

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "CALLISTO."	Official Number ✓	Nationality and Port of Registry DUTCH ROTTERDAM.	Gross Tonnage ✓	Date of Build 1951.	Port of Survey SUNDERLAND
Moulded Dimensions: Length 132.84 M. Breadth 17.83 M. Depth 9.00 M. To 2 ND DK. To CR. LINE OF RUDDER STOCK					Date of Survey DURING CONSTRUCTION
Moulded displacement at moulded draught = 85 per cent. of moulded depth 13,695 METRIC tons					Surveyor's Signature <i>L. Little</i>
Coefficient of fineness for use with Tables .74 .737					Particulars of Classification *10041 (CONTEMPLATED)

DEPTH FOR FREEBOARD (D). Moulded depth ... 9M. Stringer plate (38")01 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 9.01M.	DEPTH CORRECTION. (a) Where D is greater than Table depth $R = \frac{D - \text{Table depth}}{0.153}$ $8.33 (9.01 - 8.857) = + 38 - / -$ (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) 17.83M. Standard Round of Beam = $\frac{B \times 12}{50} =$ 356 - / - Ship's Round of Beam = 356MM. Difference NIL. Restricted to Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ NIL.
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DEDUCTION FOR SUPERSTRUCTURES.				
Mean Covered Length (S) METERS	Equivalent Enclosed Length (S ₁) METERS	Height M. METERS	Height Correction	Effective Length (E)
Poop enclosed (TWEEN DKS)	10.006	2593	-	10.006
... overhang	✓	-	-	-
R.Q.D. enclosed	✓	-	-	-
... overhang	✓	-	-	-
Bridge enclosed (TWEEN DKS)	121.27	2593	-	121.310
... overhang aft	✓	-	-	-
... overhang forward	✓	-	-	-
F'cle enclosed (ON C.S.S.)	10.37	2287	-	-
... overhang	✓	-	-	-
Trunk aft	✓	-	-	-
... forward	✓	-	-	-
Tonnage opening aft	152.4	762	-	762
... forward	✓	-	-	-
Total	132.840	132.078	-	132.078

Standard Height of Superstructure	2290 - / -
" " R.Q.D.	-
Deduction for complete superstructure	1067 - / -
Percentage covered $\frac{S}{L} =$	100.00 ✓
" " $\frac{S_1}{L} =$	99.42 ✓
" " $\frac{E}{L} =$	99.28 ✓
Percentage from Table, Line A. 23	99.28 ✓
(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 = 1067 x .9928 =	1059 - / -

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate METERS	Effective Ordinate	S M	Product
A.P. ...	1361	1	1361	1372	1675	1	1675
1/4 L from A.P. ...	6045	4	2418	610	745	4	2980
2/4 L " ...	151	2	302	153	184	2	368
Amidships ...	-	4	-	-	-	4	-
3/4 L from F.P. ...	302	2	604	323	352	2	704
1/4 L " ...	1209	4	4836	1287	1424	4	5696
F.P. ...	2722	1	2722	2896	3199	1	3199
Total ...			12243	+ 303			14622

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - \frac{S}{2L}}{.75} \right) = \frac{2379}{18} \times .25 = -33 - / -$

If limited on account of midship superstructure. ✓

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

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 9.010 Summer freeboard = 1.140 Moulded draught (d) = 7.870 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{48}$ inches = 164 - / - = 16 cm. Addition for Winter North Atlantic Freeboard (if required) =	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 14163$ METRIC TONS Tons per inch immersion at summer load water line $T = 51.987$ METRIC TONS PER INCH. Deduction = $\frac{\Delta}{40 T}$ inches = 6.81 = 173 - / - = 17 cm.	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{68 + 737}{1.36} = 1417 / 1.36$ <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction</td> <td>38</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures</td> <td>-</td> <td>1059</td> </tr> <tr> <td>Sheer correction</td> <td>-</td> <td>33</td> </tr> <tr> <td>Round of Beam correction</td> <td>-</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></td> <td>38</td> <td>1092</td> </tr> </table> Summer Freeboard = 1135		+	-	Depth Correction	38	-	Deduction for superstructures	-	1059	Sheer correction	-	33	Round of Beam correction	-	-	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	-	-		38	1092
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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	33 cm.	Tropical Fresh Water Freeboard	81 cm.
Fresh Water Line " "	17 cm.	Fresh Water " "	97 cm.
Tropical Line " "	16 cm.	Tropical " "	98 cm.
Winter Line below " "	16 cm.	Winter " "	130 cm.
Winter North Atlantic Line " "	-	Winter North Atlantic " "	-

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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.

EXTERNAL DISPLACEMENT. AT 25.0' (7.62M) = 13,655 METRIC TONS
" " AT 26.0' (7.92M) = 14,275 " "

T.P.I. (26MM) 51.61 METRIC TONS
" " " 52.07 " "

26 14275 ✓ 52.07 ✓
25 13655 ✓ 51.61 ✓
1 620' 0.46 ✓

620 x .82 = 508 ✓
13655 ✓
14163 ✓

.46 x .82 = .377 ✓
51.61 ✓
51.987 ✓

Over

Trade of ship OCEAN GOING

Names of sister ships ✓

Builder's name and yard number MESSRS SHORT BROS LTD YARD N° 506

Owners MESSRS HUDIG AND VEDER N.Y.

Fee £ TO BE CHARGED WITH F.E.



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Foundation