

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

N^o 34273

"UNION FAIR" (COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name EMPIRE HONDURAS	Official Number 180177	Nationality and Port of Registry BRITISH LIBERIAN MONROVIA	Gross Tonnage 7320 6970.75	Date of Build 1945	Port of Survey Sunderland
Moulded Dimensions: Length 425.81 Breadth 56.0 Depth 38.0521 To & of Rudder Stock					Date of Survey While building
Moulded displacement at moulded draught = 85 per cent. of moulded depth 32.34 = 1720.1744 tons					Surveyor's Signature R.M. Wilson
Coefficient of fineness for use with Tables .778					Particulars of Classification 100A.1 with freeboard (Contemplated)

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth ...	38.0521	(a) Where D is greater than Table depth (D-Table depth) R =	(38.11 - 28.39) * 3 = 29.16	Moulded Breadth (B)	56.0
Stringer plate70	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	9.72	Standard Round of Beam = $\frac{B \times 12}{50}$	= 13.44
Sheathing on exposed deck	T = $\frac{L-S}{L}$	If restricted by superstructures	✓	Ship's Round of Beam equivl.	= 14.25
Depth for Freeboard (D) =	38.11			Difference	.81
				Restricted to	
				Correction = $\frac{\text{Diff}^{\circ}}{4} \times (1 - \frac{S_1}{L})$	= $\frac{.81}{4} \times .8386 = .17$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	34.5		3.0		
„ overhang					
R.Q.D. enclosed	34.50	34.50	3.0	* 3/6	17.25
„ overhang					
Bridge enclosed					
„ overhang aft					
„ overhang forward					
Fore enclosed	34.25	34.25	7.0	* 7/7.5	31.46
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total	68.75	68.75			49.21

Standard Height of Superstructure **7.5**

„ „ R.Q.D. **6.0**

Deduction for complete superstructure **42"**

Percentage covered $\frac{S}{L} =$ } **16.14**

„ „ $\frac{S_1}{L} =$ }

„ „ $\frac{E}{L} =$ **11.56**

Percentage from Table, Line A. **5.78**
(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 = **42" * .0578 = -2.43**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	52.58	1	52.58	9.125"	9.12	1	9.12
1/4 L from A.P.	23.40	4	93.60	.125"	.125	4	.50
1/2 L	5.78	2	11.56			2	
Amidships		4				4	
3/4 L from F.P.	11.57	2	23.14			2	
1/4 L	46.80	4	187.20	5.25"	5.25	4	21.00
F.P.	105.16	1	105.16	78.75"	78.75	1	78.75
Total			473.24				109.37

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

„ „ aft of „ =

Deficient.

Nil

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{363.87}{18} (.75 - .0802) = +13.53$

If limited on account of midship superstructure. If limited to maximum allowance of 1 1/2 ins. per 100 ft. ✓

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD 79.60	79.60
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Corrected for Flush Deck (if required)	85.34
Depth to Freeboard Deck = 38.11	$\Delta =$ 13.880	Correction for coefficient $\frac{.778 + .68}{1.36} = \frac{1.458}{1.36}$	
Summer freeboard = 11.42	Tons per inch immersion at summer load water line	Depth Correction ...	29.16
Moulded draught (d) = 26.69	T = 48.78	Deduction for superstructures ...	- 2.43
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.67 = 6 3/4	Deduction = $\frac{\Delta}{40 T}$ inches = 7.11 = 7"	Sheer correction ...	13.53
Addition for Winter North Atlantic Freeboard (if required) = ✓		Round of Beam correction ...	- .17
		Correction for Thickness of Deck amidships ...	-
		Other corrections, scantlings, etc. to ...	11.57
		Correspond to a summer extreme draught of 26-9"	54.26
			2.60
			Summer Freeboard = 137.00

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

Tropical Fresh Water Line above Centre of Disc ... 35.5	13 3/4"	Tropical Fresh Water Freeboard	10 - 3/4"	31.3
Fresh Water Line " " ... 18	7"	Fresh Water	10 - 10"	330
Tropical Line " " ... 17	6 3/4"	Tropical	10 - 10 1/4"	331
Winter Line below " " ... 17	6 3/4"	Winter	11 - 11 3/4"	365
Winter North Atlantic Line " " ... ✓	✓	Winter North Atlantic	✓	✓

6.9.45 **Chs. 348**

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Union Fair. Empire Honduras.

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.

Displacement at 26'-9" draught = 13880 tons

Tons per inch = 48.78 tons

Trade of ship

Names of sister ships "EMPIRE DOMINICA" SUNDERLAND RPT NO 34218 "EMPIRE NAIROBI" SUNDERLAND RPT NO 34141

Builder's name and yard number Shoat Brothers Limited Yard no 486

Owners Ministry of War Transport

Fee £ 18 : - : -

Will be charged on Y.E.



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Foundation