</b>	1			<b>62.</b>		1		
Total				<b>579.20</b>					<b>321.00</b>

Mean actual sheer aft =  
Mean standard sheer aft =

Mean actual sheer forward =  
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =  
" " aft of " =

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{198.2}{18} \left( .75 - \frac{1548}{1582} \right) = +6.33$   
If limited on account of midship superstructure.

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100ft.

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **36.07**  
 Summer freeboard = **9.44**  
 Moulded draught (d) = **26.63**  
 Keel allowance **RI = 26.75**  
 Extreme draught **RI = 26.75**  
 Deduction for Tropical freeboard and addition for =  
 Winter freeboard =  $\frac{d}{4}$  inches =  
 Addition for Winter North Atlantic Freeboard (if required) =

## Deduction for Fresh Water.

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

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **757.68 : 1437.36**  
**1.36**  
**95.40**  
**100.80**

Depth Correction ... **12.87**  
 Deduction for superstructures ... **6.33 6.64**  
 Sheer correction ... **6.55**  
 Round of Beam correction ... **0.12**  
 Correction for Thickness of Deck amidships ...  
 Other corrections, scantlings, etc. ... **12.60**  
**19.36 6.45**  
**12.91**

Summer Freeboard = **113.71 113.40**

## 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	"

