

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name TURNIA	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 54.33 Breadth 9.143 Depth 4.115					Date of Survey 20.11.47
Moulded displacement at moulded draught = 85 per cent. of moulded depth 1525 tons					Surveyor's Signature
Coefficient of fineness for use with Tables 870 ✓					Particulars of Classification

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 4.115	(a) Where D is greater than Table depth $8.33 \left(\frac{D - \text{Table depth}}{L} \right) R = 13.719' = +56$ ✓	Moulded Breadth (B) 9.143 ✓
Stringer plate	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 493	Standard Round of Beam = $\frac{B \times 12}{50} = 183$ ✓
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = Nil ✓
Depth for Freeboard (D) = 4.115 ✓		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{183}{4} \times \frac{1686}{4} = +31$ ✓

DEDUCTION FOR SUPERSTRUCTURES.					
Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	Standard Height of Superstructure
Poop enclosed					1.83 ✓
" overhang					R.Q.D.
R.Q.D. enclosed					Deduction for complete superstructure 606 ✓
" overhang					Percentage covered $\frac{S}{L} =$
Bridge enclosed 11.733	11.733	2.380 MIN.		11.733	" $\frac{S_1}{L} =$ 33.14 ✓
" overhang aft					" $\frac{E}{L} =$
" overhang forward					Percentage from Table, Line A Tankers 2414 ✓
Fore enclosed 6.273	6.273	2.100		6.273	(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 = 606 x 2414 = 146 m/m ✓
" " forward					
Total 18.006	18.006			18.006	

SHEER CORRECTION.							
Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.	707	1	707			1	
$\frac{1}{4}L$ from A.P.	314	4	1256			4	
$\frac{2}{4}L$ "	78.5	2	157			2	
Amidships	-	4	-	Nil	Nil	4	Nil
$\frac{3}{4}L$ from F.P.	157	2	314			2	
$\frac{1}{4}L$ "	628	4	2512			4	
F.P.	1413	1	1413			1	
Total			6359				Nil

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{6359}{18} (.75 - .1657) = 206 \text{ m/m}$ ✓
If limited on account of midship superstructure. **5843** ✓ If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 4.115 Ft. Summer freeboard = 705 Moulded draught (d) = 3.410 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 71 m/m Addition for Winter North Atlantic Freeboard (if required) = Nil assigned	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 1485$ Tons per inch immersion at summer load water line $T = 12.1$ Deduction = $\frac{\Delta}{40 T}$ inches = 78 m/m	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $.87 + .68 = 1.55 / 1.36$ <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%;"></td> </tr> <tr> <td style="text-align: center;">+</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">56</td> <td style="text-align: center;">146</td> </tr> <tr> <td style="text-align: center;">206</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">31</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td style="text-align: center;">293</td> <td style="text-align: center;">146</td> </tr> </table> Summer Freeboard = 710 ✓			+	-	56	146	206	-	31	-	-	-	293	146
+	-															
56	146															
206	-															
31	-															
-	-															
293	146															

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

Tropical Fresh Water Line above Centre of Disc ... 146 Fresh Water Line " " ... 76 Tropical Line " " ... 70 Winter Line below " " ... 70 Winter North Atlantic Line " " ... Nil assigned	Tropical Fresh Water Freeboard 559 Fresh Water " 629 Tropical " 635 Winter " 775 Winter North Atlantic " Nil assigned
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Freeboard as previously assigned by the American Bureau of Shipping

M/V TURNIA

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.

Aft bridge $\begin{array}{r} 37-6 \\ + 1 \\ \hline 38-6 \end{array} = \underline{11.733 \text{ m.}}$

Freeboard $\begin{array}{r} 6.425 \\ - 6'' \\ \hline 6.273 \end{array}$

$\begin{array}{r} 6.273 \\ 1.7 \\ \hline 8.073 \end{array}$ $\begin{array}{r} 4.115 \\ 1.067 \\ \hline 5.182 \end{array}$

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



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Foundation