

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. **29906**
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having **P, R.Q.D., Ber = 4'cle.**

(Type of Superstructures.)

Ship's Name DEVA.	Nationality and Port of Registry Spanish Barcelona	Official Number	Gross Tonnage 2,151	Date of Build 1907/5
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Moulded Dimensions: Length **88.05m** Breadth **12.954** Depth **5.969.**
Moulded displacement at moulded draught = 85 per cent. of moulded depth tons
Coefficient of fineness for use with Tables **.795**

Port of Survey
Date of Survey **29.12.32.**
Name of Surveyor
Particulars of Classification

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth	(a) Where D's greater than Table depth (D - Table depth) R =	Moulded Breadth (B)
Stringer plate	(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) = 5.981		Difference
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ 0

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					

Standard Height of Superstructure
„ „ R.Q.D.
Deduction for complete superstructure **874**
Percentage covered $\frac{S}{L} = 90.04$
„ „ $\frac{S_1}{L} = 90.04$
„ „ $\frac{E}{L} = 85.45.$
Percentage from Table, Line A.
(corrected for absence of forecastle (if required))
Percentage from Table, Line B. **Timber 90.90.**
(corrected for absence of forecastle (if required))
Interpolation for bridge less than 2L (if required)
Deduction = **794.**

SHEER CORRECTION.

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

<p>Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = 5.981. Summer freeboard = 300' Moulded draught (d) = 5.681</p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{48} \text{ inches} = 118 \frac{7}{8}$ Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{36} = 158.$</p>	<p>Deduction for Fresh Water.</p> <p>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 118</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient</p> <table border="1"> <tr><td>+</td><td>-</td></tr> <tr><td>21</td><td>794</td></tr> <tr><td></td><td>50</td></tr> <tr><td>21</td><td>844</td></tr> <tr><td></td><td>823</td></tr> </table> <p>Summer Freeboard = 300</p>	+	-	21	794		50	21	844		823
+	-											
21	794											
	50											
21	844											
	823											

TIMBER SUMMER FREEBOARD amidships **300"m = 11.81"** to top of Deck Line, **W.L.**, Steel, Deck: - **300"m = 11.81"**

TIMBER Tropical Fresh Water Line above Centre of Disc 31.3"m = 12.32"	TIMBER Tropical Fresh Water Freeboard ...	64" = 2.52"
„ Fresh Water Line „ „ 19.5" = 7.68"	„ Fresh Water „ „	182" = 7.16"
„ Tropical Line „ „ 19.5" = 7.68"	„ Tropical „ „	182" = 7.16"
„ Winter Line below „ „ 2.1" = 3.59"	„ Winter „ „	458" = 18.03"
„ Winter North Atlantic Line „ „ 168" = 6.61"	„ Winter North Atlantic „ „	545" = 21.45"
„ SUMMER „ above „ 77"m = 3.03"		

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