

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. 7102
(For London Office only).

Ship's Name <u>Komaki Maru</u>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <u>450</u> Breadth <u>61</u> Depth <u>40.06</u>					Date of Survey <u>26-9-40</u>
Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>15050</u> tons					Surveyor's Signature
Coefficient of fineness for use with Tables <u>.704</u>					Particulars of Classification <u>+10001 with freeboard</u>

Depth for Freeboard (D). Moulded depth ... <u>32.06</u> Stringer plate ... <u>.04</u> Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <u>32.10</u>	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(32.10 - 30.00) 3 = +6.30$ 2.10 (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ If restricted by superstructures	Round of Beam correction. Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = Difference <u>at least round</u> Restricted to Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <u>Nil</u>
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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. 42
 Deduction for complete superstructure 42
 Percentage covered $\frac{S}{L} =$
 „ „ $\frac{S_1}{L} =$
 „ „ $\frac{E}{L} =$
 Percentage from Table, Line A.
 (corrected for absence of forecastle (if required))
 Percentage from Table, Line B.
 (corrected for absence of forecastle (if required))
 Interpolation for bridge less than 2L (if required)
 Deduction = -42

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 ...							

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 = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ -.50
 If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <u>32.10</u> Summer freeboard = <u>4.37</u> Moulded draught (d) = <u>27.73</u> 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 = $\frac{\Delta}{40T}$ inches =	TABULAR FREEBOARD corrected for Fresh Deck (if required) Correction for coefficient $\frac{.704 + .05}{1.36} = \frac{1.384}{1.36}$ <table border="1"> <tr><td></td><td>+</td><td>-</td></tr> <tr><td>Depth Correction</td><td>6.30</td><td>-</td></tr> <tr><td>Deduction for superstructures</td><td>-</td><td>42.00</td></tr> <tr><td>Sheer correction</td><td>-</td><td>.50</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>6.30</td><td>42.50</td></tr> </table> Summer Freeboard = <u>52.44</u>		+	-	Depth Correction	6.30	-	Deduction for superstructures	-	42.00	Sheer correction	-	.50	Round of Beam correction	-	-	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	-	-		6.30	42.50
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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 ...	...	Tropical Fresh Water Freeboard ...	...
Fresh Water Line „ „ ...	...	Fresh Water „ „ ...	...
Tropical Line „ „ ...	...	Tropical „ „ ...	...
Winter Line below „ „ ...	...	Winter „ „ ...	...
Winter North Atlantic Line „ „ ...	...	Winter North Atlantic „ „ ...	...