

TIMBER.

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

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

**DEPTH FOR FREEBOARD (D).**

Moulded depth ... ..

Stringer plate ... ..

Sheathing on exposed deck

$T \left( \frac{L-S}{L} \right) =$

Depth for Freeboard (D) = **9.026**

**DEPTH CORRECTION.**

(a) Where D is greater than Table depth  
(D-Table depth) R = **+ 364 -/-**

(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)

Standard Round of Beam =  $\frac{B \times 12}{50} =$

Ship's Round of Beam =

Difference

Restricted to

Correction =  $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) = **+ 2 -/-**$

**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 ... ..	<b>53.070</b>	<b>53.070</b>			<b>53.070</b>

Standard Height of Superstructure **2192 -/-**

" " R.Q.D. \_\_\_\_\_

Deduction for complete superstructure **1013 -/-**

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

" "  $\frac{S_1}{L} =$  **47.28**

" "  $\frac{E}{L} =$

Percentage from Table, Line **A. TIMBER** **67.55**

(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 = **1013 × .6755 = - 684 -/-**

**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	
$\frac{2}{6}L$ " ... ..		2				2	
Amidships ... ..		4				4	
$\frac{2}{6}L$ 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 =

$\frac{L}{L}$

" " aft of " =

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.

**Deduction for Tropical Freeboard.**

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **9.026**

Summer freeboard = **1.306**

Moulded draught (d) = **7.720**

Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = **161 -/-**

Addition for Winter North Atlantic Freeboard (if required) =  $\frac{1}{36} \times 214 = **214 -/-**$

**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

= **168 -/-**

**TABULAR FREEBOARD** corrected for Flush Deck (if required)

Correction for coefficient

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. ... .. **✓**

1571
1631
1412 / 1.36
364
684
1
.2
367
684
- 317
Summer Freeboard = 1314

**Am.**

**29.2.50**

**SUMMER FREEBOARD** amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc **✓ 672 -/-**

Fresh Water Line " " **✓ 504 -/-**

Tropical Line " " **✓ 129 -/-**

Winter Line " " **✓ 154 -/-**

Winter North Atlantic Line below " **✓ 343 -/-**

Tropical Fresh Water Freeboard

Fresh Water " **✓**

Tropical " **✓**

Winter " **✓**

Winter North Atlantic " **✓**