

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index. No. \_\_\_\_\_  
(For London Office only).

Ship's Name <i>Barclay Curlew</i> <i>Yard No 677/8</i>	Official Number	Nationality and Port of Registry	Gross Tonnage <i>34.5</i>	Date of Build	Port of Survey
Moulded Dimensions: Length <i>420</i> Breadth <i>57.29</i> Depth <i>24.5</i>					Date of Survey <i>16.2.40</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature
Coefficient of fineness for use with Tables <i>assumed .76</i>			<i>.784</i>		Particulars of Classification <i>1000T With Plate</i>

<b>Depth for Freeboard (D).</b> Moulded depth ... <i>Virtual 26.50</i> Stringer plate ... <i>34.50</i> Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ <i>34.54</i> Depth for Freeboard (D) = <i>26.50</i>	<b>Depth correction.</b> (a) Where D is greater than Table depth (D-Table depth) R = <i>28.0</i> <i>(34.54 - 28.0) x 3 = + 19.62</i> <i>6.54</i> (b) Where D is less than Table depth (if allowed) (Table depth-D) R = <i>1.50</i> <i>(28.00 - 26.50) x 3 = - 4.50</i> 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 = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) =$
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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
„ overhang ...						„ „ R.Q.D.
R.Q.D. enclosed ...						Deduction for complete superstructure
„ overhang ...						Percentage covered $\frac{S}{L} =$
Bridge enclosed ...						„ $\frac{S_1}{L} =$
„ overhang aft ...						„ $\frac{E}{L} =$
„ overhang forward						Percentage from Table, Line A. (corrected for absence of forecastle (if required))
F'cle enclosed ...						Percentage from Table, Line B. (corrected for absence of forecastle (if required))
„ overhang ...						Interpolation for bridge less than .2L (if required)
Trunk aft ...						Deduction = <i>42.0</i>
„ forward ...						
Tonnage opening aft ...						
„ „ forward						
Total ...						

## SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	
A.P. ...		1				1		Mean actual sheer aft =
$\frac{1}{2}$ L from A.P. ...		4				4		Mean standard sheer aft =
$\frac{2}{2}$ L „ ...		2				2		Mean actual sheer forward =
Amidships ...		4				4		Mean standard sheer forward =
$\frac{2}{2}$ L from F.P. ...		2				2		Length of enclosed superstructure forward of amidships =
$\frac{1}{2}$ L „ ...		4				4		„ „ aft of „ =
F.P. ...		1				1		
Total ...								

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) =$  *50*

If limited on account of midship superstructure.

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

<b>Deduction for Tropical Freeboard.</b> <b>Addition for Winter and Winter North Atlantic Freeboard.</b> <i>34.54</i> <i>8.61</i> <i>25.93</i> Depth to Freeboard Deck = <i>26.50</i> Summer freeboard = <i>2.95</i> Moulded draught (d) = <i>23.55</i> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = Addition for Winter North Atlantic Freeboard (if required) =	<b>Deduction for Fresh Water.</b> 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 =	<b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required) <i>784 + 68 = 1.464</i> <i>1.28</i> <i>83.75</i> <i>76 + 0.8 = 1.44</i> <i>1.28</i> <i>1.36</i> Correction for coefficient $\frac{1}{2}$ Depth Correction ... <i>+19.62</i> Deduction for superstructures ... Sheer correction ... Round of Beam correction ... Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... Summer Freeboard = <i>35.37</i>
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## 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	„	„