

FLUSH DECK (50% section)

SCANTLING.

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					Date of Survey 9-1-52
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) _____ tons					Surveyor's Signature _____
Coefficient of fineness for use with Tables assumed .68.					Particulars of Classification 100A continuous

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 = 84 (33.44 - 30.13) 3 = +9.27	Moulded Breadth (B) _____
Stringer plate06	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = _____	Standard Round of Beam = $\frac{B \times 12}{50} =$ _____
Sheathing on exposed deck	If restricted by superstructures _____	Ship's Round of Beam = _____
$T \left(\frac{L-S}{L} \right) =$		Difference STANDARD.
Depth for Freeboard (D) = 33.30		Restricted to _____
		Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) = \text{NIL}$

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				
" overhang				
Trunk aft				
" forward				
Tonnage opening aft				
" " forward				
Total				

Standard Height of Superstructure **7.5**

" " R.Q.D.

Deduction for complete superstructure **42.00**

Percentage covered $\frac{S}{L} =$ _____

" " $\frac{S_1}{L} =$ **50%**

" " $\frac{E}{L} =$ _____

Percentage from Table, Line A. _____
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. _____
(corrected for absence of forecastle (if required)) **36.00**

Interpolation for bridge less than .2L (if required) _____

Deduction = **42.00 x .3600 = -15.12**

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		
$\frac{2}{4}L$ "		2					2		
Amidships		4					4		
$\frac{2}{4}L$ from F.P.		2					2		
$\frac{1}{4}L$ "		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. _____

Mean actual shear aft = _____
Mean standard shear aft = _____

Mean actual shear forward = _____
Mean standard shear forward = _____

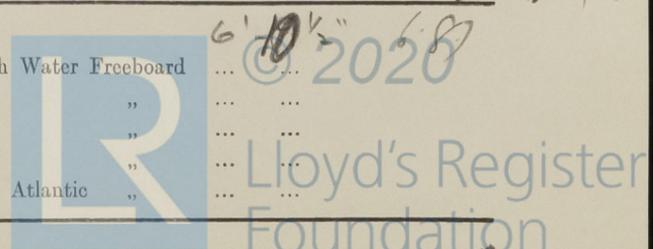
Length of enclosed superstructure forward of amidships = _____
" " aft of " = _____

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	87.72
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient	87.72
Depth to Freeboard Deck = 33.36 Ft.	$\Delta =$		
Summer freeboard = 6.87	Tons per inch immersion at summer load water line	Depth Correction 9.84	
Moulded draught (d) = 26.49	T =	Deduction for superstructures 15.12	
Keel allowance = _____	Deduction = $\frac{\Delta}{40 T}$ inches	Sheer correction ✓	
Extreme draught = _____		Round of Beam correction ✓	
Deduction for Tropical freeboard and addition for _____		Correction for Thickness of Deck amidships ✓	
Winter freeboard = $\frac{d}{4}$ inches = _____		Other corrections, scantlings, etc. ✓	
Addition for Winter North Atlantic Freeboard (if required) = _____		9.84 - 15.12 = -5.28	5.28
		Summer Freeboard = 81.36	81.36

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 " "

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