

Rpt. C.11 (Comp.).
MARINE FORTUNE
395-89.

APPENDED.

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No.
(For London Office only.)

MARCO'S

Ship's Name WORLD TROTTER.	Official Number 174164.	Nationality and Port of Registry BRITISH. MONTREAL. Greek.	Gross Tonnage	Date of Build 1943.	Port of Survey
Moulded Dimensions: Length 417.35 Breadth 56.90 Depth 37.33					Date of Survey 30.10.51.
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 16,600. tons					Surveyor's Signature
Coefficient of fineness for use with Tables .771					Particulars of Classification 100A1. with Freeboard.

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 37.33	(a) Where D is greater than Table depth (D-Table depth) R = (37.38-27.82) 3 = +28.68"	Moulded Breadth (B) 56.9
Stringer plate05	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = 9.56	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{56.9 \times 12}{50} = \mathbf{13.66}$
Sheathing on exposed deck	If restricted by superstructures ✓	Ship's Round of Beam = 14.
$T \left(\frac{L-S}{L} \right) =$		Difference .34
Depth for Freeboard (D) = 37.38		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.34}{4} \times \left(1 - \frac{S_1}{L} \right) = \mathbf{.09}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (L)	
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.
F'cle enclosed						(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 = NIL.
" " forward						
Total						

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	51.73	1		51.73	55.00	55.00	1		55.00
$\frac{1}{4}$ L from A.P.	23.02	4		92.08	23.25	23.25	4		93.00
$\frac{3}{8}$ L "	5.69	2		11.38	6.50	6.50	2		13.00
Amidships	✓	4		✓	✓	✓	4		✓
$\frac{3}{8}$ L from F.P.	11.38	2		22.76	11.63	11.63	2		23.26
$\frac{1}{4}$ L "	46.04	4		184.16	46.75	46.75	4		187.00
F.P.	103.47	1		103.47	105.00	105.00	1		105.00
Total				465.58					476.26

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{10.68}{18} \left(.75 - \frac{S}{2L} \right) = \mathbf{.45}$

If limited on account of midship superstructure. **✓**

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

Mean actual sheer aft
Mean standard sheer aft = **12.00**

Mean actual sheer forward
Mean standard sheer forward = **13.00**

Length of enclosed superstructure forward of amidships = **76.95 + 6.26 = 83.21**

" " aft of " = **88.78**

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 $\frac{771 + .68}{1.36} = \mathbf{1.451}$
Depth to Freeboard Deck = 37.38	$\Delta =$	Depth Correction 28.68
Summer freeboard = 9.79	Tons per inch immersion at summer load water line	Deduction for superstructures ✓
Moulded draught (d) = 27.59	T =	Sheer correction ✓
Keel allowance =	Deduction = $\frac{\Delta}{40 T}$ inches	Round of Beam correction ✓
Extreme draught =	7 1/4"	Correction for Thickness of Deck amidships ✓
Deduction for Tropical freeboard and addition for		Other corrections, scantlings, etc. to conform to a summer model draught of .58
Winter freeboard = 4 inches = 7"		29.26 54.
Addition for Winter North Atlantic Freeboard (if required) =		27.60 (27.59 ACTUAL)
		Summer Freeboard = 117.50

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

Tropical Fresh Water Line above Centre of Disc 14 1/4"	Tropical Fresh Water Freeboard 8' 9 1/2"
Fresh Water Line " " 7 1/4"	Fresh Water 8' 7 1/4"
Tropical Line " " 7"	" 8' 2 1/4"
Winter Line below " " 7"	Tropical 9' 2 1/2"
Winter North Atlantic Line " " ✓	Winter 10' 4 1/2"
	Winter North Atlantic ✓