

Empire Hail 36464.
etc except for absence
of forecastle.

Lloyd's Register of Shipping.

Index. No. 36639
(For London Office only).

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

GRK. REPORT N° 21565.

Ship's Name **CLINTONIA** Official Number **168968** Nationality and Port of Registry **BRITISH GREENOCK NORTH SHIELDS** Gross Tonnage **6978 APPROX 7000** Date of Build **1941** Port of Survey **GREENOCK**

Surveyor's Signature **Kenneth Hughes**

Particulars of Classification **+100 A1. WITH FREEBOARD (CONTD.)**

Moulded Dimensions: Length **425'-6 1/2"** Breadth **56'** Depth **27'-9"** Tonnage **16400**

Moulded displacement at moulded draught = 85 per cent. of moulded depth **11985** tons

Coefficient of fineness for use with Tables **.769.**

Depth for Freeboard (D).		Depth correction.		Round of Beam correction.	
Moulded depth	36.83	(a) Where D is greater than Table depth (D - Table depth) R =	36.90 - 28.39 = + 25.53"	Moulded Breadth (B)	56
Stringer plate	27.78	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	8.51	Standard Round of Beam = $\frac{B \times 12}{50}$	13.44"
Sheathing on exposed deck	27.78	If restricted by superstructures	✓	Ship's Round of Beam	14"
T $\left(\frac{L-S}{L}\right) = \frac{1}{8}$ COMPOSITION.	✓			Difference	.56
4 FT OF FRAME 18				Restricted to	✓
Depth for Freeboard (D) =	36.90			Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right)$	$\frac{.56}{4} \times 1181 = -13"$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
Fore enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total					

Standard Height of Superstructure **7.5'**

" " R.Q.D. **42.00"**

Deduction for complete superstructure

Percentage covered $\frac{S}{L} =$ **Nie.**

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

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

Percentage from Table, Line A. ✓

(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 = **Nie.**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	52.59	1		52.59	54	54	1		54
1/4 L from A.P.	13.40	4		93.60	24	24	4		96
1/2 L	5.785	2		11.57	6	6	2		12
Amidships	-	4		-	0	-	4		-
3/4 L from F.P.	11.57	2		23.14	12	12	2		24
3/4 L	46.805	4		187.22	48	48	4		192
F.P.	105.18	1		105.18	108	108	1		108
Total				473.30					486

Mean actual sheer aft = **Excess**

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = **7.5'**

" " aft of " = **7.5'**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{.2L} \right) = \frac{12.7}{18} \times .75 = -.53"$

If limited on account of midship superstructure. **No.**

If limited to maximum allowance of 1 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	$\Delta = 27 - 13975$	Correction for coefficient	$.74 + .63 = 1.37$
Depth to Freeboard Deck =	36.90	Tons per inch immersion at summer load water line	$T = 27 - 48.33$	Depth Correction	25.53
Summer freeboard =	10.71	Deduction = $\frac{\Delta}{40 T}$ inches	7.04	Deduction for superstructures	53
Moulded draught (d) =	26.11			Sheer correction	13.14
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =	6.52 = 6 1/2"			Round of Beam correction	13.00
Addition for Winter North Atlantic Freeboard (if required) =				Correction for Thickness of Deck amidships	1.79
				Other corrections, scantlings, etc.	38.53
				Summer Freeboard =	129.50

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

Tropical Fresh Water Line above Centre of Disc	13 1/2"	343 m/m	Tropical Fresh Water Freeboard	10' 9 1/2"	3289 m/m
Fresh Water Line	7"	178 m/m	Fresh Water	10' 8"	2946 m/m
Tropical Line	6 1/2"	165 m/m	Tropical	10' 2 1/2"	3111 m/m
Winter Line below	6 1/2"	165 m/m	Winter	10' 3"	3124 m/m
Winter North Atlantic Line			Winter North Atlantic	11' 4"	3454 m/m

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.

Trade of ship

International

Names of sister ships

Y1 Type. Lithgow Ltd No 939 Empire Frost Greenock report No 21147.
but forecastle has now been omitted

Builder's name and yard number

Lithgow Ltd No 958.

Owners

The Ministry of War Transport.

Approve

Fee £

18 0 0

to be rendered with first entry.



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