

FLUSH DECK (50% section)  
SCANTLING.Index No. \_\_\_\_\_  
(For London Office only.)LLOYD'S REGISTER OF SHIPPING  
UNITED WITH THE BRITISH CORPORATION REGISTER  
SURVEYS FOR FREEBOARD.  
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

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

<b>DEPTH FOR FREEBOARD (D).</b>	<b>DEPTH CORRECTION.</b>	<b>ROUND OF BEAM CORRECTION.</b>
Moulded depth ... .. <b>33.35</b>	(a) Where D is greater than Table depth (D-Table depth) R = <b>84</b> <b>(33.44 - 30.13) 3 = +9.27</b>	Moulded Breadth (B)
Stringer plate ... .. <b>.06</b>	(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 $T \left( \frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam =
Depth for Freeboard (D) = <b>33.35</b>		Difference <b>STANDARD.</b>
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right) = \text{NIL}$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	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		
$\frac{1}{8}L$ from A.P. ... ..		4					4		
$\frac{2}{8}L$ " ... ..		2					2		
Amidships ... ..		4					4		
$\frac{2}{8}L$ from F.P. ... ..		2					2		
$\frac{1}{8}L$ " ... ..		4					4		
F.P. ... ..		1					1		
Total ... ..									

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

If limited on account of midship superstructure.

**NIL.** If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft.

<b>Deduction for Tropical Freeboard.</b> <b>Addition for Winter and Winter North Atlantic Freeboard.</b>	<b>Deduction for Fresh Water.</b>	<b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required)	<b>87.72</b>
Depth to Freeboard Deck = <b>33.36</b>	Displacement in salt water at summer load water line	Correction for coefficient <b>NIL</b>	<b>87.72</b>
Summer freeboard = <b>6.87</b>	$\Delta =$	Depth Correction ... .. <b>9.84</b> ✓	<b>10.1.52</b>
Moulded draught (d) = <b>26.49</b>	Tons per inch immersion at summer load water line	Deduction for superstructures ... .. <b>15.12</b> ✓	<b>5.28</b>
Keel allowance =	T =	Sheer correction ... .. ✓	<b>5.28</b>
Extreme draught =	Deduction = $\frac{\Delta}{40 T}$ inches	Round of Beam correction ... .. ✓	<b>5.28</b>
Deduction for Tropical freeboard and addition for	=	Correction for Thickness of Deck amidships ... .. ✓	<b>5.28</b>
Winter freeboard = $\frac{d}{4}$ inches =		Other corrections, scantlings, etc. ... .. ✓	<b>5.28</b>
Addition for Winter North Atlantic Freeboard (if required) =		<b>9.84 + 15.12 = 24.96</b>	<b>24.96</b>
		Summer Freeboard = <b>81.36</b>	<b>81.36</b>

## 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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