

18 JUL 1932

Rpt. 6.11.

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Shipping, Steamer
having POOP, Bridge & Forecastle
(Type of Superstructures.)
Port of Survey Newcastle-on-Tyne
Date of Survey 14th July 1932
Name of Surveyor Alex E Stevenson
Particulars of Classification +100A1

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	
KENSINGTON COURT	British London	149822	4863	1927 <i>5mo</i>	
Moulded Dimensions: Length	<u>395.5</u>	Breadth	<u>53.0'</u>	Depth	<u>29.0'</u>
					<u>11430</u>
					tons
Moulded displacement at moulded draught = 85 per cent. of moulded depth					
Coefficient of fineness for use with Tables <u>.774</u>					

Depth for Freeboard (D) Moulded depth ... <u>29.0'</u> Stringer plate ... <u>.03</u> Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <u>29.03</u>	Depth correction (a) Where D is greater than Table depth (D - Table depth) R = <u>(29.03 - 26.37) × 3.00 = +7.98</u> (b) Where D is less than Table depth (if allowed) (Table depth - D) R = If restricted by superstructures	Round of Beam correction Moulded Breadth (B) <u>53.0'</u> Standard Round of Beam = $\frac{B \times 12}{50} = \frac{12 \times 53}{50} = 12.72$ Ship's Round of Beam = <u>13.2</u> Difference <u>4.48</u> Restricted to Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{4.48}{4} \times \left(1 - \frac{51.40}{395.5} \right) = 1.1186 = (-) .09$
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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>46.0'</u>	<u>46.00</u>	<u>8.0'</u>		<u>46.00</u>
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	<u>119.17'</u>	<u>118.22</u>	<u>8.0'</u>		<u>118.22</u>
" overhang aft ...		<u>.47</u>			<u>.47</u>
" overhang forward ...					
Fore enclosed ...	<u>38.58'</u>	<u>38.58</u>	<u>8.2'</u>	<u>to wood etc</u>	<u>38.58</u>
" overhang ...	<u>40.88'</u>				
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	<u>203.75</u>	<u>203.27</u>			<u>203.27</u>

Standard Height of Superstructure 7.455
" " R.Q.D. ✓
Deduction for complete superstructure 41.70
Percentage covered $\frac{S}{L} = \frac{51.52}{395.5} = 51.40$
" " $\frac{S_1}{L} = \frac{51.40}{395.5}$
" " $\frac{E}{L} = \frac{51.40}{395.5}$
Percentage from Table, Line A.
(corrected for absence of forecastle (if required)) 37.40
Percentage from Table, Line B.
(corrected for absence of forecastle (if required))
Interpolation for bridge less than 2L (if required)
Deduction = 41.70 × 37.40 = (-) 15.60

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	<u>49.55</u>	1		<u>49.55</u>	<u>60"</u>	<u>60.00</u>	1		<u>60.00</u>
1/2 L from A.P. ...	<u>22.05</u>	4		<u>88.20</u>	<u>26"</u>	<u>26.06</u>	4		<u>104.24</u>
2/3 L " ...	<u>5.45</u>	2		<u>10.90</u>	<u>6 1/2"</u>	<u>6.51</u>	2		<u>13.02</u>
Amidships ...		4					4		
2/3 L from F.P. ...	<u>10.90</u>	2		<u>21.80</u>	<u>12 1/2"</u>	<u>12.38</u>	2		<u>24.76</u>
1/2 L " ...	<u>44.70</u>	4		<u>178.80</u>	<u>49 1/2"</u>	<u>49.52</u>	4		<u>198.08</u>
F.P. ...	<u>99.10</u>	1		<u>99.10</u>	<u>114"</u>	<u>114.00</u>	1		<u>114.00</u>
Total ...				<u>445.95</u>					<u>514.10</u>

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{68.15}{18} \left(\frac{75-2570}{493} \right) = -1.87$
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.

Depth to Freeboard Deck = 29.03
Summer freeboard = 5.44
Moulded draught (d) = 23.57

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{a}{4}$ inches = 5.90 = 6"
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
=

TABULAR FREEBOARD corrected for Flush Deck (if required)
Correction for coefficient

	+	-
Depth Correction ...	<u>7.98</u>	<u>-</u>
Deduction for superstructures ...	<u>-</u>	<u>15.60</u>
Sheer correction ...	<u>-</u>	<u>1.87</u>
Round of Beam correction ...	<u>-</u>	<u>.09</u>
Correction for Thickness of Deck amidships ...	<u>-</u>	<u>-</u>
Other corrections, scantlings, etc. ...	<u>-</u>	<u>-</u>
	<u>7.98</u>	<u>17.56</u>
Summer Freeboard =	<u>65.34</u>	

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 " " ...	<u>6</u>
Winter North Atlantic Line " " ...	...

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

5' 11 1/4"

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS											
Description of Hatchway	N° 1 upper dk.	N° 2 up. dk.	N° 3 Bridge dk.	N° 4 Up. dk.	N° 5 Up. dk.	N° 6 Poop Hatch.	N° 3 on Up. dk.	N° 6 upper dk. in Poop	Cross bunker hatch on Bridge dk.	Cross bunker hatch on upper side Bridge	
Dimensions of Hatchway	29-3 x 20-0	29-3 1/2 x 20-0	11-5 1/2 x 17-2	29-9 1/2 x 20-0	29-9 1/2 x 20-0	11-5 1/2 x 12-0	11-5 1/2 x 20-0	11-5 1/2 x 12-0	5-9 x 17-2	6-10 1/2 x 20-0	
COAMINGS	Height above Deck	36"	36"	30"	36"	36"	27"	15"	16"	30"	15"
	Thickness	44"	44"	44"	44"	44"	44"	44"	44"	44"	44"
	Sides	44"	44"	44"	44"	44"	44"	44"	44"	44"	44"
	Stiffeners	7 x 3 BA	7 x 3 BA	7 x 3 BA	7 x 3 BA	7 x 3 BA	7 x 3 BA	7 x 3 BA	7 x 3 BA	7 x 3 BA	7 x 3 BA
HATCH BEAMS	Brackets, Stays	2	2	2	2	2	2	2	2	2	2
	Number	5	5	5	5	5	5	5	5	5	5
	Spacing	4'-10 1/2"	4'-11 1/2"	3'-10"	4'-11 1/2"	4'-11 1/2"	3'-10"	3'-10"	2'-10 1/2"	3'-5"	
	Scantling and Sketch	18" x 36"	18" x 36"	11" x 36"	18" x 36"	18" x 36"	10" x 36"	16" x 36"	10" x 36"	11" x 36"	16" x 36"
FORE AND AFTERS	Material	wp.	wp.	wp.	wp.	wp.	wp.	wp.	wp.	wp.	wp.
	Thickness	2 3/8"	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	fta.	fta.	fta.	fta.	fta.	fta.	fta.	fta.	fta.	fta.
	Bearing Surface	4 x 3	4 x 3	3	4 x 3	4 x 3	3	4 x 3	3	3	4 x 3
HATCH COVERS	Number	none	none	none	none	none	none	none	none	none	none
	Spacing	none	none	none	none	none	none	none	none	none	none
	Unsupported Lengths	Bunker Hatch on casing top. 5'-6" x 15'-3"			Bunker Hatch on Up. dk. in Bridge. 2 off 9'-3" x 3'-6"				Store Hatch on Up. dk. in Fide.		
	Scantling* and Sketch	coam. 15" x 40", Hatch 2 1/2" up fta. B.S. 2"			coam. 9" x 3 1/2" BA, Hatch 2 1/2" up. B.S. 2 1/2"				4'-0" x 3'-0", coam. 18" x 40"		
HATCH COVERS	Material	wp.	wp.	wp.	wp.	wp.	wp.	wp.	wp.	wp.	wp.
	Thickness	2 3/8"	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	fta.	fta.	fta.	fta.	fta.	fta.	fta.	fta.	fta.	fta.
	Bearing Surface	4 x 3	4 x 3	3	4 x 3	4 x 3	3	4 x 3	3	3	4 x 3
Spacing of Cleats	23"	24"	22"	24"	24"	22"	23"	21"	20/24"	none on sides	31" ends.
Number of Tarpaulins	3	3	3	3	3	3	2	2	3	2	2
<p>*Are wood fore and afters steel shod at all bearing surfaces? <input checked="" type="checkbox"/></p> <p>Are battens and wedges efficient and in good condition? <input checked="" type="checkbox"/></p> <p>Are tarpaulins in good condition and in accordance with rule requirements? <input checked="" type="checkbox"/></p> <p>Are lashings provided in accordance with rule requirements? <input checked="" type="checkbox"/></p>											
<p>Store Hatch on Poop dk. 3'-9" x 4'-0", coam. 18" x 40"</p> <p>Hatch 2 1/2" up B.S. 2", cleats 19", 3 Tarpaulins.</p> <p>Aft peak hatch on Up. dk. in Poop. 4'-0" x 4'-0", coam. 12" x 50"</p> <p>Steel riveted top .45", with WT manhole 17" x 13"</p>											

Particulars of fiddle, funnel and ventilator coamings:—

Strokehold gratings covered by strong steel hinged covers. /
 Funnel & fiddle ventilators in efficient condition. /
 Engine skylight of steel, strongly constructed. /

Store Hatch on Bridge deck, 3'-0" x 3'-6"

coam. 7" x 3" BA, wood grating covers

Protected by steel house, with 1 3/4 solid teak

hinged doors 18" x 18"

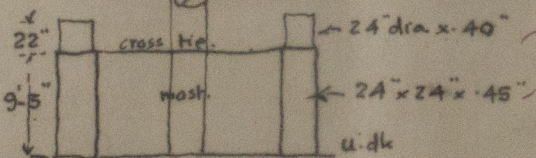
Particulars of Flush Bunker Scuttles:—

none

Particulars of Companionways:—

none

* sketch on vents in fta wells in way of mask



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

on Fide dk. 1 off 10" dia, coam. 15" x 30" led to peak.

up. dk. f. well. 4 - 24" - " 8'-0" x 40" - held & stayed to Bridge or Fide Bldg 6'-0" above dk.

" " 2 - 24" - " 36" x 40" - "

" " 2 - 24" - as sketch - " - "

Bridge deck 2 - 24" - coam. 8'-0" x 40" - & stayed to Saloon House. 6'-9" above dk.

" " 2 - 10" - 25" x 30" - Bunkers.

" " 2 - 24" - derrick posts led to hold.

up. dk. a. well 2 - 24" - coam. 8'-0" x 40" - & stayed to Bridge and Bldg. 6'-0" above dk.

" " 2 - 24" - 36" x 40" - "

" " 2 - 24" - as sketch - " - "

Poop dk. 1 off 15" dia. coam. 24" x 38" led to Tunnel.

" " 2 - 20" - derrick posts.

Ventilators constructed in accordance with rules.

Coamings closed with wood plugs & canvas covers.

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

upper deck. 1. c.t. gooseneck 3 1/2" dia x 20" to opening from fore peak. (in Fide alleyway).

" " f. well. 4 - 3 1/2" - x 30" - from double bottom

Bridge dk. 8 - 3 1/2" - x 16" - "

up. dk. aft well 4 - 3 1/2" - x 30" - "

Poop dk. 1 - 3 1/2" - x 17" - "

" " 2 - 3 1/2" - x 16" - from aft peak.

the closing appliances, consisting of wood plugs attached by lines provided

Particulars of Gangway Cargo and Coaling Ports:—

none



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Particulars of Scuppers and Sanitary Discharge Pipes :—

From Pile. 2 wc's P+S. discharging thru pole side with m.c. storm valve at ship's side
Bridg space 2 scupper. P+S. discharging thru side below upper dh with m.c. storm valve at side
" S. side 2wc + 1 wash, discharging " " "
" P " 1 scupper from steering gear flat in E.R.

Particulars of Side Scuttles :-

Particulars of Side Scuttles: ^{shearing gear} 6. side 1 scupper from ice box in store in Bridge, discharging there side below upper deck with 2 in. 1. storm valve at side. ✓
in Bridge & F'de, with hinged deadlights. ✓

Particulars of Guard Rails :—

Steel bulwarks, on freeboard deck in wells, 4'-0" high, efficiently constructed & supported.
Guard rails on Poop, Bridge & Fore, 3'-3" high with stanchions 4'-6" apart.

Particulars of Gangways, Lifelines, etc. :—

more (crow in fide). ✓

Portable provision made for rigging 1 $\frac{1}{2}$ " steel wire portable lifelines at each side of the forward and after wells, secured to the fore-castle, bridge and poop bulkheads by eye bolts, led through stanchions attached to ventilator coamings & stayed to ring bolts attached to hatch coaming bulk angles.

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	98'-6½' /	4'-0" /	4'-6" x 9"	7	23.62 sq. /	19.7 /
Forward Well	90'-11½" /	4'-0" /	4'-6" x 9"	7	23.62 sq. /	18.2 /

State position of each freeing port ... } After Well:— 11'-6", 23'-6", 35'-6", 47'-3", 59'-0", 70'-9" + 83'-0" from Bridge & bil.
(F. and A. position and height above deck edge) } Forward Well:— 10'-0", 21'-9", 33'-6", 45'-6", 57'-3", 68'-6" + 80'-9" " " } 11" above deck ✓
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.

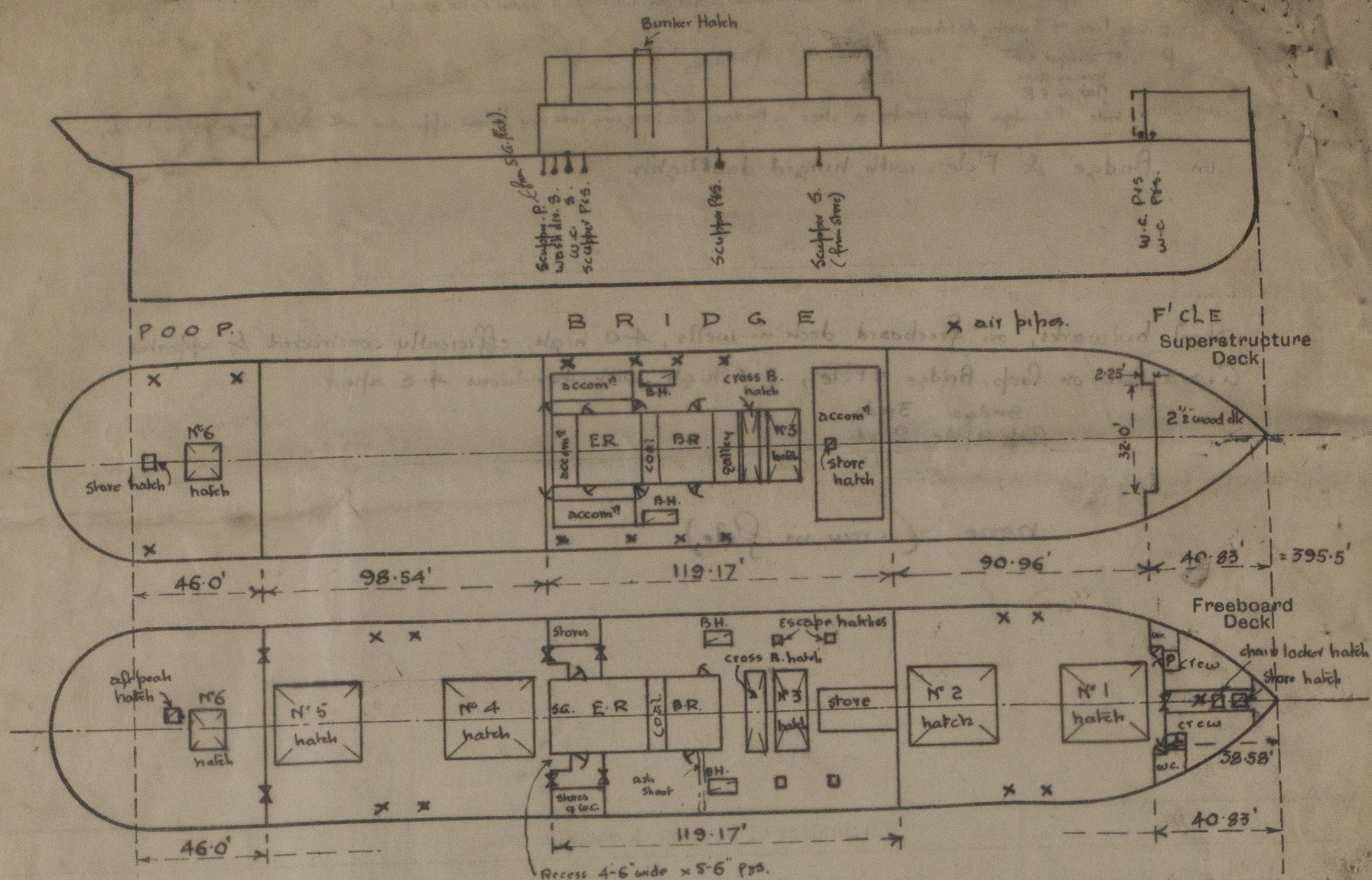
Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ... ..	.40"	.40"	6"x3"x40'L	29"	rugged top & botm.	5'-0" x 3'-1" (2)	18"	8'-0"
Raised Quarter Deck Bulkhead ...					-	4'-9" x 3'-6" (2)	18"	8'-0"
Bridge, After Bulkhead ... ..	.34"	.30"	3"x2½"x30'L	29"	-	-	-	8'-0"
Bridge, Forward Bulkhead ... ..	.44"	.40"	9"x3½"B.A.	30"	rugged top & botm.	-	-	8'-0"
Forecastle Bulkhead	-	.26	3"x2½"x24"	36"	{ S.H. flange & panel centre	5'-0" x 1'-8" (2) 5'-0" x 2'-0" (2) 6'-3" x 4'-0" (1)	18" 18" 18"	8'-0"
Trunk, Aft								
Trunk, Forward						{ B.R. for end ally. after end ally.	5'-0" x 2'-0" (2) 5'-0" x 2'-0" (2) 5'-0" x 2'-0" (2)	18" 18" 18"
Exposed Machinery Casings on Free- board or Raised Quarter Decks ...					For decks at top ER alt. BREUING	ER 5'-0" x 2'-0" (2)	18"	8'-0"
Exposed Machinery Casings on Super- structure Decks ... ..	.38"	.32"	3"x2½"x30"	27"	nicks to become at top.	{ B.R. } ER 5'-0" x 2'-0" (2) 4'-10" x 2'-6" (2)	18" 18"	8'-0"
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances ... ..	.34"	.30	3"x2½"x30"	27"				
Deckhouses on Flush Deck Ships ...								

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

Poop Bulkhead	3" weather boards in full height raked channels.
Raised Quarter Deck Bulkhead ...	
Bridge, After Bulkhead	3" weather boards in full height raked channels.
Bridge, Forward Bulkhead	✓
Forecastle Bulkhead	<div style="display: flex; align-items: center;"> <div style="flex: 1;"> <p>S.H. Solid hinged beam doors ($1\frac{3}{4}$" thick).</p> <p>To Lamps & Paint. Hinged steel doors</p> <p>Centre open</p> <p>B.R. Hinged two piece steel doors</p> <p>Fore end alleyway. Hinged two piece steel doors.</p> <p>2nd end alleyway. Hinged beam door ($1\frac{3}{4}$" thick)</p> <p>ER Hinged steel door. Secured both sides by lock & handle.</p> <p>E & B.R. Hinged steel doors. Secured both sides by lock & handle.</p> </div> <div style="flex: 1; font-size: 2em; font-weight: bold; line-height: 1;">}</div> <div style="flex: 2;"> <p>Secured both sides by lock & catch. Closing appliances not efficient</p> <p>Secured both sides by lock & catch. Closing appliances not efficient.</p> <p>Secured both sides by lock & handle. ✓</p> <p>Secured both sides by lock & handle. ✓</p> </div> </div>
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	
Exposed Machinery Casings on Super-structure 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:—

Timber assignment not required.

Vessel surveyed afloat for freeboard only.

Builder's name and yard number

Napier & Miller Ltd. Glasgow.

Names of sister ships

Owners

United British S.S. Co. Ltd. (Haldia Shipyard)

Fee £

12 : 15 : 0

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