

TIMBER.

Index. No. 16191
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey
having <i>Prop, Bridge & Sls.</i>					Date of Survey
(Type of Superstructures.)					Name of Surveyor
Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Particulars of Classification
<i>Ducido</i>	<i>Swedish Helsingborg</i>	<i>-</i>	<i>-</i>	<i>1903</i>	
Moulded Dimensions: Length <i>250.0</i> Breadth <i>34.0</i> Depth <i>21.14</i>					
Moulded displacement at moulded draught = 85 per cent. of moulded depth <i>3482</i> tons					
Coefficient of fineness for use with Tables <i>.995</i>					

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth <i>21.14</i>	(a) Where D is greater than Table depth (D-Table depth) R = <i>+ 8.43</i> ✓	Moulded Breadth (B)
Stringer plate <i>.04</i>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50}$ =
Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$ = ✓	If restricted by superstructures	Ship's Round of Beam =
Depth for Freeboard (D) = <i>21.21</i>		Difference
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L}\right)$ = <i>-.05</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					
„ enclosed					
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total					

Standard Height of Superstructure _____

„ „ R.Q.D. _____

Deduction for complete superstructure *31.00*

Percentage covered $\frac{S}{L}$ = *44.40*

„ „ $\frac{S_1}{L}$ = *44.40*

„ „ $\frac{E}{L}$ = *46.20* ✓

Percentage from Table, Line A.
(corrected for absence of forecastle (if required))

Percentage from Table, ~~Line B.~~ *Timber* *66.84* ✓
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = *31.00* x *.6684* = *-20.43*

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1					1		
$\frac{1}{8}$ L from A.P.		4					4		
$\frac{3}{8}$ L „		2					2		
Amidships		4					4		
$\frac{3}{8}$ L from F.P.		2					2		
$\frac{1}{8}$ L „		4					4		
F.P.		1					1		
Total									

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

„ „ aft of „ =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right)$ = *.06*

If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient
Depth to Freeboard Deck = <i>21.21</i>	Δ = <i>4010</i>	Depth Correction <i>8.43</i>
Summer freeboard = <i>1.92</i>	Tons per inch immersion at summer load water line	Deduction for superstructures <i>20.43</i>
Moulded draught (d) = <i>19.29</i>	T = <i>18.8</i>	Sheer correction <i>.06</i>
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <i>4.82</i> ✓	Deduction = $\frac{\Delta}{40 T}$ inches = <i>5.33</i>	Round of Beam correction <i>.05</i>
Addition for Winter North Atlantic Freeboard (if required) = $\frac{a}{3}$ = <i>6.43</i> ✓		Correction for Thickness of Deck amidships
		Other corrections, scantlings, etc.
		8.49 20.48 11.99
		Summer Freeboard = <i>23.04</i>

TIMBER SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—	<i>23.04</i> = <i>.585</i>
TIMBER Tropical Fresh Water Line above Centre of Disc <i>20.42</i> = <i>.526</i>	Tropical Fresh Water Freeboard <i>12.89</i> = <i>.328</i> ✓
Fresh Water Line <i>15.90</i> = <i>.404</i>	Fresh Water <i>14.41</i> = <i>.450</i> ✓
Tropical Line <i>15.39</i> = <i>.391</i>	Tropical <i>18.22</i> = <i>.463</i>
Winter Line <i>4.14</i> = <i>.105</i>	Winter <i>29.44</i> = <i>.449</i>
Winter North Atlantic Line „ below „ <i>6.60</i> = <i>.168</i>	Winter North Atlantic <i>40.21</i> = <i>1.023</i>
SUMMER	

W434-0046