

Empire Construction
38081

Oba 2378

Index No. 38076

(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "EMPIRE CONFEDERATION" <i>(ex "ELBE") N.N.</i> JOSE DIAS	Official Number 180614	Nationality and Port of Registry <i>British</i> London. <i>Russian</i>	Gross Tonnage 1575	Date of Build 1921	Port of Survey <i>Shell.</i>
Moulded Dimensions: Length 250'-³⁷/₄₈" Breadth 37'-6" Depth 15'-8"⁰⁹/₁₆ <i>upper deck</i>					Date of Survey
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature <i>J. L. Beasley.</i>
Coefficient of fineness for use with Tables .703 (assumed)					Particulars of Classification <input checked="" type="checkbox"/>

DEPTH FOR FREEBOARD (D). Moulded depth ... 15'-⁶⁶/₁₆" Stringer plate03 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 15'-12"	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = <input checked="" type="checkbox"/> (b) Where D is less than Table depth (if allowed) (Table depth-D) R = (16'-69" - 15'-12") x 1.926 = -3'-02" <i>1'-57"</i> If restricted by superstructures <i>Yes. Not.</i>	ROUND OF BEAM CORRECTION. Moulded Breadth (B) 37'-6" Standard Round of Beam = $\frac{B \times 12}{50} =$ 9 Ship's Round of Beam = 9 Difference <input checked="" type="checkbox"/> Restricted to <input checked="" type="checkbox"/> Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <input checked="" type="checkbox"/>
--	---	---

DEDUCTION FOR SUPERSTRUCTURES.					Standard Height of Superstructure 6'-00 1/4"
					" " R.Q.D. -
					Deduction for complete superstructure 31'-04"
					Percentage covered $\frac{S}{L} =$ 88.26 <input checked="" type="checkbox"/>
					" " $\frac{S_1}{L} =$ 80.28 <input checked="" type="checkbox"/>
					" " $\frac{E}{L} =$ 75.65 <input checked="" type="checkbox"/>
					Percentage from Table, Line A. 75.65 <input checked="" type="checkbox"/>
					(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 = 31'-04" x 75.65 = -23'-48" <input checked="" type="checkbox"/>

Poop enclosed ...	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
" overhang ...					
R.Q.D. enclosed ...	193'-0"	193'-00"	7'-1"	-	193'-00"
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...	26'-61"	26'-61"	6'-9 1/2"	-	26'-61"
Fore enclosed <i>equivalent</i> ...	27'-39"	.69			.69
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	221'-00"	201'-00"			201'-00"

SHEER CORRECTION.									
Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	35'-04"	1		35'-04"	39'-75"	39'-75"	1		39'-75"
1/8 L from A.P. ...	15'-59"	4		62'-36"	11'-00"	11'-00"	4		44'-00"
2/8 L " ...	3'-855"	2		7'-71"	-	-	2		-2
Amidships ...	-	4		-	-	-	4		-
57'-4" from F.P. ...	7'-71"	2		15'-42"	7'-25"	7'-25"	2		14'-50"
1/8 L " ...	31'-18"	4		124'-72"	31'-00"	31'-00"	4		124'-00"
F.P. ...	70'-08"	1		70'-08"	94'-12"	94'-12"	1		94'-12"
Total ...				315'-33"					316'-37"
Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{1'-04"}{18} \left(.75 - \frac{3087}{31637} \right) = -0.02$									
If limited on account of midship superstructure.									

Mean actual sheer aft = **> .75** ☒
Mean standard sheer aft = **> .75** ☒
Mean actual sheer forward = **Exact** ☒
Mean standard sheer forward = **Exact** ☒
Length of enclosed superstructure forward of amidships = **.27** ☒
" " aft of " = **.5** ☒

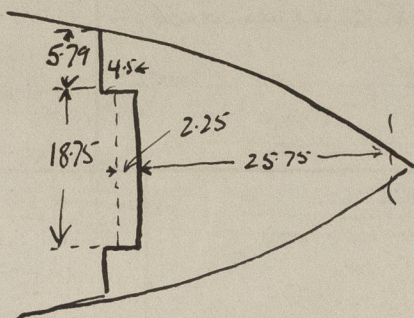
Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 15'-12" Summer freeboard = .79 Moulded draught (d) = 14'-33" Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 3'-58" = 3 1/2" Addition for Winter North Atlantic Freeboard (if required) =	Deduction for Fresh Water. 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 =	TABULAR FREEBOARD <i>corrected for Flush Deck (if required)</i> Correction for coefficient $\frac{.703 + .68}{1.36} = \frac{1.383}{1.36}$ Depth Correction ... Deduction for superstructures ... 23'-48" Sheer correction02 Round of Beam correction ... Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... 50 Summer Freeboard = 9'-48"
--	---	---

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-			
<i>Flt. under 1906 regulations as previously assigned by Sec. Berupgossenschaft.</i>	Tropical Fresh Water Line above Centre of Disc ... 3 1/2"	Fresh Water Line " 3 1/2"	Tropical Fresh Water Freeboard ... 0'-9 1/2"
	Tropical Line " 2 1/4"	Winter Line below " 2 1/4"	Fresh Water " ... 0'-6"
	Winter Line " 2 1/4"	Winter North Atlantic Line " 2 1/4"	Tropical " ... 0'-11 3/4"
			Winter " ... 0'-11 3/4"
			Winter North Atlantic " ... 0'-11 3/4"

Lloyd's Register Foundation

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.

Pop. 193' = .771 L.



$$\begin{array}{r} \text{Fch.} \\ 4.5 \times 5.79 \\ \hline 30.33 \end{array} = \begin{array}{r} 25.75 \\ .86 \\ \hline 26.61 \end{array} \quad \begin{array}{r} 2.25 \\ .86 \\ \hline 1.39 \end{array}$$

Trade of ship Foreign Articles

Names of sister ships ✓

Builder's name and yard number Werft Hobiskrug G.m.b.H.

Owners Ministry of War Transport, Managers Buchanan & Hogg, Grangemouth.

Fee £ To be charged with General Examination.



© 2020

Lloyd's Register
Foundation