

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. **32569**
(For London Office only.)

18274.

Computation of Freeboard for Steamer, ~~Sailing Ship~~, Tankerhaving *Poop, Bridge & Forecastle*Port of Survey *Leith*

(Type of Superstructures.)

Date of Survey *26th 27th Sept 1932*

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

*Is "Streonshalk"**British
Whitby**137090**3895**1928*Name of Surveyor *John Houston*Moulded Dimensions: Length *348.5 ft.* Breadth *49.83 ft.* Depth *25'-10"*Moulded displacement at moulded draught = 85 per cent. of moulded depth *8864* tonsCoefficient of fineness for use with Tables *.814*Particulars of Classification *+100 A1*

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth <i>25.83</i>	(a) Where D is greater than Table depth (D - Table depth) R = <i>(25.83 - 23.23) 2.60 = 4) 4.05</i>	Moulded Breadth (B) <i>49.83</i>
Stringer plate <i>.03</i>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$ <i>11.96</i>
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = <i>12.25</i>
Depth for Freeboard (D) = <i>25.86</i>		Difference <i>excess .29</i>
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.29}{4} \times .5125 = (-).04$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	<i>32.72</i>	<i>32.72</i>	<i>8.0'</i>		<i>32.72</i>
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	<i>105.0'</i>	<i>105.0'</i>	<i>8.0'</i>		<i>105.00</i>
" overhang aft					
" overhang forward					
Forecastle enclosed <i>equivalent</i>	<i>32.20</i>	<i>32.20</i>	<i>8.0'</i>		<i>32.20</i>
" overhang	<i>+ 4.5' wing houses</i>				
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total	<i>169.92</i>	<i>169.92</i>			<i>169.92</i>

Standard Height of Superstructure *6.98*" " R.Q.D. *ex*Deduction for complete superstructure *38.56*Percentage covered $\frac{S}{L} =$ *48.45*" " $\frac{S_1}{L} =$ *48.45*" " $\frac{E}{L} =$ *48.45*

Percentage from Table, Line A.

(corrected for absence of fore-castle (if required))

Percentage from Table, Line B.

(corrected for absence of fore-castle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = *.3493 x 38.56 = 13.47*

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	<i>44.85</i>	1		<i>44.85</i>	<i>59.0</i>	<i>59.00</i>	1		<i>59.00</i>
$\frac{1}{2}$ L from A.P.	<i>19.96</i>	4		<i>79.84</i>	<i>46.5</i>	<i>24.88</i>	4		<i>99.52</i>
$\frac{3}{8}$ L "	<i>4.93</i>	2		<i>9.86</i>	<i>11.5</i>	<i>6.22</i>	2		<i>12.44</i>
Amidships	-	4		-	-	-	4		-
$\frac{3}{8}$ L from F.P.	<i>9.87</i>	2		<i>19.74</i>	<i>21.25</i>	<i>11.75</i>	2		<i>23.50</i>
$\frac{1}{2}$ L "	<i>39.92</i>	4		<i>159.68</i>	<i>85.25</i>	<i>44.00</i>	4		<i>188.00</i>
F.P.	<i>89.70</i>	1		<i>89.70</i>	<i>108.0</i>	<i>108.00</i>	1		<i>108.00</i>
Total	<i>403.65</i>			<i>403.67</i>					<i>490.46</i>

Mean actual sheer aft = *excess*
Mean standard sheer aftMean actual sheer forward = *excess*
Mean standard sheer forwardLength of enclosed superstructure forward of amidships = *> .10*" " aft of " = *> .10*Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{86.79}{18} \left(\frac{.45 - .2437}{1} \right) = (-) 2.44$

If limited on account of midship superstructure.

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 = Ft.

Summer freeboard =

Moulded draught (d) =

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches =

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$ *Ships Register 7783*

Tons per inch immersion at summer load water line

T = *35.5*Deduction = $\frac{\Delta}{40 T}$ inches

=

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.814 + .68}{1.36} \frac{1.494}{1.36}$ Depth Correction *4.05*Deduction for superstructures *13.47*Sheer correction *2.44*Round of Beam correction *.04*Correction for Thickness of Deck amidships *.20*

Other corrections, scantlings, etc.

Summer Freeboard = *52.97*SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, *Steel*, Deck:— *4' - 5"*

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 " "

~~None fitted~~

yes. —
yes. —
yes. —

None.

On Poops, giving access to accomodation.

5'-3" high.
4'-0" broad } of steel riveted to deck, with wood door facing aft. 6" sill.
4'-0" deep.

[illegible]

All vent coverings except those on mast houses can be closed by wood plugs & canvas covers.

Those on the mast houses have fixed covers, but canvas covers are supplied.

1-5" dia^s goose-neck, 3" from deck led to F.P.T at fore-end of fire deck.
 1-2" " 30" high, led to No 1 tank. } In forewell.
 2-4" " 24" " " " " }
 2-4" " 18" " " " " } Bel. Room Tank. } On Bridge
 2-4" " 18" " " " " } E.R. Tank. } Deck

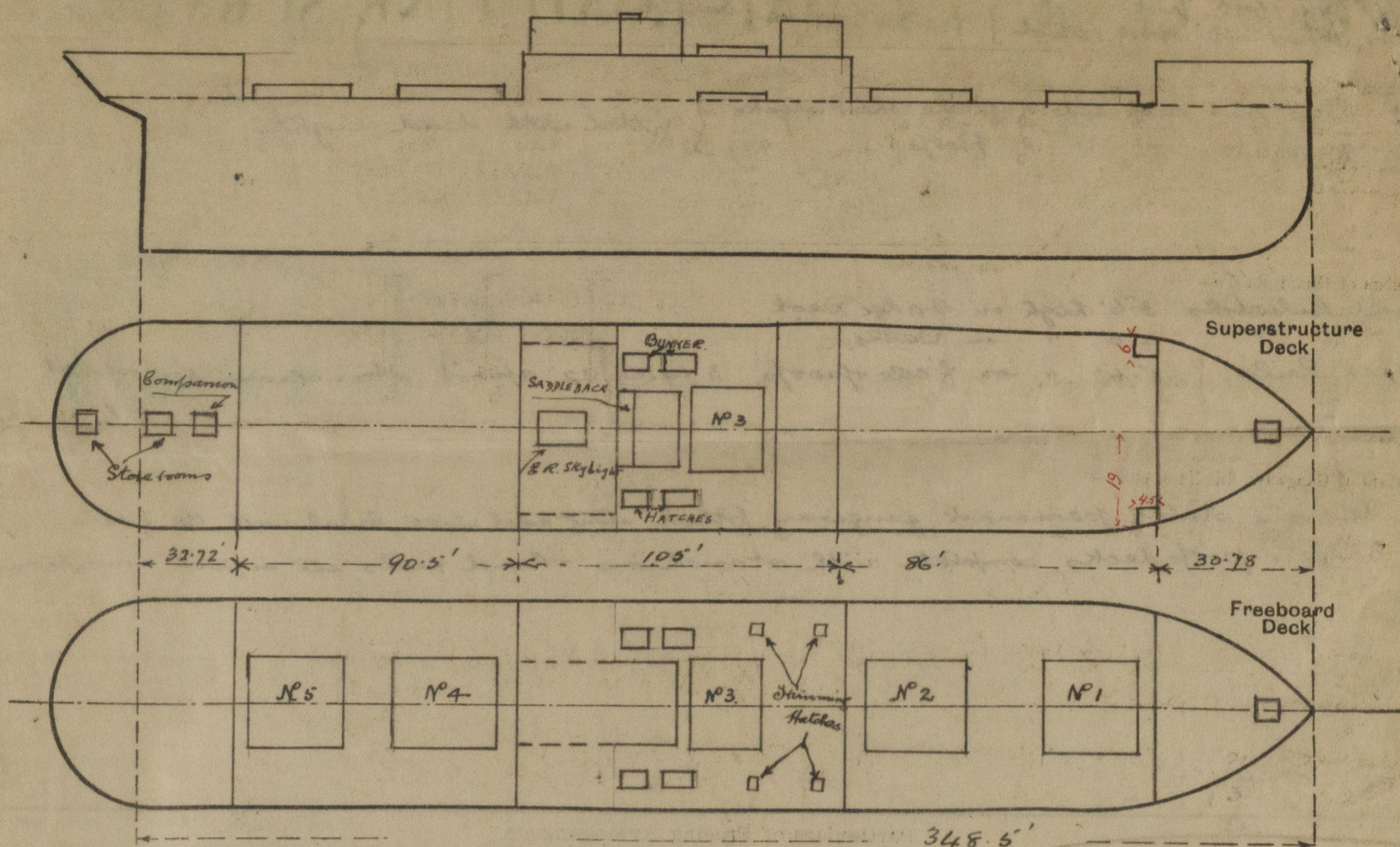
Effect

2-4" dia. 24" high led to No 5 tank. In after well.
2-4" goosenecks. 3" from deck, led to No 6 Tank } on poop.
1-3" gooseneck. 6" " " " to A.P.T. }

Efficient cleaning appliances provided

None.

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:—



F.C.L.E. 30.98
 WINGS 45 x 6 = 1.42
 19
 32.20

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

Additional Hatches

On Forecastle	Under Forecastle	On Poop	
3'9" x 2'3"	3'9" x 2'3"	6'0" x 4'0"	2'6" x 2'0"
Boam Height 2'3"	9' x 3' x 4'0" B.A. Boam?	Ht of Boaming 2'3"	2'3"
Thickness .40	Wood Hatch 3" thick	Thickness .40	.40
Wood Hatches 3" thick	Landing 3"	Hatches wood 3"	3"
Landing 3"	Bleats 3 on sides	" Landing 3"	3"
Spacing of Bleats 18"	2 - ends	Spacing of Bleats 18"	2 each side
No of Tarpaulins 3	Tarpaulins 2	Tarpaulins 3	3

This survey was held afloat, & was confined to an examination of the means of closing the openings in the deck & sides of the vessel.

O.S.D. 21.95
 Keel 17

22.12
 21.73 = 8739
 12 x 26.23 x 39 = 123
 8862
 44
 8818 mcs

Builder's name and yard number W. Pickering & Sons Ltd.

Names of sister ships

Owners Rowland & Marwood S.S. Co. Ltd. (Headlam & Son Trgs.)

Fee £ 11 - 18 - 0

Received by me



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