

Scantlings

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

 Index No. **44662**
 (For London Office only.)

Ship's Name INO KAIUN KAINHA LTD N° 5.	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 105.5 Breadth 15.6 Depth 8.116 Moulded displacement at moulded draught = 85 per cent. of moulded depth 8036 Coefficient of fineness for use with Tables 708					Date of Survey 14.4.53 Surveyor's Signature A.R. Particulars of Classification +128A1 contemplation

DEPTH FOR FREEBOARD (D). Moulded depth ... 8.116 Stringer plate ... 9 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 8.125	DEPTH CORRECTION. (a) Where D is greater than Table depth $(D - \text{Table depth}) R$ $(8.125 - 7.093) 244 = 242$ (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) 156 Standard Round of Beam = $\frac{B \times 12}{50} = 302$ Ship's Round of Beam = 300 Difference 12 Restricted to Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{12^2}{4} \times \frac{5644}{1055} = 2$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	6.100				
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...	31.160				
„ overhang aft ...					
„ overhang forward ...					
F'cle enclosed ...	8.700				
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total ...	45.960				

Standard Height of Superstructure

„ „ R.Q.D.

Deduction for complete superstructure **976 m/m**Percentage covered $\frac{S}{L} =$ „ „ $\frac{S_1}{L} = 43.56$ „ „ $\frac{E}{L} =$ Percentage from Table, Line A. **26.52**
(corrected for absence of forecastle (if required))Percentage from Table, Line B. **30.52**
(corrected for absence of forecastle (if required))

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

Deduction = **976 x 30.52 = 298 m/m**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...		1			Scantlings		1		
$\frac{1}{8}L$ from A.P. ...		4					4		
$\frac{2}{8}L$ „ ...		2					2		
Amidships ...		4					4		
$\frac{3}{8}L$ from F.P. ...		2					2		
$\frac{1}{8}L$ „ ...		4					4		
F.P. ...		1					1		
Total ...									

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

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

 Depth to Freeboard Deck = **8.125**
 Summer freeboard = **1378**
 Moulded draught (d) = **6.747**
 Keel allowance =

Extreme draught =

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 Plank Deck (if required)

Correction for coefficient

	+	-
Depth Correction ...	242	
Deduction for superstructures ...	298	
Sheer correction ...	2	
Round of Beam correction ...		
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc. ...		
	242	300

Summer Freeboard = **1378**

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

 Tropical Fresh Water Line above Centre of Disc ...
 Fresh Water Line „ „ ...
 Tropical Line „ „ ...
 Winter Line below „ „ ...
 Winter North Atlantic Line „ „ ...

 Tropical Fresh Water Freeboard ...
 Fresh Water „ „ ...
 Tropical „ „ ...
 Winter „ „ ...
 Winter North Atlantic „ „ ...