

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. **20634**  
(For London Office only).HAVRE  
REPORT.N<sup>o</sup> 7875

Ship's Name <b>"ABEILLE N<sup>o</sup> 10"</b>	Official Number <b>V</b>	Nationality and Port of Registry <b>FRENCH HAVRE</b>	Gross Tonnage <b>197 Tons.</b>	Date of Build <b>1909 11 mo.</b>	Port of Survey <b>Cherbourg</b>
Moulded Dimensions: Length <b>106' 00"</b> Breadth <b>23' 00"</b> Depth <b>12' 75"</b>					Date of Survey <b>24.5.38</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature <i>F. Merlet</i>
Coefficient of fineness for use with Tables <b>assumed less than .68.</b>					Particulars of Classification <b>+ 100 A-1 for sailing purposes</b>

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... <b>12.75</b>	(a) Where D is greater than Table depth (D - Table depth) R = <b>(12.98 - 7.04) .815 = + 4.82"</b>	Moulded Breadth (B) <b>23' 0"</b>
Stringer plate ... <b>.03</b>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = <b>5.91</b>	Standard Round of Beam = $\frac{B \times 12}{50} =$ <b>5.52"</b>
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) = .25 \times \frac{86.50}{106.00} =$ <b>.20</b>	If restricted by superstructures <input checked="" type="checkbox"/>	Ship's Round of Beam = <b>5 3/4"</b>
Depth for Freeboard (D) = <b>12.98</b>		Difference <b>excess</b> = <b>.23"</b>
		Restricted to
		Correction = $\frac{\text{Diff.}}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <b>.23/4 = -.06"</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 ...					

*Flush Deck*

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.

SHEERS MEASURED ABOVE A LINE PARALLEL TO KEEL.

Station	Standard Ordinate	S	M	Product	Actual Ordinate PLOTTED	Effective Ordinate	S	M	Product
A.P. ...	<b>20.60</b>	1		<b>20.60</b>	<b>40"</b>	<b>20.60</b>	1		<b>20.60</b>
1/2 L from A.P. ...	<b>9.17</b>	4		<b>36.68</b>	<b>21"</b>	<b>9.17</b>	4		<b>36.68</b>
3/4 L " ...	<b>2.27</b>	2		<b>4.54</b>	<b>6 1/2"</b>	<b>2.27</b>	2		<b>4.54</b>
Amidships ...	-	4		-	<b>3"</b>	-	4		-
3/4 L from F.P. ...	<b>4.53</b>	2		<b>9.06</b>	<b>3 1/2"</b>	<b>1.50</b>	2		<b>3.00</b>
1/2 L " ...	<b>18.33</b>	4		<b>73.32</b>	<b>10 1/2"</b>	<b>10.50</b>	4		<b>42.00</b>
F.P. ...	<b>41.20</b>	1		<b>41.20</b>	<b>26 1/2"</b>	<b>26.50</b>	1		<b>26.50</b>
Total ...				<b>185.40</b>					<b>133.32</b>

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75 - S}{2L} \right) = \frac{52.08}{18} \times .75 = + 2.17"$

If limited on account of midship superstructure ☒

Mean actual sheer aft = **Excess**

Mean standard sheer aft = **Excess**

Mean actual sheer forward = **Deficient**

Mean standard sheer forward = **Deficient**

Length of enclosed superstructure forward of amidships = **7' 11"**

" " aft of " = **Deck**

Deduction for Tropical Freeboard.  
Addition for Winter and Winter North Atlantic Freeboard.

Ft.

Depth to Freeboard Deck = **13.03**

Summer freeboard = **1.16**

Moulded draught (d) = **11.87**

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 ☒

	+	-
Depth Correction ...	<b>4.82</b>	
Deduction for superstructures ...		
Sheer correction ...	<b>2.17</b>	
Round of Beam correction ...		<b>.06</b>
Correction for Thickness of Deck amidships ...	<b>.60</b>	
Other corrections, scantlings, etc. ...		
<b>7.59</b>	<b>.06</b>	<b>+ 4.53</b>

Summer Freeboard = **19.42" = 501/2"**

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, ~~Steel~~ Deck: -

EXISTING FREEBOARDS	Tropical Fresh Water Line above Centre of Disc	
REASSIGNED, BEING MORE FAVOURABLE THAN THOSE COMPUTED UNDER THE CONVENTION.	Fresh Water Line	<b>103 7/8"</b>
	Tropical Line	<b>78"</b>
	Winter Line below	<b>25"</b>
	Winter North Atlantic Line	<b>75"</b>

Tropical Fresh Water Freeboard	<b>250"</b>
Fresh Water	<b>275"</b>
Tropical	<b>328"</b>
Winter	<b>378"</b>
Winter North Atlantic	<b>428"</b>



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.

*No alterations that effect the freeboard have been made.*

*Havre. 29.3.38*

*J. Meles*

Trade of ship

*For Towing Services*

Names of sister ships

*✓*

Builder's name and yard number

*J. P. Renoldson & Sons South Shields*

Owners

*C<sup>e</sup> de Remorquage et de Sauvetage. "Les Abeilles"*

*HAVRE*

Fee *Fr* : *600*

*Exp* : *200.*



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