

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name JACQUES - MARIE (EX - "HARALD")	Official Number	Nationality and Port of Registry BELGIAN ANTWERP.	Gross Tonnage	Date of Build 1921	Port of Survey
Moulded Dimensions: Length 65.530 M. Breadth 10363 M. Depth 4.890 M.					Date of Survey 16-6-48
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature <i>[Signature]</i>
Coefficient of fineness for use with Tables .85 (Assumed) ✓					Particulars of Classification 100 A1 (contemplated)

DEPTH FOR FREEBOARD (D). Moulded depth ... 4890 Stringer plate ... 16 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 4906 ✓	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = +74 m/m (b) Where D is less than Table depth (if allowed) (Table depth-D) R = ✓ If restricted by superstructures ✓	ROUND OF BEAM CORRECTION. Moulded Breadth (B) 10363 M. Standard Round of Beam = $\frac{B \times 12}{50} =$ 207 Ship's Round of Beam = 210 Difference Restricted to Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ NIL. ✓
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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 ...					
F'cle enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	46.714	45.836			45.836

Standard Height of Superstructure	1.830
" " R.Q.D.	1148
Deduction for complete superstructure	699
Percentage covered $\frac{S}{L} =$	71.29.
" " $\frac{S_1}{L} =$	69.95
" " $\frac{E}{L} =$	69.95
Percentage from Table, Line A. TIMBER.	81.47 ✓
(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 = 699 x .8147 = 569 m/m.	✓

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...		1				1	
$\frac{1}{6}L$ from A.P. ...		4				4	
$\frac{2}{6}L$ " ...		2				2	
Amidships ...		4				4	
$\frac{2}{6}L$ from F.P. ...		2				2	
$\frac{1}{6}L$ " ...		4				4	
F.P. ...		1				1	
Total ...			7198				10110

Mean actual sheer aft = **Excess.**
Mean standard sheer aft = **Excess.**

Mean actual sheer forward = **Excess.**
Mean standard sheer forward = **Excess.**

Length of enclosed superstructure forward of amidships = **.0839 L**
" " aft of " = **.7.1L.**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ **-64 m/m.**
If limited on account of midship superstructure. **YES** $\frac{1882}{2} \times -64 =$ **-59 m/m.** ✓ If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. ✓

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 4906 TIMBER Summer freeboard = 170 Moulded draught (d) = 4736 ✓ Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{48}$ inches = 99 m/m. Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{36}$ = 132 m/m.	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 = 100 m/m.	TABULAR FREEBOARD corrected for Flush Deck (if required) 653 ✓ Correction for coefficient $\frac{1.53}{1.36}$ 735 <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction</td> <td>74</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures</td> <td>-</td> <td>569</td> </tr> <tr> <td>Sheer correction</td> <td>-</td> <td>59</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>74</td> <td>628</td> </tr> </table> Summer Freeboard = 181		+	-	Depth Correction	74	-	Deduction for superstructures	-	569	Sheer correction	-	59	Round of Beam correction	-	-	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	-	-		74	628
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TIMBER SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

TIMBER Tropical Fresh Water Line above Centre of Disc	340	TIMBER Tropical Fresh Water Freeboard	170 m/m.
" Fresh Water Line	240	" Fresh Water	30
" Tropical Line	240	" Tropical	70
" Winter Line	10	" Winter	300
" Winter North Atlantic Line	150	" Winter North Atlantic	460
SUMMER LINE ABOVE	140		

23.6.1948
As previously arranged by Commanding Officer