

AMENDED WITH 1966 TABULAR FREEBOARD.

PRELIMINARY SCANTLING ONLY

For LONDON OFFICE ONLY

LLOYD'S REGISTER OF SHIPPING

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received

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Owners C11

Ship's Name ORIENTAL GIANT	Official Number 1453	Nationality and Port of Registry LIBERIA MONROVIA	Gross Tonnage	Date of Build	Port of Survey LONDON H.Q.
Moulded Dimensions: Length 32.94 Breadth 18.50 Depth 18.50 M.					Date of Survey 22-7-66
Freeboard Length 24.5 M To 4 OF R.S.					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) _____ tons					Particulars of Classification 1105 A-1
Coefficient of fineness for use with Tables 0.820					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 18.500	(a) Where D is greater than Table depth (D-Table depth) R = (18.538-16.333) 250 = +551	Moulded Breadth (B) _____
Stringer plate ... 0.38	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = _____	Standard Round of Beam = $\frac{B \times 12}{50} =$ _____
Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ _____	If restricted by superstructures _____	Ship's Round of Beam = _____
Depth for Freeboard (D) = 18.538		Difference _____
		Restricted to _____
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{11 \times 6803}{4} = +7 \frac{1}{2} \text{ m}$

DEDUCTION FOR SUPERSTRUCTURES.				
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Effective Length (E)
Poop enclosed ...	46.413	46.413	2.7	46.413
" overhang ...				
R.Q.D. enclosed ...				
" overhang ...				
Bridge enclosed ...				
" overhang aft ...				
" overhang forward ...				
Fore enclosed ...	31.920	31.920	2.570	31.920
" overhang ...				
Trunk aft ...				
" forward ...				
Tonnage opening aft ...				
" forward ...				
Total ...	78.333	78.333		78.333

Standard Height of Superstructure **2.30** M

" " R.Q.D. _____

Deduction for complete superstructure **1070** M

Percentage covered $\frac{S}{L} =$ _____

" " $\frac{S_1}{L} =$ **31.97**

" " $\frac{E}{L} =$ _____

Percentage from Table, Line A. Type A **22.97** (corrected for absence of forecastle (if required))

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

Interpolation for bridge less than 2L (if required)

Deduction = **1070 x 22.97 = -246 m**

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	M	Product
A.P. ...		1			477	1	477
1/4 L from A.P. ...		4			0	4	
1/2 L " ...		2			0	2	
Amidships ...	0	4	0	0	0	4	0
3/4 L from F.P. ...		2			0	2	
3/4 L " ...		4			0	4	
F.P. ...		1			636	1	636
Total ...			20651				1583

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{19098-37}{18} \left(\frac{75-1599}{2 \times 18} \right) = +604$

If limited on account of midship superstructure. **1061**

Excess Poop HT = $\frac{400}{3} \times \frac{46.413}{245} = 25.3$

" Fore HT = $\frac{270}{3} \times \frac{31.920}{245} = 11.7$

Mean actual sheer aft = **DEF**

Mean standard sheer aft = **1303**

Mean actual sheer forward = **DEF**

Mean standard sheer forward = **1303**

Length of enclosed superstructure forward of amidships = **NIL**

" aft of " = **NIL**

1113 $(\frac{19528}{18} - 37) \left(\frac{75-1599}{2 \times 18} \right) = 618$

5901 $(\frac{19528}{18} - 37) \left(\frac{75-1599}{2 \times 18} \right) = 618$

If limited to maximum allowance of 1 1/2 ins. per 100ft.

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 = 18.538		$\Delta =$		$\frac{830+480}{1.36} = 1.11030$	
Summer freeboard = 4238		Tons per inch immersion at summer load water line			
Moulded draught (d) = 14.314		T =			
Keel allowance = 14.300		Deduction = $\frac{\Delta}{40 T}$ inches			
Extreme draught =					
Deduction for Tropical freeboard and addition for = 46.92					
Winter freeboard = $\frac{d}{4}$ inches =					
Addition for Winter North Atlantic Freeboard (if required) =					

Summer Freeboard = **4238**

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

Tropical Fresh Water Line above Centre of Disc	...	Tropical Fresh Water Freeboard	...
Fresh Water Line	"	Fresh Water	"
Tropical Line	"	Tropical	"
Winter Line	below	Winter	"
Winter North Atlantic Line	"	Winter North Atlantic	"