

TIMBER.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name YUKIKAWA MARU	Official Number	Nationality and Port of Registry JAPAN. KOBE.	Gross Tonnage 4502	Date of Build 1941	Port of Survey _____
Moulded Dimensions: Length 112.250 Breadth 15.800 Depth 9.016					Date of Survey 29.9.50
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature _____
Coefficient of fineness for use with Tables .732					Particulars of Classification _____

<p>DEPTH FOR FREEBOARD (D).</p> <p>Moulded depth</p> <p>Stringer plate</p> <p>Sheathing on exposed deck</p> <p>$T \left(\frac{L-S}{L} \right) =$</p> <p>Depth for Freeboard (D) = 9.026</p>	<p>DEPTH CORRECTION.</p> <p>(a) Where D is greater than Table depth (D-Table depth) R = + 364 -/-</p> <p>(b) Where D is less than Table depth (if allowed) (Table depth-D) R =</p> <p>If restricted by superstructures <input checked="" type="checkbox"/></p>	<p>ROUND OF BEAM CORRECTION.</p> <p>Moulded Breadth (B)</p> <p>Standard Round of Beam = $\frac{B \times 12}{50} =$</p> <p>Ship's Round of Beam =</p> <p>Difference</p> <p>Restricted to</p> <p>Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ + 2 -/-</p>
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure 2192 -/-
" overhang						" " R.Q.D. _____
R.Q.D. enclosed						Deduction for complete superstructure 1013 -/-
" overhang						Percentage covered $\frac{S}{L} =$
Bridge enclosed						" " $\frac{S_1}{L} =$ 47.28
" overhang aft						" " $\frac{E}{L} =$
" overhang forward						Percentage from Table, Line TIMBER 67.55
F'cle enclosed						(corrected for absence of forecastle (if required)) <input checked="" type="checkbox"/>
" overhang						Percentage from Table, Line B. <input checked="" type="checkbox"/>
Trunk aft						(corrected for absence of forecastle (if required)) <input checked="" type="checkbox"/>
" forward						Interpolation for bridge less than .2L (if required) <input checked="" type="checkbox"/>
Tonnage opening aft						Deduction = 1013 x .6755 = - 684 -/-
" " forward						
Total	53.070	53.070			53.070	

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	
$\frac{2}{8}L$ "		2				2	
Amidships		4				4	
$\frac{2}{8}L$ from F.P.		2				2	
$\frac{1}{4}L$ "		4				4	
F.P.		1				1	
Total							

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

If limited on account of midship superstructure.

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

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = 9.026 Ft.</p> <p>Summer freeboard = 1.306</p> <p>Moulded draught (d) = 7.720</p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{48}$ inches = 161 -/-</p> <p>Addition for Winter North Atlantic Freeboard (if required) = $\frac{1}{36} \times 214 =$ 214 -/-</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>$\Delta =$</p> <p>Tons per inch immersion at summer load water line</p> <p>T =</p> <p>Deduction = $\frac{\Delta}{40 T}$ inches = 168 -/-</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient $1.412 / 1.36$</p> <table border="1"> <tr> <td></td> <td>+</td> <td>-</td> </tr> <tr> <td>Depth Correction</td> <td>364</td> <td>✓</td> </tr> <tr> <td>Deduction for superstructures</td> <td>✓</td> <td>684</td> </tr> <tr> <td>Sheer correction</td> <td>1</td> <td>✓</td> </tr> <tr> <td>Round of Beam correction</td> <td>.2</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>367</td> <td>684</td> </tr> <tr> <td></td> <td></td> <td>- 317</td> </tr> <tr> <td></td> <td colspan="2">Summer Freeboard = 1314</td> </tr> </table>		+	-	Depth Correction	364	✓	Deduction for superstructures	✓	684	Sheer correction	1	✓	Round of Beam correction	.2	✓	Correction for Thickness of Deck amidships	✓	✓	Other corrections, scantlings, etc.	✓	✓		367	684			- 317		Summer Freeboard = 1314	
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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	672 -/-	Tropical Fresh Water Freeboard	1306 -/-
Fresh Water Line	504 -/-	" Fresh Water	977 -/-
Tropical Line	504 -/-	" Tropical	1138 -/-
Winter Line	129 -/-	" Winter	1520 -/-
Winter North Atlantic Line	154 -/-	" Winter North Atlantic	1802 -/-
Summer Line	343 -/-		

3.10.1950

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Lloyd's Register Foundation

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