

Forecastle increased 1/4 ft. from space & forward then increased

C.11.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. _____
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having _____					Port of Survey _____	
(Type of Superstructures.) _____						
Ship's Name <i>Whom hester No. 596</i>		Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	
Date of Survey <i>4/12/34</i>						
Name of Surveyor _____						
Particulars of Classification _____						
Moulded Dimensions: Length <i>225</i> Breadth _____ Depth _____						
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons						
Coefficient of fineness for use with Tables _____						

Depth for Freeboard (D) Moulded depth Plating on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <i>16.54</i>	Depth correction (a) Where D is greater than Table depth (D-Table depth) R = <i>+ 2.66</i> (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) _____ Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = _____ Difference _____ Restricted to _____ Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{1.08}{4} \times 39.15 = -1.07$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	<i>✓ 99.50</i>	<i>99.50</i>	<i>7.5</i>		<i>99.50</i>	Standard Height of Superstructure _____
" overhang ...						" " R.Q.D. _____
R.Q.D. enclosed ...						Deduction for complete superstructure <i>28.5 ✓</i>
" overhang ...						Percentage covered $\frac{S}{L} = \frac{60.85}{60.85} = 1.0$
Bridge enclosed ...	<i>✓ 13.50</i>	<i>13.50</i>	<i>7.5</i>		<i>13.50</i>	" " $\frac{S_1}{L} = \frac{60.85}{60.85} = 1.0$
" overhang aft ...						" " $\frac{E}{L} = \frac{60.85}{60.85} = 1.0$
" overhang forward ...						Percentage from Table, Line A. <i>47.44 ✓</i>
Forecastle enclosed ...	<i>✓ 23.92</i>	<i>23.92</i>	<i>7.0</i>		<i>23.92</i>	(corrected for absence of forecastle (if required))
" 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 = <i>28.5 × 47.44 = -13.52 ✓</i>
" " forward ...						
Total ...	<i>136.92 ✓</i>				<i>136.92 ✓</i>	

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	
P. ...		1		<i>22.44</i>	<i>66.00</i>	1	<i>66.00</i>	Mean actual sheer aft =
from A.P. ...		4			<i>29.37</i>	4	<i>117.48</i>	Mean standard sheer aft =
" ...		2			<i>7.26</i>	2	<i>14.52</i>	Mean actual sheer forward =
amidships ...		4				4		Mean standard sheer forward =
from F.P. ...		2			<i>✓ 7.70</i>	2	<i>15.40</i>	Length of enclosed superstructure forward of amidships =
" ...		4			<i>✓ 31.15</i>	4	<i>124.60</i>	" " aft of " =
P. ...		1			<i>✓ 70.00</i>	1	<i>70.00</i>	
Total ...			<i>292.47</i>				<i>408.00</i>	

Correction = $\frac{\text{Difference between sums of products}}{18} = \frac{115.53}{18} = 6.42$ (if limited on account of midship superstructure. $2.86 \times \frac{102}{200} = -1.46$)

If limited to maximum allowance of 1½ ins. per 100 ft.

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

Depth to Freeboard Deck = _____ Ft.
Summer freeboard = _____
Moulded draught (d) = _____

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 ...	<i>✓ 2.66</i>	
Deduction for superstructures ...		<i>13.52 ✓</i>
Sheer correction ...		<i>1.46 ✓</i>
Round of Beam correction ...		<i>0.01 ✓</i>
Correction for Thickness of Deck amidships ...	<i>0.24</i>	
Other corrections, scantlings, etc. ...		
	<i>✓ 2.90</i>	<i>14.99 ✓</i>
Summer Freeboard =		<i>16.03 ✓</i>

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

Tropical Fresh Water Line above Centre of Disc ...
Fresh Water Line " " ...
Tropical Line " " ...
Winter Line below " " ...
Winter North Atlantic Line " " ...

Tropical Fresh Water Freeboard ...
Fresh Water " ...
Tropical " ...
Winter " ...
Winter North Atlantic " ...

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