

Lloyd's Register of Shipping.  
SURVEYS FOR FREEBOARD.

No. 101479

Computation of Freeboard for Steamer, Sailing Ship, Tanker  
having *Raised quarter deck, Bridge deck, and Forecastle*Port of Survey *Birkenhead*Date of Survey *8th Dec. 1932*Name of Surveyor *C.H. Dean*Particulars of Classification *H 100 A.1.*  
*55 Kew No 2.28*

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

*"MARGARET LOCKINGTON"**British*  
*Dundalk**126962**460**1921*  
*1 mo.*Moulded Dimensions: Length *152.00'* Breadth *25.00'* Depth *12.00'*  
Moulded displacement at moulded draught = 85 per cent. of moulded depth  
Coefficient of fineness for use with Tables *.688*

## Depth for Freeboard (D)

Moulded depth ... *12.00'*Tringer plate ... *.03*

Sheathing on exposed deck

 $T \left( \frac{L-S}{L} \right) =$ Depth for Freeboard (D) = *12.03'*

## Depth correction

(a) Where D is greater than Table depth  
(D - Table depth) R =*(12.03 - 10.13) 1.169 = + 2.22*(b) Where D is less than Table depth (if allowed)  
(Table depth - D) R =

If restricted by superstructures

## Round of Beam correction

Moulded Breadth (B) *28.00'*Standard Round of Beam =  $\frac{B \times 12}{50} =$  *6.72*Ship's Round of Beam = *6.72*

Difference

Restricted to

Correction =  $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right) =$  *.4 x .2224 = -.09*

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...	-	-	-	-	-
" overhang ...	-	-	-	-	-
R.Q.D. enclosed ...	<i>86.0</i>	<i>86.00</i>	<i>3.6</i>	-	<i>86.00</i>
" overhang ...	-	-	-	-	-
Bridge enclosed ...	<i>9.0</i>	<i>9.00</i>	<i>7.0</i>	-	<i>9.00</i>
" overhang aft ...	-	-	-	-	-
" overhang forward ...	-	-	-	-	-
Fore enclosed <i>49.0</i> ...	<i>20.3</i>	<i>21.40</i>	<i>7.0</i>	-	<i>21.40</i>
" overhang ...	<i>4.9</i>	<i>1.8</i>	-	-	<i>1.8</i>
Trunk aft ...	-	-	-	-	-
" forward ...	-	-	-	-	-
Tonnage opening aft ...	-	-	-	-	-
" forward ...	-	-	-	-	-
Total ...	<i>120.00</i>	<i>118.20</i>	-	-	<i>118.20</i>

Standard Height of Superstructure *6.00'*" " R.Q.D. *3.344'*Deduction for complete superstructure *21.20"*Percentage covered  $\frac{S}{L} =$  *78.94*"  $\frac{S_1}{L} =$  *44.46*"  $\frac{E}{L} =$  *44.46*Percentage from Table, Line A. *42.54*

(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 = *21.20 x .4254 = - 9.02*

## SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P. ...	<i>26.20</i>	<i>1</i>	<i>26.20</i>	<i>26.20</i>	<i>26.20</i>	<i>1</i>	<i>26.20</i>
$\frac{1}{2}$ L from A.P. ...	<i>11.66</i>	<i>4</i>	<i>46.64</i>	<i>11.66</i>	<i>11.66</i>	<i>4</i>	<i>46.64</i>
$\frac{3}{4}$ L " ...	<i>2.88</i>	<i>2</i>	<i>5.76</i>	<i>2.88</i>	<i>2.88</i>	<i>2</i>	<i>5.76</i>
Amidships ...	-	<i>4</i>	-	-	-	<i>4</i>	-
$\frac{3}{4}$ L from F.P. ...	<i>5.76</i>	<i>2</i>	<i>11.52</i>	<i>5.76</i>	<i>5.76</i>	<i>2</i>	<i>11.52</i>
$\frac{1}{2}$ L " ...	<i>23.32</i>	<i>4</i>	<i>93.28</i>	<i>23.32</i>	<i>23.32</i>	<i>4</i>	<i>93.28</i>
F.P. ...	<i>52.40</i>	<i>1</i>	<i>52.40</i>	<i>52.40</i>	<i>52.40</i>	<i>1</i>	<i>52.40</i>
Total ...	-	-	<i>235.80</i>	-	-	-	<i>235.80</i>

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{75-S}{2L} \right) =$  *9.21 (75 - 39.47) = - .18*

If limited on account of midship superstructure.

Mean actual sheer aft = *mass*

Mean standard sheer aft

Mean actual sheer forward = *mass*

Mean standard sheer forward

Length of enclosed superstructure forward of amidships = *7.10*" " aft of " = *7.10*Actual R.Q.D. Height = *3.5'*Standard " " = *3.344'*Difference = *.156*If limited to maximum allowance of  $\frac{1}{2}$  ins. per 100 ft.

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = *15.53'*Summer freeboard = *3.71'*Moulded draught (d) = *11.82'*

Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = *2.95 = 3"*Addition for Winter North Atlantic Freeboard (if required) = *5"*

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$  *928*

Tons per inch immersion at summer load water line

 $T =$  *7.66*Deduction =  $\frac{\Delta}{40 T}$  inches= *3.03*= *3"*

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient *.688 + .65 = 1.338**1.368**1.36*Depth Correction ... *2.22*Deduction for superstructures ... *15.38*Sheer correction ... *.18*Round of Beam correction ... *.03*Correction for Thickness of Deck amidships ... *42.00*

Other corrections, scantlings, etc. ...

Summer Freeboard = *44.50*

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

Tropical Fresh Water Line above Centre of Disc ...	<i>3.2</i>
Fresh Water Line " " ...	<i>3</i>
Tropical Line " " ...	<i>0.2</i>
Winter Line below " " ...	<i>3</i>
Winter North Atlantic Line " " ...	<i>5</i>

Tropical Fresh Water Freeboard ...	<i>3.8</i>
Fresh Water " " ...	<i>3.2</i>
Tropical " " ...	<i>3.8</i>
Winter " " ...	<i>3.1</i>
Winter North Atlantic " " ...	<i>4.1</i>

10 DEC 1932

5m.3.32.

MARKING FORM  
29 DEC 1932  
RECEIVEDMARKING FORM  
13 DEC 1932  
RECEIVEDLloyd's Register  
Foundation



Margaret Lockington

Particulars of Suppers and Sanitary Discharge Pipes :—

Particulars of Side Scuttles:—

Particulars of Guard Rails :—

Particulars of Gangways, Lifelines, etc. :—

\*Are wood fore and afters steel shod at all bearing surfaces? ✓  
Are battens and wedges efficient and in good condition? YES ✓  
Are tarpaulins in good condition and in accordance with rule requirements? YES ✓  
Are lashings provided in accordance with rule requirements? YES ✓

Particulars of fiddle, funnel and ventilator coamings:— THE FIDLEY GRATINGS ARE COVERED WITH EFFICIENT HINGED STEEL GRATES ✓  
THE FIDLEY VENTS & FUNNEL ARE GOOD. ✓ THE ENGINE ROOM SKYLIGHT IS OF STEEL & IS IN GOOD. ✓  
CONDITION. ✓  
BUNKER HATCH 15'4" x 6'8" - 6" B.A. COAMING CLEATS, BATTENS, COVERS & TARPULINS FITTED. ✓

Particulars of Flush Bunker Scuttles:—

-NONE-

Particulars of Companionways :—

- NONE - ✓

Particulars of Ventilators in exposed positions on freeboard and superstructure decks :—

2- ON FOLE HEAD - 36" HIGH - 6" DIA. TO FOLE.  
1- " " " - 36" " - 9" " " HOLD.  
1- " R.Q.D.R. - 36" " - 9" " " "  
*wood plugs canvas covers*

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks :—

To FORE PEAK TANK-ON FO'LE HEAD-6" ABOVE DE-2" DIA.  
To O. B. TANK-ON FORE WELL DE-36" " " -2½" "  
To A. PE " " R. Q. DE-18" ABOVE DE-2½" DIA. -  
*Wood plugs provided*

Particulars of Gangway Cargo and Coaling Ports :—

-NONE- ✓

Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
Starboard Well ... ..	86'-0"	2'-9"	4'0" x 9 1/2" 2'-0" x 1'-4"	3 } 3 }	80 86 17 1/2	17.2 94 ft
Forward Well ... ..	31'-6"	3'-0"	3'-0" x 1'-8"	2	10.5 5	9.65 10.00 5

State position of each freeing port ... .. } After Well:—  
 (F. and A. position and height above deck edge) } Forward Well:—  
 State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:—

Additional area where sheer is less than standard.

FREEING PORTS FITTED WITH FLAPS.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ... ..	-	-	-	-	-	-	-	-
Raised Quarter Deck Bulkhead ...						NONE	NONE	3'-6"
Bridge, After Bulkhead ... ..			3-2 1/2 x 30	-	Plk. TR	1-WOOD DOOR 62" x 20"	19"	7'-0"
Bridge, Forward Bulkhead ... ..			5-3 x 40 Plk.	-	Plk. FRB.	NONE	NONE	7'-0"
Forecastle Bulkhead ... ..	30	25	3 x 3 x 30	30	NONE	4-WOOD DOORS 84" x 22"	20	7'-0"
Trunk, Aft ... ..	-	-	-	-	-	-	-	-
Trunk, Forward ... ..	-	-	-	-	-	-	-	-
Exposed Machinery Casings on Deck <del>Exposed or</del> Raised Quarter Decks ...	35	25	3 x 2 1/2 x 25	30	SKTD. TOP.	6-STEEL DOORS 47" x 22"	21 x 25	6'-1"
Exposed Machinery Casings on Super- structure Decks ... ..	-	-	-	-	-	-	-	-
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances ... ..	-	-	-	-	-	-	-	-
Deckhouses on Flush Deck Ships ...	-	-	-	-	-	-	-	-

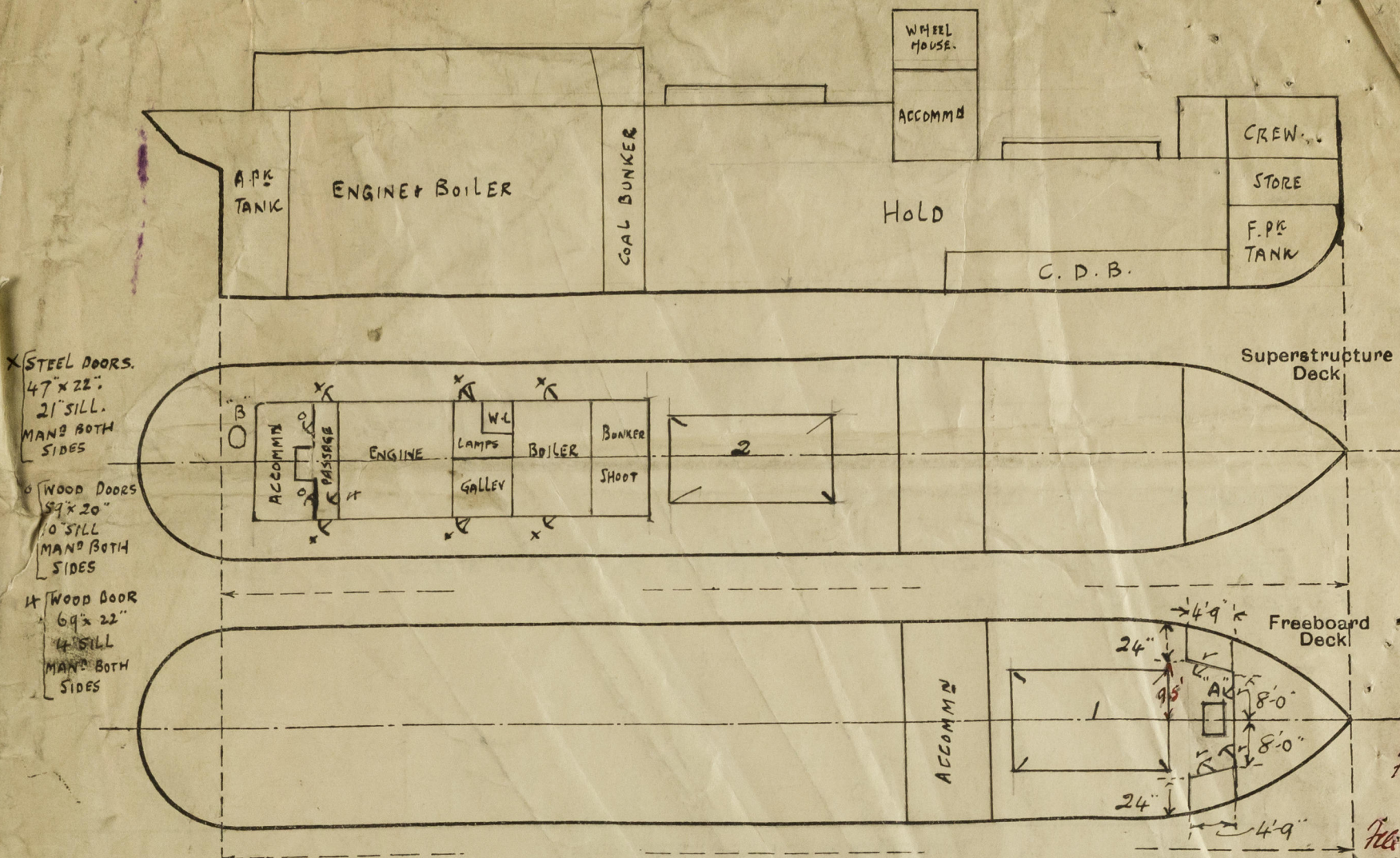
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead	...	...	...	✓
Raised Quarter Deck Bulkhead	...			- NONE - ✓
Bridge, After Bulkhead	...	...		WOOD HINGED DOOR - MANIPULATED BOTH SIDES. ✓
Bridge, Forward Bulkhead	...	...		- NONE - ✓
Forecastle Bulkhead	...	...		WOOD HINGED DOORS - MANIPULATED BOTH SIDES. ✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	...	...		STEEL HINGED DOORS - MANIPULATED BOTH SIDES. ✓
Exposed Machinery Casings on Superstructure Decks	...	...	...	-
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	...	...	...	-
Clockhouses on Flush Deck Ships	...			-

002269-002278-00992 1/2



Superstructure, bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, g-way, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



A HATCH - 21' x 21' - 30" STEEL COAMING - HATCH COVERS, BATTENS, CLEATS & TARPULINS FITTED  
 B - 18' x 15' - 6" STEEL - N.T. STEEL BOLTED COVER.

State any special features in the construction of the ship:—

PARTICULARS FROM DISPLACEMENT SCALE.

	DRAFT.	DISPLACEMENT.	T. P. I.
	12'-0"	937 TONS	7.6 TONS
L.D.	11'-9 1/2"	917 "	7.86 "
	11'-0"	846 "	7.46 "
	10'-6"	797 "	7.40 "
	10'-0"	757 "	7.33 "
	9'-6"	707 "	7.28 "

10.5	957
10.0	753
9.5	46
9.0	13
10.28	766
10.00	762
9.78	762

Vessel in drydock for completion of S.S. No. 3. Complete.

Plus from  
 12.15 x 75 = 9.1125 = 667  
 10.28 = 107  
 1.17.12 x 72 = 768  
 764

Builder's name and yard number Cochrane & Sons Ltd. No. 747.

Names of sister ships ✓

Owners Lockington S.S. Co. Ltd.

Fee £ 5 : 2 : 0

Received by me



© 2021

Lloyd's Register  
 Foundation