

PROVISIONAL ASSIGNMENT.

17 OCT 1936

Rpt. C.11.

Index No. 35080
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD. No. 31939

Computation of Freeboard for Steamer, ~~Sailing Ship, Tug~~
 having Complete Superstructure with tonnage opening
 (Type of Superstructures.)
 Port of Survey Sunderland
 Date of Survey
 Name of Surveyor Colin Bartlett
 Particulars of Classification +100A1 with freeboard (Class contemplated)

Ship's Name <u>Messrs W. Pickering & Sons Ltd</u> <u>No 237.</u>	Nationality and Port of Registry <u>British</u>	Official Number	Gross Tonnage	Date of Build
Moulded Dimensions: Length <u>425.0</u> Breadth <u>56.0</u> Depth <u>29.33</u>	Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>13,050</u> tons			
Coefficient of fineness for use with Tables <u>.770</u>				

Depth for Freeboard (D) Moulded depth <u>29.33</u> Stringer plate <u>.04</u> Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <u>29.37</u>	Depth correction (a) Where D is greater than Table depth (D-Table depth) R = $(29.37 - 28.33) 3 = +3.12$ (b) Where D is less than Table depth (if allowed) (Table depth-D) R = If restricted by superstructures <input checked="" type="checkbox"/>	Round of Beam correction Moulded Breadth (B) <u>56.0</u> Standard Round of Beam = $\frac{B \times 12}{50} = 13.44$ Ship's Round of Beam = <u>13.</u> Difference <u>Deficient .44</u> Restricted to Correction = $\frac{Diff}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.44}{4} \times .0063 = NIL$
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DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	<u>28.75</u>	<u>28.75</u>	<input checked="" type="checkbox"/>	<u>28.75</u>
" overhang	<u>1.10</u>	<u>.55</u>		<u>.55</u>
R.Q.D. enclosed	-			
" overhang	-			
Bridge enclosed	<u>389.50</u>	<u>389.50</u>	<input checked="" type="checkbox"/>	<u>389.50</u>
" overhang aft	<u>1.15</u>	<u>.86</u>		<u>.86</u>
" overhang forward	-			
F'cle enclosed	-			
" overhang	-			
Trunk aft	-			
" forward	-	<u>1/2 DIFF.</u>		
Tonnage opening aft	<u>4.50</u>	<u>2.67</u>	<input checked="" type="checkbox"/>	<u>2.67</u>
" " forward	-			
Total	<u>425.00</u>	<u>422.33</u>		<u>422.33</u>

Standard Height of Superstructure 7.50
 " " R.Q.D.
 Deduction for complete superstructure 42.00
 Percentage covered $\frac{S}{L} = 100.0\%$
 " " $\frac{S_1}{L} = 99.37\%$
 " " $\frac{E}{L} = 99.37\%$
 Percentage from Table, Line A. 99.22
 (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 = $42.00 \times .9922 = 41.67$

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.	<u>52.50</u>	1	<u>52.50</u>	<u>48.00</u>	<u>60.00</u>	1	<u>60.00</u>
$\frac{1}{8}L$ from A.P.	<u>23.36</u>	4	<u>93.44</u>	<u>21.40</u>	<u>26.70</u>	4	<u>106.80</u>
$\frac{2}{8}L$ "	<u>5.77</u>	2	<u>11.54</u>	<u>5.28</u>	<u>6.60</u>	2	<u>13.20</u>
Amidships	-	4	-	-	-	4	-
$\frac{3}{8}L$ from F.P.	<u>11.55</u>	2	<u>23.10</u>	<u>10.56</u>	<u>11.88</u>	2	<u>23.76</u>
$\frac{4}{8}L$ "	<u>46.72</u>	4	<u>186.88</u>	<u>42.72</u>	<u>48.06</u>	4	<u>192.24</u>
F.P.	<u>105.00</u>	1	<u>105.00</u>	<u>48.00</u>	<u>108.00</u>	1	<u>108.00</u>
Total			<u>472.46</u>	<u>96.00</u>			<u>504.00</u>

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{31.54}{18} (.75 - .50) = -.44$
 If limited on account of midship superstructure.
 If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Mean actual sheer aft = $\frac{E_{aft}}{L}$
 Mean standard sheer aft = $\frac{E_{std}}{L}$
 Mean actual sheer forward = $\frac{E_{aft}}{L}$
 Mean standard sheer forward = $\frac{E_{std}}{L}$
 Length of enclosed superstructure forward of amidships = } b.s.s.
 " " aft of " = }

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <u>29.37</u> Summer freeboard = <u>3.79</u> Moulded draught (d) = <u>25.58</u> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>6.39 = 6 1/2</u> Addition for Winter North Atlantic Freeboard (if required) = <input checked="" type="checkbox"/>	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 $\frac{d}{4} = 6 1/2$	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.77 + .68}{1.36} = \frac{1.45}{1.36}$ Depth Correction <u>3.12</u> Deduction for superstructures <u>41.67</u> Sheer correction <u>.44</u> Round of Beam correction Correction for Thickness of Deck amidships Other corrections, scantlings, etc. 3.12 42.11 - 38.99 Summer Freeboard = <u>45.61</u>
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:-

Tropical Fresh Water Line above Centre of Disc	<u>1' 1"</u>	Tropical Fresh Water Freeboard	<u>2' 8 1/2"</u>
Fresh Water Line " "	<u>6/2"</u>	Fresh Water " "	<u>3' 3"</u>
Tropical Line " "	<u>6/2"</u>	Tropical " "	<u>3' 3"</u>
Winter Line below " "	<u>6/2"</u>	Winter " "	<u>4' 4"</u>
Winter North Atlantic Line " "	<input checked="" type="checkbox"/>	Winter North Atlantic " "	<input checked="" type="checkbox"/>

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	...	...	...	...	...	...	...	...

Particulars of fiddle, 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. :-

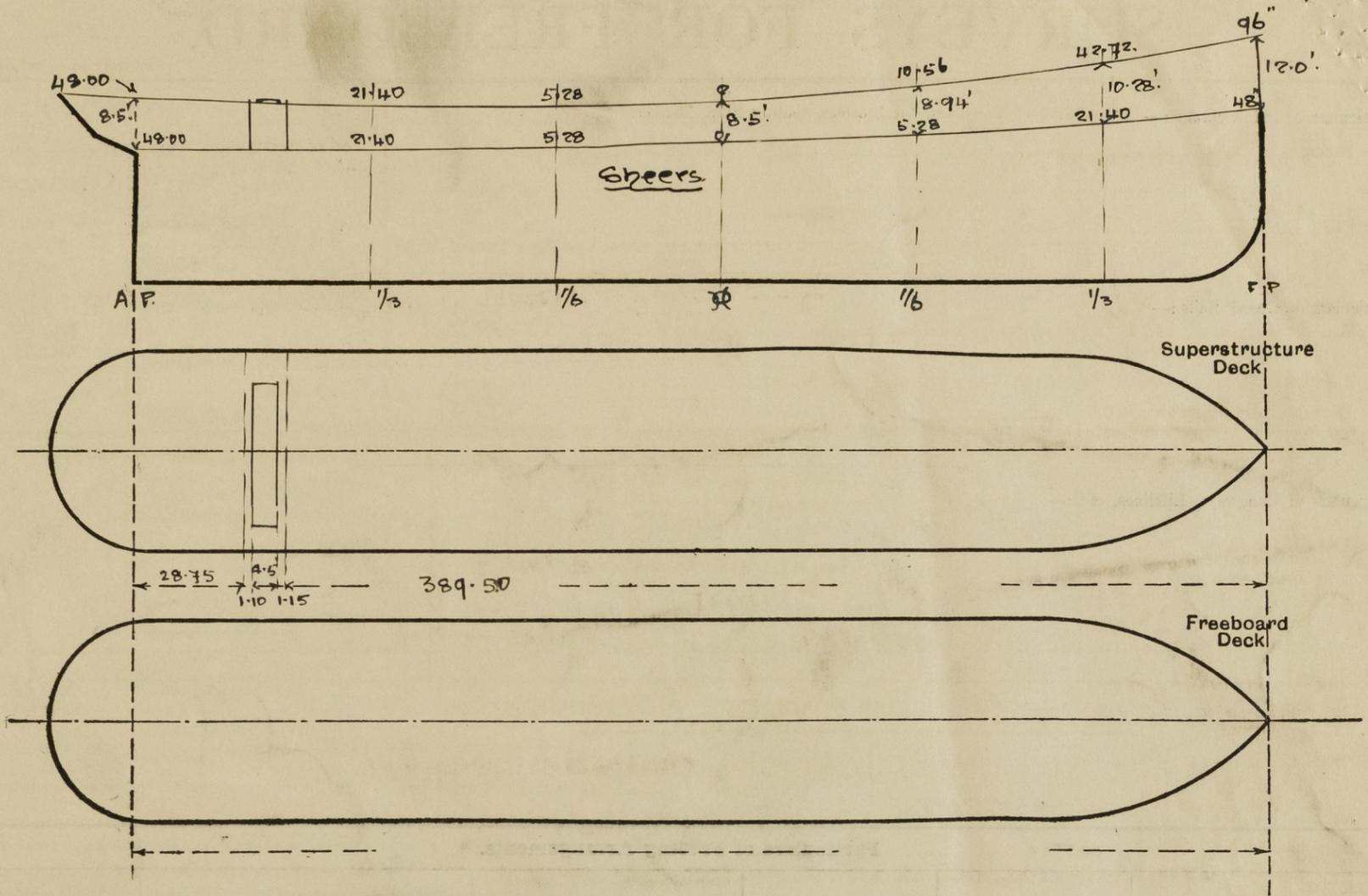
Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well
Forward Well

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 Freeboard or Raised Quarter Decks
Exposed Machinery Casings on Superstructure Decks
Machinery Casings within Superstructures 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 Freeboard or Raised Quarter Decks	...	...	...	...	...	...	...	...
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 freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:—



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

Plans for this vessel will be submitted shortly

Builder's name and yard number *Messrs W. Pickersjells No. 237.*

Names of sister ships *None*

Owners *W. J. Talam Brd*

Fee £ _____ Received by me _____

Will be charged on completion



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