

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name M.V. "NISSHUN MARU"	Official Number 73436	Nationality and Port of Registry TOKYO JAPAN	Gross Tonnage 9998.74	Date of Build MAY 1955	Port of Survey SHIMIZU
Moulded Dimensions: Length 153.00^M Breadth 21.00^M Depth 11.50^M					Date of Survey WHILE BUILT
Moulded displacement at moulded draught = 85 per cent. of moulded depth 25.590^M K tons					Surveyor's Signature <i>[Signature]</i>
Coefficient of fineness for use with Tables 0.795					Particulars of Classification +100A1

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth 11.50^M	(a) Where D is greater than Table depth (D—Table depth) R =	Moulded Breadth (B) 21.00^M
Stringer plate 0.032	(b) Where D is less than Table depth (if allowed) (Table depth—D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ 0	If restricted by superstructures	Ship's Round of Beam = 0.400^M
Depth for Freeboard (D) = 11.532		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed	38.33^M	38.33	2.45^M			Standard Height of Superstructure 2.29
„ overhang						„ „ R.Q.D.
R.Q.D. enclosed						Deduction for complete superstructure
„ overhang						Percentage covered $\frac{S}{L} =$
Bridge enclosed						„ „ $\frac{S_1}{L} =$
„ overhang aft						„ „ $\frac{E}{L} =$
„ overhang forward						Percentage from Table, Line A. (corrected for absence of forecastle (if required))
Fore enclosed	23.00	23.00	2.45			Percentage from Table, Line B. (corrected for absence of forecastle (if required))
„ overhang						Interpolation for bridge less than 2L (if required)
Trunk aft						Deduction =
„ forward						
Tonnage opening aft... ..						
„ „ forward						
Total	61.33	61.33				

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product	
A.P.		1		0.319^M		1		Mean actual sheer aft =
$\frac{1}{6}L$ from A.P.		4		0.016		4		Mean standard sheer aft =
$\frac{2}{6}L$ „		2		0		2		Mean actual sheer forward =
Amidships		4		0		4		Mean standard sheer forward =
$\frac{2}{6}L$ from F.P.		2		0		2		Length of enclosed superstructure forward of amidships =
$\frac{1}{6}L$ „		4		0.019		4		„ „ aft of „ =
F.P.		1		0.430		1		
Total								

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

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 = Ft. Summer freeboard = Moulded draught (d) = 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 $\Delta = 21,140.0^K$ Tons (P=1.025) at 8.23 ^M draft Tons per inch immersion at summer load water line $T = 28.31^K$ Tons/cm Deduction = $\frac{\Delta}{40T}$ inches =	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient Depth Correction Deduction for superstructures Sheer correction Round of Beam correction Correction for Thickness of Deck amidships Other corrections, scantlings, etc. Summer Freeboard =
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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 „ „

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.

44842

Trade of ship..... INTER NATIONAL

Names of sister ships..... M.V. " NICHIRYU MARU "

Builder's name and yard number..... SHIMIZU SHIPYARD, NIPPON KOKAN K.K.

Owners..... NISSAN KISEN K.K.

Fee £.....



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Foundation