

2 DEC 1946

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Index. No. 29077
(For London Office only)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name OLANCHO EX NEMAHHA	Official Number 4RCH	Nationality and Port of Registry HONDURAS PUERTO CORTES	Gross Tonnage 6501	Date of Build 1920	Port of Survey NEW ORLEANS, LOUISIANA.
Moulded Dimensions: Length 395' 32" Breadth 55' 0" Depth 34' 11"					Date of Survey 29, 30 AUG 4, 5 SEPT 1946
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature J. N. Laing
Coefficient of fineness for use with Tables 802 assumed					Particulars of Classification RECLASSIFICATION CONTEMPLATED. EXAMINED 9, 46.

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 34' 11"	(a) Where D is greater than Table depth $(D - \text{Table depth}) R = (34.97 - 26.35) \times 3 = +25.86"$	Moulded Breadth (B) 55' 0"
Stringer plate ... 8"	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 13.2"$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam 12' 10.98"
Depth for Freeboard (D) = 34.97		Difference +2.22
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{2.22^2}{4} \times 554 = +31"$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	44.75'	44.75'	8'		44.75'
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	109.69'	109.69'	8'		109.69'
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	37.82'	21.86'	8'		21.86'
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward					
Total ...	192.26	176.30			176.30

Standard Height of Superstructure 7.453'	R.Q.D.
Deduction for complete superstructure 41.69'	
Percentage covered $\frac{S}{L} = 48.63$	
" $\frac{S_1}{L} = 44.60$	
" $\frac{E}{L} = 44.60$	
Percentage from Table, Line A. 27.41	
(corrected for absence of forecastle (if required))	
Percentage from Table, Line B. 31.41	
(corrected for absence of forecastle (if required))	
Interpolation for bridge less than 2L (if required)	
Deduction = 41.69 x .3141 = -13.10"	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	49.53	1		49.53	38	38.00	1		38.00
1/4 L from A.P. ...	22.04	4		88.16	9	9.00	4		36.00
1/2 L " ...	5.45	2		10.90	0	-	2		-
Amidships ...	-	4		-	0	-	4		-
3/4 L from F.P. ...	10.895	2		21.79	0	-	2		-
3/4 L " ...	44.085	4		176.34	21	21	4		84.00
F.P. ...	99.06	1		99.06	89.63	89.63	1		89.63
Total ...				445.78					247.63

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{198.15}{18} \left(.75 - \frac{24.32}{5068} \right) = +5.58"$

If limited on account of midship superstructure.

Mean actual sheer aft = **< 1**

Mean standard sheer aft

Mean actual sheer forward = **< 1**, = **.578**

Mean standard sheer forward

Length of enclosed superstructure forward of amidships = **10.895 - 32.685 = 21.79**

aft of " = **44.085 - 132.255 = 88.16**

89.63 - 89.63 = **0**

$\frac{152.63}{264.00} = .578$

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

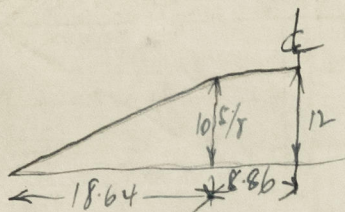
Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient. .681 802 1.482 / 1.36
Depth to Freeboard Deck = 34.97'	$\Delta =$	Depth Correction ... 25.86'
Summer freeboard = 7.92'	Tons per inch immersion at summer load water line	Deduction for superstructures ... 13.10'
Moulded draught (d) = 27.05'	T =	Sheer correction ... 5.58'
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.76 = 6 3/4	Deduction = $\frac{\Delta}{40T}$ inches = 7 1/4	Round of Beam correction31'
Addition for Winter North Atlantic Freeboard (if required) = Not applicable	as before	Correction for Thickness of Deck amidships ...
		Other corrections, scantlings, etc. ...
		31.78 13.10 +18.65
		Summer Freeboard = 95.00

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

Tropical Fresh Water Line above Centre of Disc ... 14'	Tropical Fresh Water Freeboard ... 71-11"
Fresh Water Line " " ... 7 1/4"	Fresh Water " " ... 61-9"
Tropical Line " " ... 63 3/4"	Tropical " " ... 71-33 3/4"
Winter Line below " " ... 63 3/4"	Winter " " ... 71-4 1/4"
Winter North Atlantic Line " " ...	Winter North Atlantic " " ... 81-53 3/4"

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.

Equivalent lumber.



$$\frac{18.64 \times 12 \times 10.625}{2} = 1188$$

$$8.86 \times 12 \times 10.625 = 1130$$

$$8.86 \times 12 \times 1.375 \times \frac{4}{3} = 97$$

$$\frac{2415}{2} = \frac{2}{3} \times 27.5 \times 12$$

$$\text{Equivalent lumber} = \frac{2415}{12 \times 27.5} \times \frac{3}{2} = 10.98$$

Trade of ship TRANSATLANTIC

Names of sister ships CITY OF OMAHA. WINSTON SALEM.

Builder's name and yard number G. A. FULLER COMPANY WILMINGTON, NORTH CAROLINA.

Owners LINEA SUD-AMERICANA

Fee \$240.00

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