

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey <u>South Shields</u>	
having <u>POOP</u> <u>BRIDGE</u> <u>FORECASTLE</u>					Date of Survey <u>10th July 1935</u>	
(Type of Superstructures.)					Name of Surveyor <u>John A. Dawson</u>	
Ship's Name <u>ILVINGTON COURT</u>		Nationality and Port of Registry <u>LONDON</u> <u>BRITISH</u>	Official Number <u>147615</u>	Gross Tonnage <u>5187</u>	Date of Build <u>1919-8</u>	
Moulded Dimensions: Length <u>400</u> Breadth <u>52.0</u> Depth <u>31.0</u>					Particulars of Classification <u>+100-A.1.</u>	
Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>12060</u> tons						
Coefficient of fineness for use with Tables <u>.770</u>						
Depth for Freeboard (D)			Depth correction		Round of Beam correction	
Moulded depth <u>31.00</u>			(a) Where D is greater than Table depth (D-Table depth) R = $(31.04 - 26.67) 3.00$ = <u>+ 13.11"</u>		Moulded Breadth (B) <u>52.00'</u>	
Stringer plate <u>.04</u>			(b) Where D is less than Table depth (if allowed) (Table depth-D) R = <u>✓</u>		Standard Round of Beam = $\frac{B \times 12}{50} = \frac{52 \times 12}{50} = \underline{12.48"}$	
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ <u>✓</u>			If restricted by superstructures <u>✓</u>		Ship's Round of Beam = <u>13</u>	
Depth for Freeboard (D) = <u>31.04</u>					Difference <u>Excess</u> <u>.52"</u>	
					Restricted to	
					Correction = $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L}) = \frac{.52}{4} \times 4958 = \underline{-.67}$	

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	<u>49.25</u>	<u>49.25</u>	<u>7.11 1/2</u>	<u>✓</u>	<u>49.25</u>
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	<u>112.70</u>	<u>112.70</u>	<u>7.11 1/2</u>	<u>✓</u>	<u>112.70</u>
" overhang aft					
" overhang forward					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total	<u>201.95</u>	<u>201.95</u>			<u>201.95</u>

Standard Height of Superstructure 7'-6"
" " R.Q.D. ✓
Deduction for complete superstructure 42.00"
Percentage covered $\frac{S}{L} = \frac{50.42}{52} = 50.42\%$
" " $\frac{S_1}{L} = 50.42\%$
" " $\frac{E}{L} = 50.42\%$
Percentage from Table, Line A.
(corrected for absence of forecastle (if required))
Percentage from Table, Line B. 36.42%
(corrected for absence of forecastle (if required))
Interpolation for bridge less than 2L (if required)
Deduction = 42.00 \times 36.42 = - 15.30"

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	<u>50.00</u>	<u>1</u>		<u>50.00</u>	<u>60</u>	<u>60.00</u>	<u>1</u>		<u>60.00</u>
1/2 L from A.P.	<u>22.25</u>	<u>4</u>		<u>89.00</u>	<u>26 1/2</u>	<u>26.50</u>	<u>4</u>		<u>106.00</u>
2/3 L "	<u>5.50</u>	<u>2</u>		<u>11.00</u>	<u>6 5/8</u>	<u>6.62</u>	<u>2</u>		<u>13.24</u>
Amidships	<u>✓</u>	<u>4</u>		<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>4</u>		<u>✓</u>
2/3 L from F.P.	<u>11.00</u>	<u>2</u>		<u>22.00</u>	<u>13 1/2</u>	<u>13.50</u>	<u>2</u>		<u>27.00</u>
1/2 L "	<u>44.50</u>	<u>4</u>		<u>178.00</u>	<u>54</u>	<u>54.00</u>	<u>4</u>		<u>216.00</u>
F.P.	<u>100.00</u>	<u>1</u>		<u>100.00</u>	<u>120</u>	<u>120.00</u>	<u>1</u>		<u>120.00</u>
Total				<u>450.00</u>					<u>542.24</u>

Mean actual sheer aft = Excess
Mean standard sheer aft = Excess

Mean actual sheer forward = Excess
Mean standard sheer forward = Excess

Length of enclosed superstructure forward of amidships = > .1L
" " aft of " = > .1L

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{92.24}{18} \left(.75 - \frac{.2521}{.4979} \right) = \underline{- 2.55"}.$$

If limited on account of midship superstructure. ✓

If limited to maximum allowance of 1 1/2 ins. per 100 ft. ✓

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Ft.
Depth to Freeboard Deck = 31.04
Summer freeboard = 5.96
Moulded draught (d) = 25.08

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = $\frac{25.08}{4} = 6.27 = \underline{6 \frac{1}{4}"}$

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

See page IV

TABULAR FREEBOARD corrected for Fresh Deck (if required)

Correction for coefficient

$$\frac{.74 + .68}{1.36} = \frac{1.42}{1.36}$$

Depth Correction 13.11
Deduction for superstructures - 15.30
Sheer correction - 2.55
Round of Beam correction - .06
Correction for Thickness of Deck amidships -
Other corrections, scantlings, etc. -

+ -

13.11 - 15.30 - 2.55 - .06 -

13.11 17.91 - 4.80

Summer Freeboard = 71.44

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

Existing freeboards as measured being more favorable than those computed under the Convention regulations

Tropical Fresh Water Line above Centre of Disc	<u>12 1/2"</u>
Fresh Water Line " "	<u>7"</u>
Tropical Line " "	<u>5 1/2"</u>
Winter Line below " "	<u>5 1/2"</u>
Winter North Atlantic Line " "	<u>✓</u>

Tropical Fresh Water Freeboard	<u>5'-11 3/4"</u>
Fresh Water " "	<u>4'-11 1/4"</u>
Tropical " "	<u>5'-4 3/4"</u>
Winter " "	<u>5'-6 1/4"</u>
Winter North Atlantic " "	<u>✓</u>

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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS																
FREEBOARD DECK																
BRIDGE DECK POOP																
Description of Hatchway	Nº 1	Nº 2	Nº 3	Nº 4	Nº 5	FOR	CH.	COAL	TRIM.	Nº 3	COAL	COAL	TRIM.	Nº 3	COAL	TRIM.
Dimensions of Hatchway	32' 6" x 26' 0"	34' 8" x 26' 0"	10' 10" x 18' 0"	34' 8" x 26' 0"	30' 4" x 26' 0"	3' 0" x 3' 0"	2' 0" x 2' 0"	8' 8" x 4' 0"	2' 0" x 2' 0"	10' 10" x 18' 0"	8' 8" x 4' 0"	4' 0" x 18' 0"	2' 5" x 18' 0"	3' 0" x 18' 0"	3' 0" x 18' 0"	3' 0" x 18' 0"
COAMINGS	Height above Deck	30	30	9	30	30	9	18	9	18	18	5' 0"	18	18	18	18
	Thickness	44	44	8A	44	44	8A	40	8A	50	40	ABOVE	38	38	38	38
	Stiffeners	10 x 3 1/2	8A	✓	10 x 3 1/2	8A	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Brackets, Stays	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2
HATCH BEAMS	Number	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5
	Spacing	24-18	38	✓	24-18	38	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Scantling and Sketch	6 x 3 1/2	46	✓	6 x 3 1/2	46	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Bearing Surface	3 1/2	3 1/2	✓	3 1/2	3 1/2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
FORE AND AFTERS	Number	✓	✓	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Spacing	✓	✓	54"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Unsupported Lengths	✓	✓	10' 2 1/2"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Scantling* and Sketch	✓	✓	10' 40"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HATCH COVERS	Material	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.
	Thickness	3"	3"	2 1/2"	3"	3"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
	How fitted	F.A.	F.A.	ATH.	F.A.	F.A.	ATH.	ATH.	ATH.	ATH.	ATH.	ATH.	ATH.	ATH.	ATH.	ATH.
	Bearing Surface	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"	3"
Spacing of Cleats	24"	24"	24"	24"	24"	24"	15"	18"	18"	24"	24"	36"	18"	20"	20"	20"
Number of Tarpaulins	2	2	1	2	2	1	1	1	1	2	2	2	2	2	2	2
*Are wood fore and afters steel shod at all bearing surfaces? <input checked="" type="checkbox"/> Are battens and wedges efficient and in good condition? <input checked="" type="checkbox"/> Are tarpaulins in good condition and in accordance with rule requirements? <input checked="" type="checkbox"/> Are lashings provided in accordance with rule requirements? <input checked="" type="checkbox"/>																

Particulars of fiddle, funnel and ventilator coamings:—
 Fiddle, vents in efficient condition.
 Fiddle vent gratings have hinger covers with clips. (clips missing)
 Funnel in efficient condition.

Particulars of Flush Bunker Scuttles:— none.

Particulars of Companionways:—
 1 on Bridge 5th Port Side of Steel with Teak door 1 3/4" solid.
 Companion 3' 9" x 3' 0" x 3' 0" high, 9" door sill, sliding wood top, operated both sides.
 Poop Deck: 2 to Crew Space: 4' 0" x 3' 0" x 6' 0" high of steel, strongly constructed.
 Door of teak, 4' 8" x 28" x 1 1/2" solid, 9" sill. Operated both sides.

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—
 Fore Deck, 1 vent. coaming 36" high x 32" dia. x 1/4" T.D.K.
 2 " 34 " x 17 1/2 " x 3/8" TO HOLD.
 BRIDGE D⁴: 4 VENT COAMING, 30" high x 1 1/2" dia. x 1/4" T.D.K.
 2 " 9' 4" " x 17 1/2 " x 3/8" TO HOLD.
 SUPPORTED TO HOODS.
 Poop D⁴: 2 VENT COAMINGS, 31" high x 17 1/2 " x 3/8" TO HOLD.
 6 " 29 " x 11 " x 1/4" TO CREW.
 2 " 21 " x 6 " x 1/4" TO CREW.
 1 " 21 " x 9 " x 1/4" " "
 5 G.N. " 29.31 x 5 1/2" DIA.
 3 G.N. " 27.30 x 3 1/2 " x 6 " " "

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—
 Fore D⁴: 1 G.N. 23, 27 x 2 1/2" DIA. PEAK.
 2 " x 2 1/2" DIA. TO D.B.
 BRIDGE D⁴: 6 G.N. AIR PIPES, 6, 9 x 2 1/2" TO D.B.
 Poop D⁴: 2 G.N. 6, 11 x 2 1/2" TO D.B.
 2 G.N. 9, 12 x 2 1/2" TO A.P.
 air pipes have wood plugs.

Particulars of Gangway Cargo and Coaling Ports:—
 2 hinged ~~wood~~ ports in Bridge space, abreast Boiler casing.
 Secured by 4 clips screwed up on nuts, with rubber joints.
 18" x 12" opening 9" above Deck to lower edge.

Particulars of Scuppers and Sanitary Discharge Pipes:— 2 Scuppers in Bridge space have plate covers cemented over. (Port starboard)
Sanitary discharges above freeboard deck have storm valves fitted.

Particulars of Side Scuttles:— Side Scuttles have hinged deadlights. (~~to be made workable and reinforced as necessary~~)

Particulars of Guard Rails:— Forecastle Deck. Rails 2 bars. 3'-6" high. stanchions spaced 4'-0" apart.
Bridge Deck. " 2 " 3'-9" " " 4'-0" "
Poop Deck. " 3 " 3'-6" " " 4'-6" "

Particulars of Gangways, Lifelines, etc.:— Provision made for lifelines to be rigged.

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	99'-4"	3'-9"	4'-8" x 1'-6" rectangular	3	20.97	19.86 $\frac{1}{2}$
Forward Well	100'-0"	3'-9"	4'-8" x 1'-6" rectangular	3	20.97	20.00 $\frac{1}{2}$
State position of each freeing port ... After Well:— 1 st 20'-7" ; 2 nd 50'-0" ; 3 rd 72'-0" aft of Bridge Bldg. 15' above Deck. (F. and A. position and height above deck edge) Forward Well:— 1 st 11'-0" ; 2 nd 50'-6" ; 3 rd 84'-6" from " " 15' " " State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— 2 horizontal Bars.						
Additional area where sheer is less than standard.						

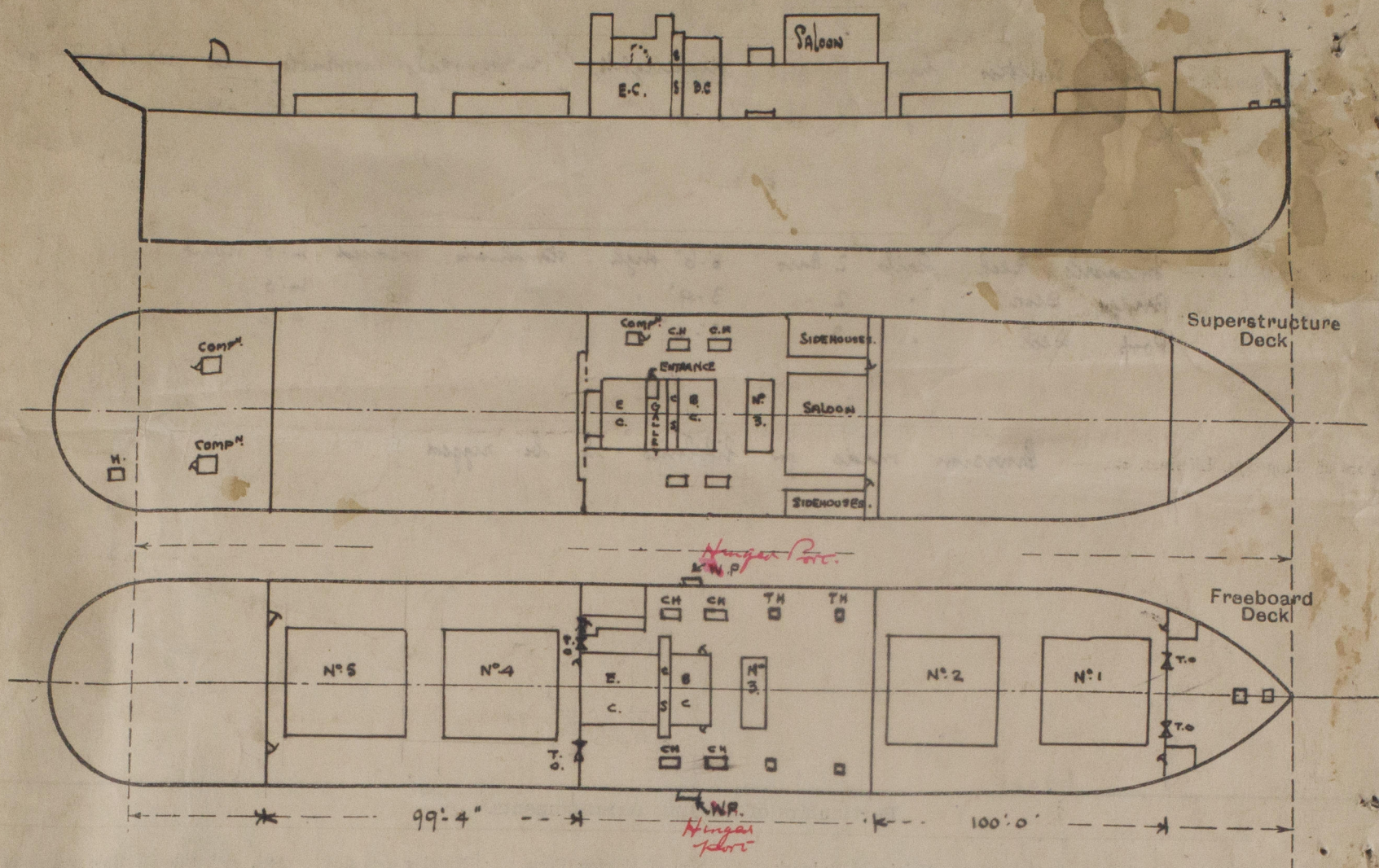
Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	36 ✓	30 ✓	6 x 3½ x ½ L	24 ✓	✓	5'-9" x 1'-10"	24 ✓	
Raised Quarter Deck Bulkhead	✓							
Bridge, After Bulkhead	30 ✓	26 ✓	3½ x 3½ x 36 L	33 ✓	—	5'-6" x 4'-0" SS. 5'-6" x 3'-6" PS.	18 ✓	
Bridge, Forward Bulkhead	40 ✓	36 ✓	9 x 3½ x ½ BA	30 ✓	BKTS Top - Bott.	—	—	
Forecastle Bulkhead	30 ✓	26 ✓	3½ x 3 x 30 4 BULKHEADS.	27 ✓	—	5'-6" x 4'-0" T.O. 5'-6" x 2'-0"	18 ✓	
Trunk, Aft	✓							
Trunk, Forward	✓							
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	30 ✓	26 ✓	3½ x 3½ x 36 L	—	—	5'-4" x 2'-0"	18 ✓	
Exposed Machinery Casings on Superstructure Decks	36 ✓	30 ✓	3 x 3 x 3/8 L	31 ✓	—	5'-6" x 2'-0"	18 ✓	4'-0"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	36 ✓	30 ✓	3 x 3 x 3/8 L	31 ✓		5'-5" x 2'-1"	18 ✓	
Deckhouses on Flush Deck Ships	✓							

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

Poop Bulkhead	2 HINGED TEAK DOORS, 1½ SOLID, OPERATED BOTH SIDES. ✓
Raised Quarter Deck Bulkhead	✓
Bridge, After Bulkhead	3" weather boards in Rivetted channels, full height. ✓
Bridge, Forward Bulkhead	no openings. ✓
Forecastle Bulkhead	3" weather boards in Rivetted channels, full height. ✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	Steel hinged doors, operated both sides. ✓
Exposed Machinery Casings on Superstructure Decks	Steel hinged doors, operated both sides. (Casing in way of door 7'3" high) ✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	Steel hinged doors, operated both sides. Coal shoot sides have plate covers, hinges, with clips securing same. ✓
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 shewn on the following sketches:—



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

Vessel examined afloat.
Special Survey is being completed.
No timber assignment required. ✓

Particulars from Deadweight Scale.

Built.	D.W.	T/1.
25' 3"	8200	41.3
25' 0"	8090	41.2
24' 0"	7550	41.0
23' 0"	7100	40.8
22' 0"	6625	40.5

Builder's name and yard number Hong Kong Whampoa Dock Co. Ltd.

Names of sister ships

Owners United British S.S. Co. Ltd.

Fee £ 16 : 0 : 0

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