

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

F 1035A (SNG.)

Ship's Name "DUNMORE" "NASSAU"	Official Number 196384	Nationality and Port of Registry NETHERLAND THE HAGUE SYDNEY N.S.W.	Gross Tonnage 659	Date of Build 1944	Port of Survey Singapore
Moulded Dimensions: Length 182.4' Breadth 30.0' Depth 13.5' To CR. of Rudder Stock 54.41M 9.145M 4.12M					Date of Survey During Relativistic Survey
Moulded displacement at moulded draught = 85 per cent. of moulded depth 1550 (METRIC) tons					Surveyor's Signature R. J. Dunn
Coefficient of fineness for use with Tables .868					Particulars of Classification 100 A1 for service on N.S.W. coast.

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 4.12	(a) Where D is greater than Table depth (D-Table depth) R = $8.33(4.12-3.627)13.74$ = +63.3 mm	Moulded Breadth (B) 9.145M
No. Stringer plate ... Deck 40: .06	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = ✓	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{109.74}{50} = 2.1948$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures ✓	Ship's Round of Beam = nil
Depth for Freeboard (D) = 4.18M		Difference 183 mm
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{183^2}{4} \times \left(1 - \frac{.6319}{9.145} \right) = +28 \text{ mm}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed <i>After Bridge</i>	14.83M	14.83	2.362	✓	14.83
" overhang	3.10	2.33	7' 9"		2.33
R.Q.D. enclosed	✓	✓			
" overhang	✓	✓			
Bridge enclosed	✓	✓			
" overhang aft	✓	✓			
" overhang forward	✓	✓			
F'cle enclosed	5.97	5.97	10' 10"	✓	5.97
" overhang	✓	✓	2.032		
Trunk aft	✓	✓			
" forward	✓	✓			
Tonnage opening aft	✓	✓			
" " forward	✓	20.03			20.03
Total	20.80	20.80			20.80

Standard Height of Superstructure	1.83
" " R.Q.D.	✓
Deduction for complete superstructure	606 mm
Percentage covered $\frac{S}{L} =$	38.23
" " $\frac{S_1}{L} =$	38.23
" " $\frac{E}{L} =$	36.81
Percentage from Table, Line A. (corrected for absence of forecastle (if required))	21.99
Percentage from Table, Line B. (corrected for absence of forecastle (if required))	20.79
Interpolation for bridge less than .2L (if required) ✓	
Deduction = $606 \times \frac{21.99}{20.79} = -133 \text{ mm}$	-133 mm
	-126 mm

Designed from load condition 0" by *Allen***SHEER CORRECTION.**

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	70.72	1		70.72			1		
$\frac{1}{2}L$ from A.P.	31.43	4		125.72			4		
$\frac{3}{4}L$ "	7.858	2		15.72			2		
Amidships		4					4		
$\frac{3}{4}L$ from F.P.	15.72	2		31.44			2		
$\frac{1}{2}L$ "	62.87	4		251.48			4		
F.P.	141.48	1		141.48			1		
Total				636.56					

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{636.56}{18} \left(.75 - \frac{19.12}{55.88} \right) = +19.76 \text{ mm}$

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.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line $\Delta = 149.8 \text{ tons}$	Correction for coefficient $\frac{868 + .68}{1.36} = \frac{1548}{1.36}$
Depth to Freeboard Deck = 4.18	Tons per inch immersion at summer load water line $T = 4.76$	Depth Correction ... 63
Summer freeboard = .74	Deduction = $\frac{\Delta}{40 T} \text{ inches} = \frac{149.8}{40 \times 4.76} = 78 \text{ mm}$	Deduction for superstructures ... 126
Moulded draught (d) = 3.44		Sheer correction ... 198
Deduction for Tropical freeboard and addition for		Round of Beam correction ... 29.28
Winter freeboard = $\frac{d}{4} \text{ inches} = 74 \text{ mm}$		Correction for Thickness of Deck amidships ... 15
Addition for Winter North Atlantic Freeboard (if required) =		Other corrections, scantlings, etc. ... 13
		Summer Freeboard = 740

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

Tropical Fresh Water Line above Centre of Disc	... 150 mm	Tropical Fresh Water Freeboard	... 390 mm
Fresh Water Line	... 80 mm	Fresh Water	... 660 mm
Tropical Line	... 80 mm	Tropical	... 660 mm
Winter Line below	... 70 mm	Winter	... 810 mm
Winter North Atlantic Line	... 120 mm	Winter North Atlantic	... 860 mm

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.

Sign

39408

Trade of ship confined to N.S.W. (Australia) coast - "Cargo"

Names of sister ships EL KARIM (stated to be)

Builder's name and yard number Odenbach S.B. Co.

Owners Red Sea Guinea Petroleum Co.

Fee £.....



© 2021

Lloyd's Register
Foundation