

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name ACTOR (ex "Thomas Sully")	Official Number --	Nationality and Port of Registry Panamanian Panama	Gross Tonnage 7225	Date of Build 1943 - 9	Port of Survey Baltimore, Maryland Date of Survey 13th February, 1947, and subsequently Surveyor's Signature <i>J. McLean</i> Particulars of Classification 100 A1 contemplated
Moulded Dimensions: Length 417.73 Breadth 56.9 Depth 37.33 Moulded displacement at moulded draught = 85 per cent. of moulded depth at 31.73 tons T/1 at 26' = 48.1; at 27' = 48.85; at 28' = 48.8 Coefficient of fineness for use with Tables .768					

Depth for Freeboard (D). Moulded depth 37.33 Stringer plate7106 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 37.39	Depth correction. (a) Where D is greater than Table depth (D - Table depth) R = $(37.39 - 27.85) 300 = +28.62$ (b) Where D is less than Table depth (if allowed) (Table depth - D) R = If restricted by superstructures	Round of Beam correction. Moulded Breadth (B) 56.90 Standard Round of Beam = $B \times \frac{12}{50} =$ 13.66 Ship's Round of Beam = 14.005 Difference .345 Restricted to Correction = $\frac{\text{Diff} \times (1 - \frac{S_1}{L})}{4} =$ -.10
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure
.. overhang R.Q.D.
R.Q.D. enclosed						Deduction for complete superstructure
.. overhang						Percentage covered $\frac{S}{L} =$
Bridge enclosed $\frac{S_1}{L} =$
.. overhang aft $\frac{E}{L} =$
.. overhang forward						Percentage from Table, Line A.
Fore enclosed						(corrected for absence of forecastle (if required))
.. overhang						Percentage from Table, Line B.
Trunk aft						(corrected for absence of forecastle (if required))
.. forward						Interpolation for bridge less than .2L (if required)
Tonnage opening aft						Deduction =
.. .. forward						
Total						

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P.	51.77	1	51.77	54.12	54.12	1	54.12			Mean actual sheer aft = Enclosed
1/4 L from A.P.	23.64	4	94.56	24.00	24.00	4	96.00			Mean actual sheer forward = Enclosed
1/2 L.	5.64	2	11.28	5.00	5.00	2	10.00			Length of enclosed superstructure
Amidships	-	4	-	-	-	4	-		 forward of amidships = NIL
3/4 L. from F.P.	11.39	2	22.78	11.75	11.75	2	23.50		 aft of .. = NIL
F.P.	26.05	4	104.20	47.75	47.75	4	191.00			
F.P.	103.85	1	103.85	105.37	105.37	1	105.37			
Total			465.96				474.99			
Correction = $\frac{\text{Difference between sums of products}}{18} = \frac{465.96 - 474.99}{18} = -0.50$ If limited on account of midship superstructure.										

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **37.39**
 Summer freeboard = **9.73**
 Moulded draught (d) = **27.66**
 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **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 = $\frac{\Delta}{40T}$ inches = **7.4**

TABULAR FREEBOARD		RUSH PENALTY 5.27"	corrected for Flush Deck (if required)	83.84
Correction for coefficient 7.48 + 6.8 = 13.6				88.75
Depth Correction	29.6	+	-	
Deduction for superstructures	-	-	-	
Sheer correction	-	-	-	
Round of Beam correction	-	-	-	
Correction for Thickness of Deck amidships	-	-	-	
Other corrections, scantlings, etc.	-	-	-	
Summer Freeboard = 116.69				

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:		1.82"	2.765	4.44
Tropical Fresh Water Line above Centre of Disc	1.26	2.765	2.765	2.765
Fresh Water Line	1.26	2.765	2.765	2.765
Tropical Line	1.26	2.765	2.765	2.765
Winter Line below	1.26	2.765	2.765	2.765
Winter North Atlantic Line	1.26	2.765	2.765	2.765