

FLUSH DECK

(ACTUAL ERECTIONS)

LLOYD'S REGISTER OF SHIPPING
UNITED WITH THE BRITISH CORPORATION REGISTER
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name TSUKUSHI MARU	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 452.0 Breadth 59.06 Depth 33.35	Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) _____ tons				Date of Survey 9-1-52
Coefficient of fineness for use with Tables assumed .68				Surveyor's Signature _____	
				Particulars of Classification 100A1 <i>conforms</i>	

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	33.35	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	
Stringer plate06	(33.41 - 30.13) 3 = +9.84"		Standard Round of Beam = $\frac{B \times 12}{50}$ =	
Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam =	
$T \left(\frac{L-S}{L} \right) =$				Difference	STANDARD.
Depth for Freeboard (D) =	33.41	If restricted by superstructures	<input checked="" type="checkbox"/>	Restricted to	
				Correction = $\frac{Diff}{4} \times \left(1 - \frac{S_1}{L} \right)$ =	NIL.

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 <i>main</i>	67.0	8.0		67.0
" overhang				
Trunk aft				
" forward				
Tonnage opening aft				
" " forward				
Total	67.0			67.0

Standard Height of Superstructure **7.5**
" " R.Q.D.
Deduction for complete superstructure **42.00**
Percentage covered $\frac{S}{L} =$
" " $\frac{S_1}{L} =$ } **14.82**
" " $\frac{E}{L} =$
Percentage from Table, Line A. **7.4%**
(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 x 0.074 = - 3.12**

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
$\frac{1}{2}L$ from A.P.		4				4	
$\frac{3}{4}L$ "		2				2	
Amidships		4				4	
$\frac{3}{4}L$ from F.P.		2				2	
$\frac{1}{2}L$ "		4				4	
F.P.		1				1	
Total							

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ **NIL.**
If limited on account of midship superstructure. If limited to maximum allowance of 1 1/2 ins. per 100 ft.

<p>Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = 33.36 Summer freeboard = 7.88 Moulded draught (d) = 25.50 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) = _____</p>	<p>Deduction for Fresh Water.</p> <p>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 = _____</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient NIL.</p> <table border="1"> <tr> <td>+</td> <td>-</td> </tr> <tr> <td>Depth Correction</td> <td>9.84</td> </tr> <tr> <td>Deduction for superstructures</td> <td>3.12</td> </tr> <tr> <td>Sheer correction</td> <td></td> </tr> <tr> <td>Round of Beam correction</td> <td></td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td></td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td></td> </tr> <tr> <td></td> <td>9.84</td> </tr> <tr> <td></td> <td>3.12</td> </tr> <tr> <td></td> <td>6.72</td> </tr> <tr> <td></td> <td>6.15</td> </tr> <tr> <td></td> <td>93.56</td> </tr> </table>	+	-	Depth Correction	9.84	Deduction for superstructures	3.12	Sheer correction		Round of Beam correction		Correction for Thickness of Deck amidships		Other corrections, scantlings, etc.			9.84		3.12		6.72		6.15		93.56
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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 " "