

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

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Ship's Name NASSAU DUNMORE	Official Number 196384	Nationality and Port of Registry NETHERLANDS THE HAGUE SYDNEY N.S.W.	Gross Tonnage 659	Date of Build 1944	Port of Survey SINGAPORE
Moulded Dimensions: Length 54.41 m Breadth 9.144 m Depth 4.115 m <i>to top of channel</i>					Date of Survey DURING CLASSIFICATION SURVEY
Freeboard Length 54.41 m					Surveyor's Signature R.J. DUND.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 1550 tons					Particulars of Classification 100 A1. PROPOSED FOR SERVICE ON N.S.W. COAST. <i>See later</i>
Coefficient of fineness for use with Tables .869					

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	... 4.115	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	9.144
Stringer plate	... NIL	8.33(4.115 - 3.627) 13.74 = 56 mm.		Standard Round of Beam = $\frac{B \times 12}{50}$	183
Wood Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam	NIL
$T \left(\frac{L-S}{L} \right) =$		If restricted by superstructures		Difference	183
Depth for Freeboard (D) =	4.115			Restricted to	
				Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right)$	183 \times .6751 = +31 mm

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	11.735	11.735	2.362		11.735
„ overhang aft					
„ overhang forward					
Fore enclosed	5.943	5.943	2.032		5.943
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ forward					
Total	17.678	17.678			17.678

Standard Height of Superstructure **1.83 m**

„ „ R.Q.D. _____

Deduction for complete superstructure **606 mm**

Percentage covered $\frac{S}{L} =$ } **32.49**

„ „ $\frac{S_1}{L} =$ }

„ „ $\frac{E}{L} =$ }

Percentage from Table, Line A. **17.11**
 (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 = **.1711 x 606 = -104 mm**

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P. ...	707	1	707			1	
$\frac{1}{8}L$ from A.P. ...	314	4	1256			4	
$\frac{2}{8}L$ „ ...	79	2	158			2	
Amidships ...	0	4	0			4	0
$\frac{2}{8}L$ from F.P. ...	137	2	314			2	
$\frac{1}{8}L$ „ ...	629	4	2516			4	
F.P. ...	1415	1	1415			1	
Total ...			6366				NIL

Mean actual sheer aft = **DEFICIENT.**

Mean standard sheer aft =

Mean actual sheer forward = **DEFICIENT**

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = } **DEFICIENT SHEERS.**

„ „ aft of „ = }

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{6366}{18} \left(.75 - .1625 \right) = + 208$

If limited on account of midship superstructure. **5875** 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 = **4.115**

Summer freeboard = **.760**

Moulded draught (d) = **3.355**

Keel allowance =

Extreme draught =

Deduction for Tropical freeboard and addition for = **23/4**

Winter freeboard = $\frac{d}{4}$ inches = **10.2875**

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

= **8 cm**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient	1.36	1.36	
Depth Correction	56	✓	
Deduction for superstructures	104	✓	
Sheer correction	208	✓	
Round of Beam correction	31	✓	
Correction for Thickness of Deck amidships			
Other corrections, scantlings, etc.			
295	104	191	

Summer Freeboard = **755**

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

AMERICAN BUREAU	Tropical Fresh Water Line above Centre of Disc	NOT ASSIGNED	Tropical Fresh Water Freeboard	74 cm
FREEBOARDS	Fresh Water Line	3/4" 80 mm	Fresh Water	66 cm
REASSIGNED, 1912	Tropical Line	NOT ASSIGNED	Tropical	NOT ASSIGNED
	Winter Line	23/4" 80 mm	Winter	NOT ASSIGNED
	Winter North Atlantic Line	NOT ASSIGNED	Winter North Atlantic	NOT ASSIGNED