

DISCLOSED SECTION
Index. No. 25509
(For London Office only.)
Cloyd's Register of Shipping.
12/8/32
SURVEYS FOR FREEBOARD. 393

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having Forecastle

Port of Survey London

Date of Survey 8 Aug. 1932 etc

(Type of Superstructures.)
Ship's Name Palmston Nationality and Port of Registry Bulish London Official Number 140,428 Gross Tonnage 430 Date of Build 1907-8

Name of Surveyor Thomas E. Sowden

Moulded Dimensions: Length 158.5 Breadth 31.0 Depth 9' 10"
Moulded displacement at moulded draught = 85 per cent. of moulded depth 882 tons
Coefficient of fineness for use with Tables 752

Particulars of Classification + A - Coasting
(Great Britain & Ireland etc)

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	9.83	(a) Where D is greater than Table depth (D - Table depth) R =		Moulded Breadth (B)	31.0
Stringer plate .40"	.03	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	7.44
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	-			Ship's Round of Beam	8
Depth for Freeboard (D) =	9.86	If restricted by superstructures	YES	Difference	56
				Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{56}{4} \times \frac{891}{L} = 12$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
Trunk aft ...					
Trunk forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	17.26	17.26			11.50

Standard Height of Superstructure 6.00
" " R.Q.D. 21.85
Deduction for complete superstructure 21.85
Percentage covered $\frac{S}{L} = 10.89$
" $\frac{S_1}{L} = 10.89$
" $\frac{E}{L} = 7.26$
Percentage from Table, Line A. 3.63
(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 = - .79

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	25.85	1		25.85	26	25.00	1		25.00
$\frac{1}{4}L$ from A.P. ...	11.50	4		46.00	13	10.27	4		41.08
$\frac{3}{4}L$ " ...	2.84	2		5.68	4	2.57	2		5.14
Amidships ...		4		-			4		
$\frac{3}{4}L$ from F.P. ...	5.69	2		11.38	6	4.54	2		9.08
$\frac{1}{4}L$ " ...	23.00	4		92.00	22	18.17	4		72.68
F.P. ...	51.70	1		51.70	45	48.00	1		48.00
Total ...				232.61					200.98

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{31.63}{18} (.75 - .0544) = +1.22$
If limited on account of midship superstructure.

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

Depth to Freeboard Deck = 9.86
Summer freeboard = 1.92
Moulded draught (d) = 7.94

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 1.98 = 2"
Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta =$
Tons per inch immersion at summer load water line
 $T =$

Deduction = $\frac{\Delta}{40T}$ inches
2"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{752 + .68}{1.36} = \frac{1.432}{1.36} = 1.053$

Depth Correction ...
Deduction for superstructures ...
Sheer correction ...
Round of Beam correction ...
Correction for Thickness of Deck amidships ...
Other corrections, scantlings, etc. Construction

Summer Freeboard = 23.00

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

Tropical Fresh Water Line above Centre of Disc ...
Fresh Water Line " ...
Tropical Line " ...
Winter Line below " ...
Winter North Atlantic Line " ...

Tropical Fresh Water Freeboard ...
Fresh Water " ...
Tropical " ...
Winter " ...
Winter North Atlantic " ...

12 AUG 1932

MARKING FORM
22 MAR 1933

MARKING FORM
18 JUL 1935

MARKING FORM
12 AUG 1932

RECEIVED
Foundation

Palmerston

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:—

None

Discharge forward and aft led below freeboard deck & fitted with storm valves.

Forecastle: Fitted with fixed hinged deadlights.

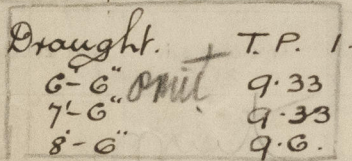
Forecastle:- 3ft high, with 2 rods, and stanchions 4'-0" apart.

Crew Forward:- Suitable S.W.R. lifelines are available
and fittings for securing same.

	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	30 -	30 -	2½ x 2½ x 26	At doorside	none -	2 @ 5' 3" x 3' 2" = 1 @ 5' 3" x 3' 2" = 2 @ 5' x 2' -	12" -	3' 9" -
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Free- board or Raised Quarter Decks ...	42" x 30	26 -	2½ x 2½ x 30	42" -	Riv'd to beam at top	2 @ 5' x 2' - 2 @ 4' 9" x 2' -	18" -	7' 0" -
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
Bridge, After Bulkhead
Bridge, Forward Bulkhead
Forecastle Bulkhead
Exposed Machinery Casings on Free-board, Raised Quarter Deck
Exposed Machinery Casings on Superstructure Decks
Machinery Casings within Superstructures not fitted with Class I Closing Appliances
Deckhouses on Flush Deck Ships

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



Focale Equino Blvd 15

$$\frac{+ 55 \times 525}{11275} = \frac{2.26}{17.26}$$

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

Small hatches:-

Flush manhole cover (steel) to Forepeak in Forecastle
" " " " Aft " " Steel House.

2 Coal hatches on Casing top trunked to B^{tr} 5'4" x 9" BA. with cleats battens & tarpaulins
1 @ 24" x 17" x 13" high to Ballast tank with bolted plate cover.

Builder's name and yard number.

J Fullerton & Co^s No. 199

Names of sister ships

Owners Henry Burden Junr & Co Ld.

Fee £ 5 : 2 : 0

Received by me.

Received
a/c 11/8/32