

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD.

EVER FORTUNE (COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name EX DORO.	Official Number 2047	Nationality and Port of Registry COSTA RICA Liberian Monrovia	Gross Tonnage 6766	Date of Build 1943	Port of Survey
Moulded Dimensions: Length 410.53' Breadth 56.29' Depth 36.66'					Date of Survey 30-1-53
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 15611 tons					Surveyor's Signature
Coefficient of fineness for use with Tables .759.					Particulars of Classification W.A.1. WITH FREEBOARD.

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 36.66	(a) Where D is greater than Table depth (D-Table depth) R = (36.73 - 27.37) 3 = +28.08"	Moulded Breadth (B) 56.29.
Stringer plate07	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = 9.36	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{56.29 \times 12}{50} = 13.51.$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 12.00.
Depth for Freeboard (D) = 36.73.		Difference 1.51.
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{1.51}{4} = +.38.$

DEDUCTION FOR SUPERSTRUCTURES.

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

Standard Height of Superstructure **7.5'**

" " R.Q.D. **1'**

Deduction for complete superstructure **42.00'**

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

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

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

Percentage from Table, Line A. (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 = **NIL.**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	51.05	1	51.05	72.00	72.00	72.00	1	72.00	
$\frac{1}{4}$ L from A.P. ...	22.72	4	90.88	32.00	32.00	32.00	4	128.00	
$\frac{3}{4}$ L " ...	5.615	2	11.23	5.75	5.75	5.75	2	11.50	
Amidships ...	✓	4	✓	✓	✓	✓	4	✓	
$\frac{3}{4}$ L from F.P. ...	11.23	2	22.46	7.50	7.50	7.50	2	15.00	
$\frac{1}{4}$ L " ...	45.435	4	181.74	54.75	54.75	54.75	4	219.00	
F.P. ...	102.11	1	102.11	132.00	132.00	132.00	1	132.00	
Total ...			459.47					577.50	

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

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

" " aft of " = **OK.**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{118.03}{18} \times .75 = -4.92.$

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

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

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Ft. Depth to Freeboard Deck = 36.73 Summer freeboard = 9.10 Moulded draught (d) = 27.63 Keel allowance = Extreme draught = Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.91 = 7' 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 = Say 7 1/4"	TABULAR FREEBOARD - corrected for Flush Deck (if required) Correction for coefficient $\frac{.759 + .68}{1.36} = \frac{1.439}{1.36}$ <table border="1"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr><td>Depth Correction ...</td><td>28.08</td><td>✓</td></tr> <tr><td>Deduction for superstructures ...</td><td>✓</td><td>✓</td></tr> <tr><td>Sheer correction ...</td><td>✓</td><td>4.92</td></tr> <tr><td>Round of Beam correction ...</td><td>.38</td><td>✓</td></tr> <tr><td>Correction for Thickness of Deck amidships ...</td><td>✓</td><td>✓</td></tr> <tr><td>Other corrections, scantlings, etc. ...</td><td>✓</td><td>✓</td></tr> <tr><td>28.46</td><td>4.92</td><td>= +23.54.</td></tr> </tbody> </table> Summer Freeboard = 109.17		+	-	Depth Correction ...	28.08	✓	Deduction for superstructures ...	✓	✓	Sheer correction ...	✓	4.92	Round of Beam correction38	✓	Correction for Thickness of Deck amidships ...	✓	✓	Other corrections, scantlings, etc. ...	✓	✓	28.46	4.92	= +23.54.
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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	9' 1 1/4" (2775 mm)
Fresh Water Line " " ...	7 1/4"	Fresh Water " " ...	7' 0 1/4"
Tropical Line " " ...	7"	Tropical " " ...	8' 6 1/4"
Winter Line below " " ...	7"	Winter " " ...	9' 8 1/4"
Winter North Atlantic Line " " ...	✓	Winter North Atlantic " " ...	✓