

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
 (COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
FUJI-MARU				
<p>Port of Survey.....</p> <p>Date of Survey 6-2-50</p> <p>Surveyor's Signature.....</p> <p>Particulars of Classification.....</p>				
<p>Moulded Dimensions: Length 105.300 M. Breadth 15.50 M. Depth 8.00 M.</p> <p>Moulded displacement at moulded draught = 85 per cent. of moulded depth tons</p> <p>Coefficient of fineness for use with Tables 72. Estimation</p>				

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth 8.000	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	15.50 M.
Stringer plate	12.25 ft 0.12	8.33 (8.072 - 7.020) 26.592 = + 220. ✓		Standard Round of Beam = $\frac{B \times 12}{50} =$	310.
Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam	310 ✓
$T \left(\frac{L-S}{L} \right) =$	✓	(Table depth-D) R =		Difference	NIL.
Depth for Freeboard (D)	8.012. ✓	If restricted by superstructures	✓	Restricted to	
				Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$	NIL.

	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 <i>Equiv</i> ...	47.367	47.367	2.400	✓	47.367
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	8.420	8.420	2.100	2100/2122	8.332
" overhang ...			✓		
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	61.667	61.667			61.579

Standard Height of Superstructure 2122 m/m ✓

" " R.Q.D. ✓

Deduction for complete superstructure 975 m/m ✓

Percentage covered $\frac{S}{L} =$ $\frac{S_1}{L} =$ $\frac{E}{L} =$ 58.57 ✓

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 × 44.48 = -434 ✓

10

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	1131	1	1131	1010	1010	1	1010
$\frac{1}{6}$ L from A.P. ...	503	4	2012	449	449	4	1796
$\frac{2}{6}$ L " ...	124	2	248	111	111	2	222
Amidships ...	✓	4	✓	✓	✓	4	✓
$\frac{3}{6}$ L from F.P. ...	249	2	498	263	263	2	526
$\frac{1}{6}$ 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 =)

L

aft of " =)

STAND. AFT.		ACTUAL AFT.	
1131	1	1010	1
503	3	1509	3
124	2	248	2
		2690	
		3012	

89.3

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{34}{18} \left(.75 - \frac{2229}{4571} \right) = -1$

If limited on account of midship superstructure.

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

If limited on account of midship superstructure.		47.																									
Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.		Deduction for Fresh Water.																									
Depth to Freeboard Deck = 8.012 Ft.	Displacement in salt water at summer load water line	TABULAR FREEBOARD corrected for Flush Deck (if required) $\frac{72+68}{136} = \frac{140}{136}$																									
Summer freeboard = 1.228	$\Delta =$	Correction for coefficient																									
Moulded draught (d) = 6.784	Tons per inch immersion at summer load water line	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;"></th> <th style="width: 25%;">+</th> <th style="width: 25%;">-</th> </tr> <tr> <td>Depth Correction</td> <td>220</td> <td>✓</td> </tr> <tr> <td>Deduction for superstructures</td> <td>✓</td> <td>434</td> </tr> <tr> <td>Sheer correction</td> <td>✓</td> <td>1</td> </tr> <tr> <td>Round of Beam correction</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td>✓</td> <td>✓</td> </tr> <tr> <td></td> <td>220</td> <td>435</td> </tr> </table>			+	-	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
	+	-																									
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Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =	Deduction = $\frac{\Delta}{40}$ T inches =	1402. ✓ 1443. ✓																									
Addition for Winter North Atlantic Freeboard (if required) =	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	"

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.

2475

2003

377

3

3

2475

2600

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



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Foundation