

CONVERSION TANKER TO STEAMER.
(WITH EQUIV. DRAUGHT - FLUSH DECK)

Rpt. C.11 (Comp.)

For LONDON OFFICE ONLY

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received
Index No.
Govt. Copy
Owners CII

Ship's Name TITANIAN <i>ex Gsprau</i> <i>ex Mergonen</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 442' / Breadth 58.5' / Depth 39.19'					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 + 100 A1
Coefficient of fineness for use with Tables .806					

<p>DEPTH FOR FREEBOARD (D).</p> <p>Moulded depth ... 39.19</p> <p>Stringer plate12</p> <p>Wood Sheathing on exposed deck</p> <p>$T \left(\frac{L-S}{L} \right) =$</p> <p>Depth for Freeboard (D) = 39.31</p>	<p>DEPTH CORRECTION.</p> <p>(a) Where D is greater than Table depth (D-Table depth) R = 39.31 - 29.47 = 9.84</p> <p>(b) Where D is less than Table depth (if allowed) (Table depth-D) R =</p> <p>If restricted by superstructures</p>	<p>ROUND OF BEAM CORRECTION.</p> <p>Moulded Breadth (B) 58.50</p> <p>Standard Round of Beam = $\frac{B \times 12}{50} = 14.04$</p> <p>Ship's Round of Beam = 14.50</p> <p>Difference .46</p> <p>Restricted to</p> <p>Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \text{NIL}$</p>
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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 _____

" " R.Q.D. _____

Deduction for complete superstructure _____

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.		1				1	
$\frac{1}{4}L$ from A.P.		4				4	
$\frac{2}{8}L$ "		2				2	
Amidships	0	4				4	0
$\frac{2}{8}L$ from F.P.		2				2	
$\frac{1}{4}L$ "		4				4	
F.P.		1				1	
Total							47.6

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 " = _____

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{16.2 \times .75}{18} = .68$

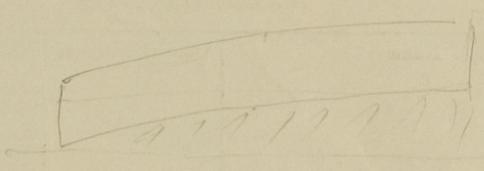
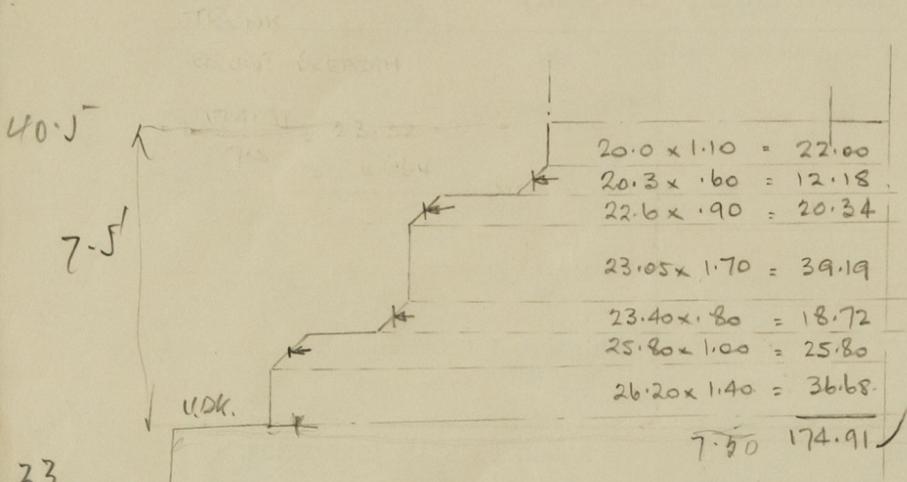
If limited on account of midship superstructure. If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100ft.

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = 33.12</p> <p>Summer freeboard = 4.63</p> <p>Moulded draught (d) = 28.49</p> <p>Keel allowance = _____</p> <p>Extreme draught = _____</p> <p>Deduction for Tropical freeboard and addition for = _____</p> <p>Winter freeboard = $\frac{d}{4}$ inches = _____</p> <p>Addition for Winter North Atlantic Freeboard (if required) = _____</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>$\Delta =$ _____</p> <p>Tons per inch immersion at summer load water line</p> <p>T = _____</p> <p>Deduction = $\frac{\Delta}{40 T}$ inches = _____</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient $\frac{.806 + .68}{1.36} = 1.486$</p> <table border="1"> <tr><td>+</td><td>-</td></tr> <tr><td>Depth Correction</td><td>29.52</td></tr> <tr><td>Deduction for superstructures</td><td></td></tr> <tr><td>Sheer correction</td><td>.68</td></tr> <tr><td>Round of Beam correction</td><td>.12</td></tr> <tr><td>Correction for Thickness of Deck amidships</td><td></td></tr> <tr><td>Other corrections, scantlings, etc.</td><td>74.28</td></tr> <tr><td>30.20</td><td>74.40</td></tr> </table> <p>Summer Freeboard = 55.50</p>	+	-	Depth Correction	29.52	Deduction for superstructures		Sheer correction	.68	Round of Beam correction	.12	Correction for Thickness of Deck amidships		Other corrections, scantlings, etc.	74.28	30.20	74.40
+	-																	
Depth Correction	29.52																	
Deduction for superstructures																		
Sheer correction	.68																	
Round of Beam correction	.12																	
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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.



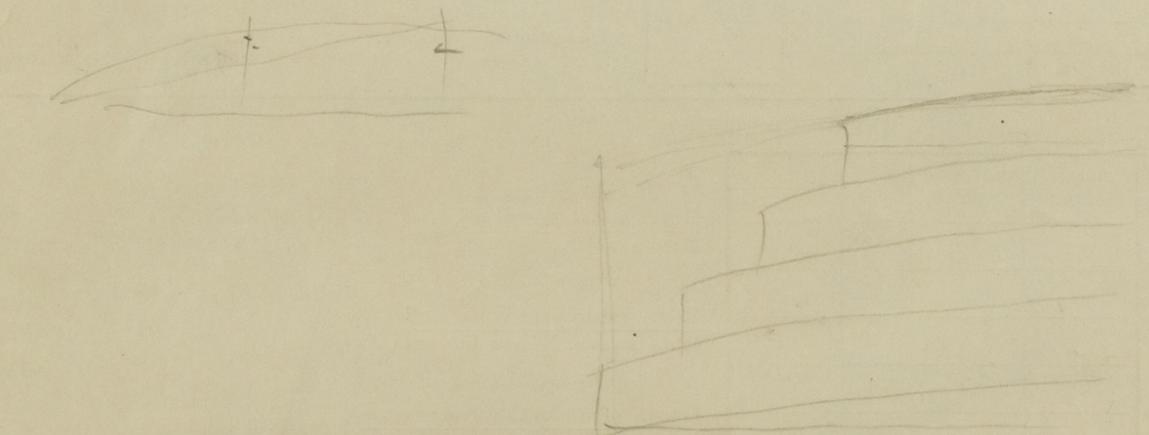
EQUIVALENT DECK. = $\frac{174.91'}{28.25'} = 6.19'$ above prepared U.D.K.
 (assuming 12" tumble home)

$\frac{174.91}{29.25} = 5.98'$

EQUIVALENT DEPTH.
 = $33.0' + 6.19' = 39.19'$

2' x 7.5'
 1.5'
 about 2"

If camber is added $\frac{2}{3}$ per 100'



If camber is added to eqn
 $= \frac{2}{3} \times \frac{14.5}{12} = \frac{14.5}{18} = .805'$

Trade of ship _____
 Names of sister ships _____
 Builder's name and yard number _____
 Owners _____
 Fee £ _____

is about .6' on draught

Say put in round of beam calculator as in RIGEL

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

Right in their allowance but camber was.