

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received

Index No.

Govt. Copy

Owners C11

Ship's Name TITANIAN	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 442.0' Breadth 58.5' Depth 33.0'					Date of Survey 15-1-56
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing)					Particulars of Classification +100A1
Coefficient of fineness for use with Tables .79					

DEPTH FOR FREEBOARD (D). Moulded depth ... 33.00 Stringer plate $(.65 + .80) = 1.45$12 Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$... Depth for Freeboard (D) = 33.12	DEPTH CORRECTION. (a) Where D is greater than Table depth $(D - \text{Table depth}) / R =$ $(33.12 - 29.47) / 3.0 = 10.95$ (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) 58.50 Standard Round of Beam = $\frac{B \times 12}{50} = 14.04$ Ship's Round of Beam = 14.50 Difference .46 Restricted to .115 Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.46}{4} \times .1204 = .01$
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DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	107.00	107.00	7.5	-	107.00
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	29.00	29.00	7.5	-	29.00
" overhang aft					
" overhang forward					
F'cle enclosed	41.54	41.54	7.5	-	41.54
" overhang		129.38	7.5	-	129.38
Trunk aft	81.48	81.48	7.5	-	81.48
" forward					
Tonnage opening aft					
" forward					
Total	177.54	388.30			388.40

Standard Height of Superstructure **7.5'**
 " " R.Q.D.
 Deduction for complete superstructure **42.00**
 Percentage covered $\frac{S}{L} = 40.17$
 " " $\frac{S_1}{L} =$ } **87.86**
 " " $\frac{E}{L} =$ }
 Percentage from Table, Line A. **VB** **85.04**
 (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 = $42.00 \times .8504 = 35.72$

SHEER CORRECTION.							
Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	Product
A.P.	54.20	1			56.40		56.40
$\frac{1}{2}L$ from A.P.		4			15.60		62.40
$\frac{2}{3}L$ "		2			0		0
Amidships	0	4	0	0	0	0	0
$\frac{2}{3}L$ from F.P.		2			14.40		28.80
$\frac{1}{2}L$ "		4			54.00		216.00
F.P.	108.40	1			108.00		108.00
Total				487.80			474.60

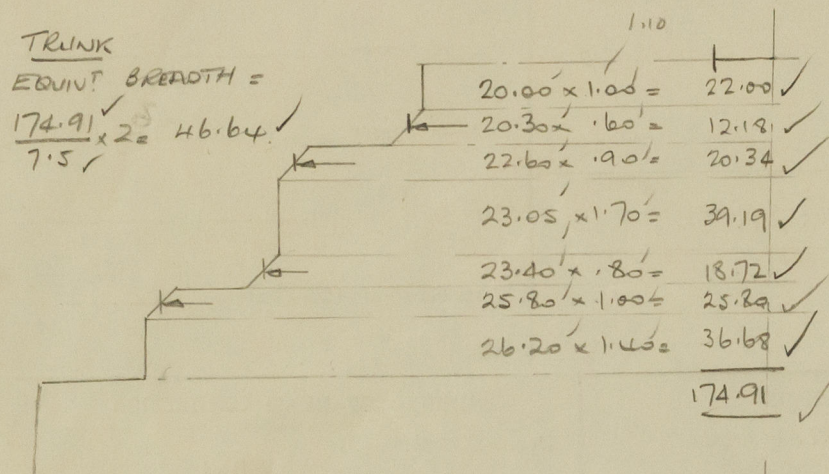
Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{16.20}{18} \left(.75 - \frac{2008}{2008} \right) = +.49$
 If limited on account of midship superstructure. **.5492**
 Mean actual sheer aft = **71.44%** Deficient (say 75%)
 Mean standard sheer aft =
 Mean actual sheer forward = **EXCESS**
 Mean standard sheer forward =
 Length of enclosed superstructure forward of amidships = **7** Sheers
 " " aft of " = **3** Deficient

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 33.06 Summer freeboard = 5.60 Moulded draught (d) = 27.52 Keel allowance = Extreme draught = Deduction for Tropical freeboard and addition for = Winter freeboard = $\frac{d}{4}$ inches = 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 corrected for Flush Deck (if required) Correction for coefficient $\frac{.79 + .68}{1.36} = 1.47 / 1.36$ <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction</td> <td>10.95</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures</td> <td>-</td> <td>35.72</td> </tr> <tr> <td>Sheer correction</td> <td>.49</td> <td>-</td> </tr> <tr> <td>Round of Beam correction</td> <td>-</td> <td>.01</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>11.44</td> <td>35.73</td> </tr> </table> Summer Freeboard = 67.17 84.62 91.46 19.1.56		+	-	Depth Correction	10.95	-	Deduction for superstructures	-	35.72	Sheer correction	.49	-	Round of Beam correction	-	.01	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	-	-		11.44	35.73
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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	...	Tropical Fresh Water Freeboard	...
Fresh Water Line	"	Fresh Water	"
Tropical Line	"	Tropical	"
Winter Line	below	Winter	"
Winter North Atlantic Line	"	Winter North Atlantic	"

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.



Trade of ship.....

Names of sister ships.....

Builder's name and yard number.....

Owners.....

Fee £..... : :

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)



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Foundation