

AMENDED

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received

Index No.

Govt. Copy

Owners C11

Ship's Name <i>PETITE HERMINE</i>	Official Number	Nationality and Port of Registry <i>BRITISH LONDON.</i>	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <i>417.50'</i> Breadth <i>56.87</i> Depth <i>37.33</i>					Date of Survey <i>7.6.56.</i>
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) <i>16562</i> tons					Particulars of Classification <i>BS*</i>
Coefficient of fineness for use with Tables <i>.769</i>					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth <i>37.33</i>	(a) Where D is greater than Table depth (D-Table depth) R = <i>(37.38 - 27.83) 3.0 = 28.65</i>	Moulded Breadth (B) <i>56.87</i>
Stringer plate <i>.05</i>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = <i>9.55</i>	Standard Round of Beam = $\frac{B \times 12}{50} =$ <i>13.65</i>
Wood Sheathing on exposed deck	If restricted by superstructures	Ship's Round of Beam = <i>14.00</i>
$T \left(\frac{L-S}{L} \right) =$		Difference <i>.35</i>
Depth for Freeboard (D) = <i>37.38</i>		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <i>.35 \times 1 = -.09</i>

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
Fore 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 =

N/A.

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	<i>51.75</i>	1		<i>51.75</i>	<i>54.75</i>	<i>54.75</i>	1		<i>54.75</i>
$\frac{1}{2}$ L from A.P.	<i>23.03</i>	4		<i>92.12</i>	<i>23.50</i>	<i>23.50</i>	4		<i>94.00</i>
$\frac{2}{5}$ L "	<i>5.69</i>	2		<i>11.38</i>	<i>5.75</i>	<i>5.75</i>	2		<i>11.50</i>
Amidships	0	4		0	0	0	4		0
$\frac{3}{5}$ L from F.P.	<i>11.38</i>	2		<i>22.76</i>	<i>11.62</i>	<i>11.62</i>	2		<i>23.24</i>
$\frac{1}{2}$ L "	<i>46.06</i>	4		<i>184.24</i>	<i>46.75</i>	<i>46.75</i>	4		<i>187.00</i>
F.P.	<i>103.50</i>	1		<i>103.50</i>	<i>105.50</i>	<i>105.50</i>	1		<i>105.50</i>
Total				<i>465.75</i>					<i>475.99</i>

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{102.4 \times .75}{18} = -.43$

If limited on account of midship superstructure.

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

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Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = *37.38*
 Summer freeboard = *9.79*
 Moulded draught (d) = *27.69*
 Keel allowance = *27.69*
 Extreme draught = *27.69*
 Deduction for Tropical freeboard and addition for = *27.69*

Winter freeboard = $\frac{d}{4}$ inches = *6.90 = 7"*

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
 $= \frac{14.14}{40 \times 7.4} = .47$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc. To...

compared to a summer load

draught of 27.60 (27.61 Actual)

Summer Freeboard = *117.50*Summer Freeboard = *117.50*Summer Freeboard = *117.50*Summer Freeboard = *117.50*Summer Freeboard = *117.50*Summer Freeboard = *117.50*Summer Freeboard = *117.50*Summer Freeboard = *117.50*Summer Freeboard = *117.50*Summer Freeboard = *117.50*Summer Freeboard = *117.50*Summer Freeboard = *117.50*Summer Freeboard = *117.50**26.19*

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, *Wood*, Steel, Deck :-
 Tropical Fresh Water Line above Centre of Disc ... *14.14*
 Fresh Water Line " " ... *27.69*
 Tropical Line " " ... *27.69*
 Winter Line below " " ... *27.69*
 Winter North Atlantic Line " " ... *27.69*

Tropical Fresh Water Freeboard *81.21*
 Fresh Water " *91.21*
 Tropical " *91.21*
 Winter " *101.21*
 Winter North Atlantic " *101.21*