

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR ^{MOTOR}STEAMER, SAILING SHIP, TANKER.)

GRK. REPORT NO. 21266.

Ship's Name "CAPE HAWKE" KALLIOPI	Official Number 168672	Nationality and Port of Registry BRITISH GLASGOW.	Gross Tonnage APPROX. 5100 5080.50	Date of Build NOW BUILDING. 1940.	Port of Survey PORT GLASGOW
Moulded Dimensions: Length 425.58 ✓ Breadth 56.0 ✓ Depth 27.9 ✓ ^{36.9' TO UPPER DK} _{2ND "} ✓					Date of Survey WHILE BUILDING.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 11661 ✓ tons					Surveyor's Signature <i>J.A. Jamison</i>
Coefficient of fineness for use with Tables 726.					Particulars of Classification +100 A.I. WITH FREEBOARD (CONTEMPLATED)

Depth for Freeboard (D). Moulded depth ... 27.75 Stringer plate 1/4" AFT OF FRAME 18 2 1/2" WOOD DECK. Sheathing on exposed deck ✓ $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 27.78	Depth correction. (a) Where D is greater than Table depth (D-Table depth) R = ✓ (b) Where D is less than Table depth (if allowed) (Table depth-D) R = $(28.37 - 27.78) 3 = -1.77$ If restricted by superstructures 59	Round of Beam correction. Moulded Breadth (B) 56' ✓ Standard Round of Beam = $\frac{B \times 12}{50} =$ 13.44 Ship's Round of Beam = 14' ✓ Difference 56 Restricted to Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{56^2}{4} \times 0.006 = \text{Nil}$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	42.72 ✓	42.72	9'0"	✓	42.72	
„ overhang ...	✓					
R.Q.D. enclosed ...	✓					
„ overhang ...	✓					
Bridge enclosed... PLUS ...						
„ overhang aft ...	377.7 ✓	377.70	9'0"	✓	377.70	
„ overhang forward ...						
F'cle enclosed ...						
„ overhang ...						
Trunk aft ...	✓	$\frac{1}{2} \times \text{diff}$				
„ forward ...	✓					
Tonnage opening aft ...	5.16 ✓	1.58	9'0"	✓	1.58	
„ „ forward						
Total ...	425.58	423.00			423.00	

Standard Height of Superstructure	7.5'
„ „ R.Q.D.	
Deduction for complete superstructure	42.00
Percentage covered $\frac{S}{L} =$	100.00
„ „ $\frac{S_1}{L} =$	99.40
„ „ $\frac{E}{L} =$	99.40
Percentage from Table, Line A.	99.26
(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 =	42 x 99.26 = 41.69

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	
A.P. ...	52.56	1	52.56	54.75 ✓	72.75	1	72.75	
1/4 L from A.P. ...	23.39	4	93.56	24.40 ✓	32.37	4	129.48	
1/2 L „ ...	5.78	2	11.56	6.00 ✓	8.00	2	16.00	
Amidships ...	-	4	-	0	-	4	-	
3/4 L from F.P. ...	11.56	2	23.12	12.00 ✓	13.86	2	27.72	
1/4 L „ ...	46.78	4	187.12	48.00 ✓	56.07	4	224.28	
F.P. ...	105.12	1	105.12	108.00 ✓	126.00	1	126.00	
Total ...			473.04	+18			596.23	

Mean actual sheer aft	= Excess
Mean standard sheer aft	
Mean actual sheer forward	= Excess
Mean standard sheer forward	
Length of enclosed superstructure forward of amidships =	L
„ „ aft of „ =	c.s.s.

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{123.19}{18} \times 25 = -1.71$

If limited on account of midship superstructure. ✓

If limited to maximum allowance of 1 1/2 ins. per 100 ft. ✓

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **27.78**
Summer freeboard = **3.08**
Moulded draught (d) = **24.70**

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **6.17 = 6 1/4**
Addition for Winter North Atlantic Freeboard (if required) = ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line **24' = 11909**
25' = 12472
Tons per inch immersion at summer load water line **24' = 46.50**
25' = 46.92
Deduction = $\frac{\Delta}{40T}$ inches = **6.57**
= **6 1/2**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **726 + 68 = 1.406 / 1.36**

Depth Correction ... **1.77**
Deduction for superstructures ... **41.69**
Sheer correction ... **1.71**
Round of Beam correction ...
Correction for Thickness of Deck amidships ...
Other corrections, scantlings, etc. ...

Summer Freeboard = **37.05**

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

Tropical Fresh Water Line above Centre of Disc ... **12 3/4**
Fresh Water Line „ „ ... **6 1/2**
Tropical Line „ „ ... **6 1/4**
Winter Line below „ „ ... **6 1/4**
Winter North Atlantic Line „ „ ... ✓

Tropical Fresh Water Freeboard ... **21-0 1/4**
Fresh Water „ „ ... **21-6 1/2**
Tropical „ „ ... **21-6 3/4**
Winter „ „ ... **31-7 1/4**
Winter North Atlantic „ „ ... ✓

31 JAN 1941

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 "CAPE CLEAR"

Builder's name and yard number LITHGOWS LIMITED. N^o 930.

Owners CAPE YORK MOTORSHIP CO (LYLE SHIPPING CO. MGRS)

Fee £ 16-0-0 APPROX.

TO BE RENDERED WITH FIRST ENTRY.



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