

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

12653.

Computation of Freeboard for Steamer, ~~Sailing Ship, Tug~~  
having POOP. BRIDGE. FORECASTLE.

(Type of Superstructures.)

Ship's Name <u>S/S MAPLEWOOD</u>	Nationality and Port of Registry <u>British</u> <u>Midalston</u>	Official Number <u>160728</u>	Gross Tonnage <u>4562</u>	Date of Build <u>1930</u>
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Moulded Dimensions: Length 382.0 Breadth 51.75 Depth 29.0  
Moulded displacement at moulded draught = 85 per cent. of moulded depth 10600 tons.  
Coefficient of fineness for use with Tables .761

Port of Survey Sharpness  
Date of Survey Mar 30<sup>th</sup>/32  
Name of Surveyor John L. Gwynne  
Particulars of Classification +100A1

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... .. <u>29.0</u>	(a) Where D is greater than Table depth (D - Table depth) R = <u>+10.49</u>	Moulded Breadth (B)
Stringer plate ... .. <u>.04</u>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam =
Depth for Freeboard (D) = <u>29.04</u>		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^*}{4} \times \left( 1 - \frac{S_1}{L} \right) =$ <u>-.04</u>

## 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 ... ..					
" overhang ... ..					
Bridge enclosed ... ..					
" overhang aft ... ..					
" overhang forward ... ..					
F'cle enclosed ... ..					
" overhang ... ..					
Trunk aft ... ..					
" forward ... ..					
Tonnage opening aft ... ..					
" forward ... ..					
Total ... ..	<u>182.55</u>	<u>182.06</u>			<u>182.06</u>

Standard Height of Superstructure	<u>7.32</u>
" " R.Q.D.	
Deduction for complete superstructure	<u>40.8</u>
Percentage covered $\frac{S}{L} =$	<u>47.78</u>
" " $\frac{S_1}{L} =$	<u>47.66</u>
" " $\frac{E}{L} =$	<u>47.66</u>
Percentage from Table, Line A.	<u>✓</u>
(corrected for absence of forecastle (if required))	
Percentage from Table, Line B. <u>Timber</u>	<u>67.79%</u>
(corrected for absence of forecastle (if required))	
Interpolation for bridge less than 2L (if required)	
Deduction =	<u>40.80 × .6779 = 27.66</u>

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ... ..		1					1		
$\frac{1}{4}$ L from A.P. ... ..		4					4		
$\frac{2}{4}$ L " ... ..		2					2		
Amidships ... ..		4					4		
$\frac{2}{4}$ L from F.P. ... ..		2					2		
$\frac{1}{4}$ L " ... ..		4					4		
F.P. ... ..		1					1		
Total ... ..									

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

If limited on account of midship superstructure. ✓

Mean actual sheer aft =	<u>See</u>
Mean standard sheer aft =	<u>See</u>
Mean actual sheer forward =	<u>See</u>
Mean standard sheer forward =	<u>See</u>
Length of enclosed superstructure forward of amidships =	<u>.13</u>
" " aft of " =	<u>.18</u>

-1.93

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 =	<u>29.04</u>	Δ =	<u>10835</u>
Summer freeboard =	<u>4.22</u>	Tons per inch immersion at summer load water line	
Moulded draught (d) =	<u>24.82</u>	T =	<u>39.52</u>

Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = 6.20  $\frac{6}{4}$   
 Addition for Winter  $\frac{2}{3}$  = 8.27  $\frac{8}{4}$   
 Addition for Winter North Atlantic Freeboard (if required) =

## Deduction for Fresh Water.

Displacement in salt water at summer load water line	
Tons per inch immersion at summer load water line	
T =	<u>39.52</u>

Deduction =  $\frac{\Delta}{40T}$  inches= 6.85  
= 6.85

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

Correction for coefficient

	+	-
Depth Correction ... ..	<u>10.49</u>	<u>-</u>
Deduction for superstructures ... ..	<u>-</u>	<u>27.66</u>
Sheer correction ... ..	<u>-</u>	<u>1.93</u>
Round of Beam correction ... ..	<u>-</u>	<u>.04</u>
Correction for Thickness of Deck amidships ... ..	<u>-</u>	<u>-</u>
Other corrections, scantlings, etc. ... ..	<u>-</u>	<u>-</u>
	<u>10.49</u>	<u>29.63</u>

Summer Freeboard = 50.87 79

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

Timber Tropical Fresh Water Line above Centre of Disc ...	<u>2</u> $\frac{2}{4}$ <u>Timber</u>	Tropical Fresh Water Freeboard ...	<u>3</u> $\frac{2}{4}$ <u>10</u>
" Fresh Water Line " " ...	<u>1</u> $\frac{8}{4}$ <u>✓</u>	Fresh Water " " ...	<u>3</u> $\frac{8}{4}$ <u>✓</u>
" Tropical Line " " ...	<u>1</u> $\frac{7}{4}$ <u>✓</u>	Tropical " " ...	<u>3</u> $\frac{8}{4}$ <u>✓</u>
" Winter Line " " ...	<u>5</u> $\frac{1}{4}$ <u>✓</u>	Winter " " ...	<u>4</u> $\frac{11}{4}$ <u>✓</u>
" Winter North Atlantic Line " " ...	<u>6</u> $\frac{1}{4}$ <u>✓</u>	Winter North Atlantic " " ...	<u>5</u> $\frac{10}{4}$ <u>✓</u>
" Summer " " ...	<u>1</u> $\frac{1}{2}$ <u>✓</u>		



# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS										
Description of Hatchway ... ..										
Dimensions of Hatchway ... ..										
COAMINGS	{	Height above Deck ...								
		Thickness { Sides ...								
		Ends ...								
		Stiffeners ... ..								
		Brackets, Stays ... ..								
HATCH BEAMS	{	Number ... ..								
		Spacing ... ..								
		Scantling and Sketch ...								
		Bearing Surface ... ..								
FORE AND AFTERS	{	Number ... ..								
		Spacing ... ..								
		Unsupported Lengths ...								
		Scantling* and Sketch ...								
		Bearing Surface ... ..								
HATCH COVERS	{	Material ... ..								
		Thickness ... ..								
		How fitted ... ..								
		Bearing Surface ... ..								
Spacing of Cleats ... ..										
Number of Tarpaulins ... ..										
*Are wood fore and afters steel shod at all bearing surfaces ? Are battens and wedges efficient and in good condition ? Are tarpaulins in good condition and in accordance with rule requirements ? Are lashings provided in accordance with rule requirements ?										

Particulars of fiddley, funnel and ventilator coamings :—

Particulars of Flush Bunker Scuttles :—

Particulars of Companionways :—

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

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

Particulars of Gangway Cargo and Coaling Ports :—





Particulars of Scuppers and Sanitary Discharge Pipes —

Particulars of Side Scuttles :

Particulars of Guard Rails :—

Particulars of Gangways, Lifelines, etc. :—

Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well ... ..						
Forward Well ... ..						
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.						

Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ... ..	✓							
Raised Quarter Deck Bulkhead ...	✓							
Bridge, After Bulkhead ... ..	✓							
Bridge, Forward Bulkhead ... ..	✓							
Forecastle Bulkhead ... ..	✓							
Trunk, Aft ... ..	✓							
Trunk, Forward ... ..	✓							
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...								
Exposed Machinery Casings on Super-structure Decks ... ..	✓	32	2½ x 3½	23"	Brackets at top	4'7" x 2½' x 3"	18½"	8'-0"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... ..	✓	32	2½ x 2½	23"	✓	24" x 26"	21"	8'-0"
Deckhouses on Flush Deck Ships ...	✓							

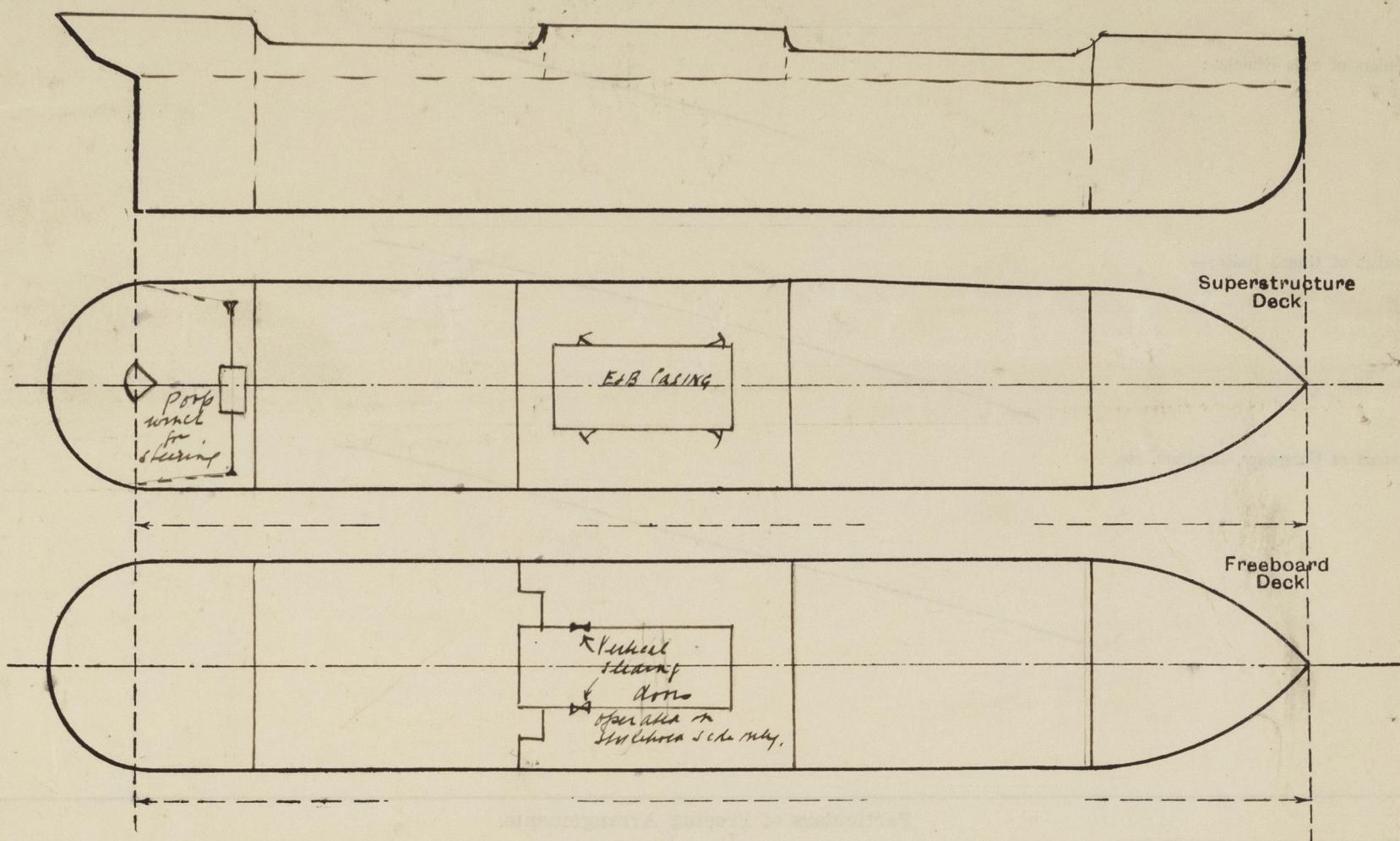
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ... ..	✓
Raised Quarter Deck Bulkhead ...	✓
Bridge, After Bulkhead ... ..	✓
Bridge, Forward Bulkhead ... ..	✓
Forecastle Bulkhead ... ..	✓
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	
Exposed Machinery Casings on Super-structure Decks ... ..	4 strong steel doors manipulated from both sides
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... ..	2 steel bulkhead sliding doors operated from starboard side only
Deckhouses on Flush Deck Ships ...	✓



Maplewood.

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, 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:—



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

Longitudinal sub-division of D.B. tanks except in Nos 1 & 6. ✓  
 Steering arrangements accessible except in way of the hatch coamings. ✓  
 Permanent bulwarks, stiffened on the upper edge & supported by strong bulwark stays. ✓  
 Efficient provision is made on the poop for steering in the event of a breakdown in the main steering arrangements. ✓  
 Sockets & eye plates are provided according to the Rules for the carriage of timber cargoes. ✓  
 \* Steering rods effectively protected by angle bridges & cope iron, & chains are covered with strong channels.

Builder's name and yard number.

Names of sister ships.

Owners Joseph Constantine & Co. Ltd.

Fee £ 12 : 15 : 0 Received by me

Exps 14-2

PA 5/14/32

applied for from note 25/5/32



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