

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name FUJI-MARU	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
Moulded Dimensions: Length <u>105.300 M.</u> Breadth <u>15.50 M.</u> Depth <u>8.00 M.</u>				
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons				
Coefficient of fineness for use with Tables <u>72. Estimated</u>				

Port of Survey _____

Date of Survey 6-2-50

Surveyor's Signature _____

Particulars of Classification _____

DEPTH FOR FREEBOARD (D).

Moulded depth	8.000
Stringer plate	0.012
Sheathing on exposed deck	
$T \frac{(L-S)}{L} =$	
Depth for Freeboard (D)	<u>8.012</u>

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D - Table depth) R = $8.33(8.012 - 7.020) = +220$

(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)	15.50 M.
Standard Round of Beam = $\frac{B \times B}{50}$	310
Ship's Round of Beam	310
Difference	NIL
Restricted to	
Correction = $\frac{\text{Diff.}}{4} \times (1 - \frac{S}{L})$	NIL

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	5.880	5.880	2.150	✓	5.880
„ overhang			✓		
R.Q.D. enclosed					
„ overhang					
Bridge enclosed	47.367	47.367	2.400	✓	47.367
„ overhang aft					
„ overhang forward					
Fore enclosed	8.420	8.420	2.100	$\frac{2100}{2122}$	8.332
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ forward					
Total	61.667	61.667			61.579

Standard Height of Superstructure 2122

„ „ R.Q.D. _____

Deduction for complete superstructure 975

Percentage covered $\frac{S}{L} = 58.57$

„ „ $\frac{S_1}{L} = 58.48$

Percentage from Table, Line A. _____

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. 44.48

(corrected for absence of forecastle (if required))

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

Deduction = $975 \times 44.48 = -434$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	1131	1	1131	1010	1010	1	1010		
$\frac{1}{2}L$ from A.P.	503	4	2012	449	449	4	1796		
$\frac{3}{4}L$ „	124	2	248	111	111	2	222		
Amidships	✓	4	✓	✓	✓	4	✓		
$\frac{3}{4}L$ from F.P.	249	2	498	263	263	2	526		
$\frac{1}{2}L$ „	1007	4	4028	1066	1066	4	4264		
F.P.	2262	1	2262	2395	2395	1	2395		
Total		✓	10179			✓	10213		

Mean actual sheer aft = DEFICIENT 89.3

Mean standard sheer aft = _____

Mean actual sheer forward = EXCESS

Mean standard sheer forward = _____

Length of enclosed superstructure forward of amidships = _____

„ „ aft of „ = _____

STAND. AFT.	ACTUAL AFT.	STAND. FWD.	ACTUAL FWD.
1131	1010	1131	1010
503	449	503	449
124	111	124	111
✓	✓	✓	✓
	2690		2690
	3012		3012
	89.3		89.3

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{34}{18} \left(.75 - \frac{2929}{4571} \right) = -1$

If limited on account of midship superstructure.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck	=	8.012
Summer freeboard	=	1.228
Moulded draught (d)	=	6.784
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 $\frac{721.69}{136} = 1.40$

	+	-
Depth Correction	220	✓
Deduction for superstructures	✓	434
Sheer correction	✓	1
Round of Beam correction	✓	✓
Correction for Thickness of Deck amidships	✓	✓
Other corrections, scantlings, etc.	✓	✓
	220	435
Summer Freeboard =	1228	

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	„

