

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

29 JUN 1932

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having Peep, Bridge & ForecastlePort of Survey Antwerp

(Type of Superstructures.)

Date of Survey 24 & 27th June 1932

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

"EGLANTIER"Belgian
Antwerp53151918-9Name of Surveyor W.E. WrayMoulded Dimensions: Length 399.5 Breadth 52.0 Depth 31.0Moulded displacement at moulded draught = 85 per cent. of moulded depth 12080 tonsCoefficient of fineness for use with Tables 772Particulars of Classification +100 A1 9.31S.S. Aut. No. 5.31

Depth for Freeboard (D)

Moulded depth 31.00Stringer plate 0.4Sheathing on exposed deck None

$$T \left(\frac{L-S}{L} \right) =$$

Depth for Freeboard (D) = 31.04

Depth correction

(a) Where D is greater than Table depth

(D-Table depth) R =

$$(31.04 - 26.65) 3 = +13.23$$

(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) 52.0

$$\text{Standard Round of Beam} = \frac{B \times 12}{50} = 12.48$$

Ship's Round of Beam = 13Difference 0.52

Restricted to

$$\text{Correction} = \frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.52}{4} (1 - .5037) = -.06$$

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>7-11½"</u>		<u>49.25</u>
" overhang ...	<u>✓</u>				
R.Q.D. enclosed ...	<u>✓</u>				
" overhang ...	<u>✓</u>				
Bridge enclosed ...	<u>112.66</u>	<u>112.66</u>	<u>7-11½"</u>		<u>112.66</u>
" overhang aft ...	<u>✓</u>				
" overhang forward ...	<u>✓</u>				
Fore enclosed ...	<u>38.25</u>	<u>38.25</u>	<u>7-11½"</u>		<u>38.25</u>
" overhang ...	<u>1.08</u>	<u>1.08</u>			<u>1.08</u>
Trunk aft ...	<u>✓</u>				
" forward ...	<u>✓</u>				
Tonnage opening aft ...	<u>✓</u>				
" " forward ...	<u>✓</u>				
Total ...	<u>201.24</u>	<u>201.24</u>			<u>201.24</u>

Standard Height of Superstructure 7.495" " R.Q.D. 41.96Deduction for complete superstructure 41.96Percentage covered $\frac{S}{L} = 50.37$ " " $\frac{S_1}{L} = 50.37$ " " $\frac{E}{L} = 50.37$

Percentage from Table, Line A.

(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 = 41.96 + 36.37 = -152.6

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	<u>49.95</u>	1		<u>49.95</u>	<u>60.0</u>	<u>60.0</u>	1		<u>60.00</u>
$\frac{1}{8}L$ from A.P. ...	<u>22.23</u>	4		<u>88.92</u>	<u>26½</u>	<u>26.46</u>	4		<u>105.84</u>
$\frac{2}{8}L$ " ...	<u>5.49</u>	2		<u>10.98</u>	<u>6¾</u>	<u>6.61</u>	2		<u>13.22</u>
Amidships ...		4					4		
$\frac{3}{8}L$ from F.P. ...	<u>10.99</u>	2		<u>21.98</u>	<u>13½</u>	<u>13.23</u>	2		<u>26.46</u>
$\frac{1}{8}L$ " ...	<u>44.45</u>	4		<u>177.80</u>	<u>53</u>	<u>52.93</u>	4		<u>211.72</u>
F.P. ...	<u>99.90</u>	1		<u>99.90</u>	<u>120</u>	<u>120.0</u>	1		<u>120.00</u>
Total ...				<u>449.53</u>					<u>537.24</u>

Mean actual sheer aft = SuccessMean actual sheer forward = SuccessLength of enclosed superstructure forward of amidships = 61.66 155" " aft of " = 51.00 127

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{87.71}{18} \left(.75 - \frac{25.18}{18} \right) = -2.43$$

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 31.04 Ft.Summer freeboard = 5.97Moulded draught (d) = 25.07

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 6.26

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$$\Delta = 11479$$

Tons per inch immersion at summer load water line

$$T = 40.38$$

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

$$= \frac{11479}{1615.2} = 7.11 = 18\frac{1}{4}$$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

$$772 + 68 = 840$$

Depth Correction 13.23Deduction for superstructures 2.43Sheer correction 0.06

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

	+	-
Depth Correction	<u>13.23</u>	<u>15.26</u>
Deduction for superstructures		<u>2.43</u>
Sheer correction		<u>0.06</u>
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
Summer Freeboard	<u>71.66</u>	

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

Tropical Fresh Water Line above Centre of Disc ...	<u>340</u>
Fresh Water Line " " ...	<u>181</u>
Tropical Line " " ...	<u>159</u>
Winter Line below " " ...	<u>159</u>
Winter North Atlantic Line " " ...	<u>✓</u>

Tropical Fresh Water Freeboard ...	<u>1.480</u>
Fresh Water " " ...	<u>1.639</u>
Tropical " " ...	<u>1.661</u>
Winter " " ...	<u>1.979</u>
Winter North Atlantic " " ...	<u>✓</u>

PART I

Name of Ship KORNAV

INGS, ETC.

Freeboard Report Examined

(Date) 18th Nov. 1927Signed [Signature]

ECS

Also

Fide Deck. Small hatch to Fide space.
 2-5' x 2-11/16" Steel Coaming 16" high
 2 1/2" wood corner Cleats, Batten & Tarps.
Upper Deck in Fide. Small Hatch to F. Deck.
 3-9' x 3-1' 12" Steel Coaming. 2 1/2" wood corner
 Cleats Batten & Tarps.
Upper Deck in Bridge Turret Decks.
 4 Trimming Hatches 1-11/16' x 4' 9" B.A. Coaming
 2 1/2" wood corner Cleats Batten & Tarps.
 2 Coaling Hatches P.S. 9-3' x 4'-0" 9" B.A.
 Coaming. 2 1/2" Wood Corner + Cleats. No
 Batten or Tarps.
Coal Shoot.
 4-0' x 4-0' with 2 clips.
 in good order.
Edge Deck.
 Opening 4-4' x 3-6".
Bridge Deck. 2 Coaling Hatches 9-3' x 4'-0"
 Coaming 18 1/2" x 4-0". 2 1/2" wood corner with cleats
 Batten & Tarps.
 Small Hatch in Saloon Deck House to Steward's Store.
 2-3' x 2-6" with Hinged wood grating.
 Small Hatch in Engine Room Deck House to
 Cabins in Bridge Turret Decks on Port Side
 3-9' x 3-0" No coaming.
 Cross Bunker Hatch on Fiddle Coaming Top
 18'-2" x 4'-5" 12" Cmg. Cleats, Batten & Tarps.

Description of Hatchway	No 1	No 2	No 3	No 4	X Bunker	X Bunker
Dimensions of Hatchway	32'-4" x 26'-0"	34'-8" x 26'-0"	34'-8" x 26'-0"	28'-3" x 26'-0"	10'-9" x 18'-0"	10'-9" x 18'-0"
COAMINGS	Height above Deck	30"	30"	30"	30"	30"
	Thickness	4 1/4"	4 1/4"	4 1/4"	4 1/4"	4 1/4"
	Sides	4 1/4"	4 1/4"	4 1/4"	4 1/4"	4 1/4"
	Ends	4 1/4"	4 1/4"	4 1/4"	4 1/4"	4 1/4"
Stiffeners	...	B.A. 10 x 3 1/2 x 42	as NO 1	as NO 1	as NO 1	as NO 1
	Brackets, Stays	2-1 1/2 dia.	"	"	"	"
HATCH BEAMS	Number	6	6	6	5	5
	Spacing	4'-7"	4'-11"	4'-11"	4'-8"	5'-4 1/2"
	Scantling and Sketch	Plat 24 x 40	as NO 1	as NO 1	as NO 1	18 x 40
	Bearing Surface	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"
FORE AND AFTERS	Number				None	None
	Spacing				None	None
	Unsupported Lengths				None	None
	Scantling* and Sketch				None	None
HATCH COVERS	Material	Wood	as NO 1	as NO 1	as NO 1	as NO 1
	Thickness	2 1/4"	"	"	"	"
	How fitted	F + A	"	"	"	"
	Bearing Surface	3"	"	"	"	"
Spacing of Cleats	...	23"	as NO 1	as NO 1	as NO 1	as NO 1
Number of Tarpaulins	...	3	"	"	"	"

- *Are wood fore and afters steel shod at all bearing surfaces? ☒
 Are battens and wedges efficient and in good condition? ☒
 Are tarpaulins in good condition and in accordance with rule requirements? ☒
 Are lashings provided in accordance with rule requirements? ☒

Particulars of fiddle, funnel and ventilator coamings:—

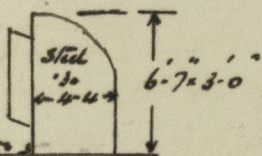
- 2 Large Ventilators to Boiler Room mechanically worked.
 B.R. Gratings. 2 1/2" Angle Coaming with Steel Storm Covers.
 2 Large Ventilators to Engine Room. Engine Room Skylight Steel plates & Angles with Hinged flaps.

Particulars of Flush Bunker Scuttles:— None.

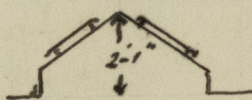
Particulars of Companionways:— 2 on Poop Deck.

Wood door 5'-0" x 2'-8" with 12"
 sill. open from both sides

Riveted to Deck



3 Skylights on Poop Deck. Steel with
 Hinged flaps & brush caps.



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

Poop Deck.

Fide Deck				Fore Deck				Bridge Deck				Poop Deck			
No	Dia	Ht of Cmg	Thk	No	Dia	Ht of Cmg	Thk	No	Dia	Ht of Cmg	Thk	No	Dia	Ht of Cmg	Thk
2	17 1/2"	36"	.32	6	18"	37"	.38"	2	17 1/2"	37"	.32	1	18"	35"	.30"
2	11 1/2"	32"	.30	After Deck				1	8"	15"	.26	5	12 1/2"	30"	.26
1	8 1/2"	39"	.30	2	18"	37"	.38"	2	12 1/2"	19"	.32	3	10"	24"	.22"

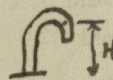
2 Goosenecks 6" x 4" H = 31"

Wood plugs & canvas covers
 to Ventilator Coamings.
 Efficient means of closing Goosenecks.

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

Fide Deck	Fore Deck	Bridge Deck	After Deck	Poop Deck
1 1/2" F. Pipe T. 8 1/2" dia H = 28"	5 1/2" D. B. H = 27"	4 1/2" D. B. H = 26"	3 1/2" D. B. H = 26"	2 1/2" Ap. H = 27"
1 1/2" NOT D. B. 2 1/2" H = 27"				

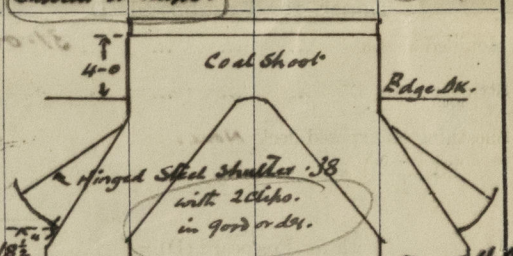
Efficient
 means of closing provided

Particulars of Gangway Cargo and Coaling Ports:— None.

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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

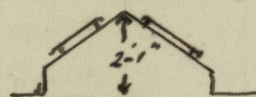
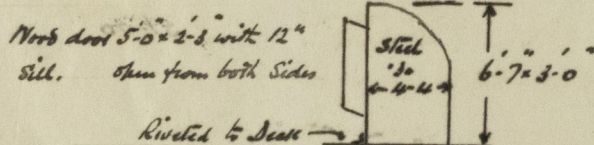
HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS											
		Fore Deck.		After Deck		Bridge Deck.		Bridge Turret Deck.		Also	
Description of Hatchway		No 1	No 2	No 3	No 4.	X Bunkers	X Bunkers	Fide Deck. Small hatch to Fide Space.			
Dimensions of Hatchway		32'-4" x 26'-0"	34'-8" x 26'-0"	34'-8" x 26'-0"	28'-3" x 26'-0"	10'-9" x 18'-0"	10'-9" x 18'-0"	2'-5 1/2" x 2'-11 1/2". Steel Coaming 16" high			
COAMINGS	Height above Deck	30"	30"	30"	30"	30"	9" Bulk	2 1/2" Wood Coaming Cleats, Batten & Tacks.			
	Thickness	4 1/4	4 1/4	4 1/4	4 1/4	4 1/4	Angle	Upper Deck in Fide. Small Hatch to F. Peak			
	Stiffeners	B.A. 10 x 3 1/2 x 42	as NO 1	as NO 1	as NO 1	10" B.A. for		3'-9" x 3'-1". 12" Steel Coaming. 2 1/2" Wood Coaming			
	Brackets, Stays	2-1 1/2" dia.	"	"	"	end only.		Cleats Batten & Tacks.			
HATCH BEAMS	Number	6	6	6	5	1	1	Upper Deck in Bridge Turret Decks.			
	Spacing	4'-7"	4'-11"	4'-11"	4'-8"	5'-4 1/2"	5'-4 1/2"	4 Timmering Hatches 1'-11 1/2" x 4' 9" B.A. Coaming			
	Scantling and Sketch	Plate 24 x 40	as NO 1	as NO 1	as NO 1	13 x 40	17 x 40	2 1/2" Wood Coaming. Cleats Batten & Tacks.			
		Angle 6 x 3 1/2 x 45	"	"	"	6 x 3 1/2 x 36	6 x 3 1/2 x 36	2 Coaling Hatches P.S. 9'-3" x 4'-0". 9" B.A. Coaming. 2 1/2" Wood Coaming & Cleats. Batten or Tacks.			
Bearing Surface		3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	No			
FORE AND AFTERS	Number					None.	None.				
	Spacing										
	Unsupported Lengths										
	Scantling* and Sketch										
Bearing Surface											
HATCH COVERS	Material	Wood	as NO 1	as NO 1	as NO 1	as NO 1	as NO 1.	Opening 4'-4 1/2" x 3'-6".			
	Thickness	2 1/4"	"	"	"	"	"	Bridge Deck. 2 Coaling Hatches 9'-3" x 4'-0"			
	How fitted	F & A	"	"	"	"	"	Coaming 18 1/2" x 40". 2 1/2" Wood Coaming with Cleats			
	Bearing Surface	3"	"	"	"	"	"	Batten & Tacks.			
Spacing of Cleats		23"	as NO 1	as NO 1	as NO 1	as NO 1	"	Small Hatch in Saloon Deck House 4' x 5' x 10' x 10'			
Number of Tarpaulins		3	"	"	"	"	None /	2'-3" x 2'-6" with Hinged Wood Grating.			
								Small Hatch in Engine Room House 4' x 5' x 10' x 10'			
								Cabin in Bridge Turret Decks on Port Side			
								3'-9" x 3'-0" no coaming.			
								Cross Bunker Hatch no Tarpaulin Coaming Top			
								18'-2" x 4'-5" 12" Coaming. Cleats, Batten & Tacks.			
*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:—

- 2 Large Ventilators to Boiler Room mechanically worked.
- B.R. Gratings. 2 1/2" Angle Coaming with Steel Storm Covers.
- 2 Large Ventilators to Engine Room. Engine Room Skylight Steel plates & Angles with Hinged Flaps.

Particulars of Flush Bunker Scuttles:— None.

Particulars of Companionways:— 2 on Prop Deck.



3 Skylights on Prop Deck. Steel with Hinged Flaps & Angle caps.

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

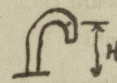
Fore Deck				Fore Deck				Bridge Deck				Poop Deck			
No	Dia	Ht of Cmg	Thk	No	Dia	Ht of Cmg	Thk	No	Dia	Ht of Cmg	Thk	No	Dia	Ht of Cmg	Thk
2	17 1/2"	36"	.32	6	18"	37"	.38"	2	17 1/2"	37"	.32	1	18"	35"	.30"
2	11 1/2"	32"	.30	After Deck				1	8"	15"	.26	5	12 1/2"	30"	.26
1	8 1/2"	39"	.30	2	18"	37"	.38"	2	12 1/2"	19"	.32	3	10"	24"	.22"
2 Goosenecks 6" x 4" H = 31"												5 Goosenecks 6" x 4" H = 10"			

Wood plugs & Canvas Cover to Ventilator Coamings. No means of closing Goosenecks.

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

Fore Deck	Fore Deck	Bridge Deck	After Deck	Poop Deck
1 to F. Peak T. 8 1/2" dia H = 28"	5 to D. B. H = 27"	4 to D. B. H = 26"	3 to D. B. H = 26"	2 to AP. H = 27"
1 to No 1 D. B. 2 1/2" H = 27"				

Efficient No means of closing provided



Particulars of Gangway Cargo and Coaling Ports:— None.



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Particulars of Scuppers and Sanitary Discharge Pipes —

Particulars of Scuppers and Sanitary Discharge Pipes —

Fore Deck. 2 in Stanchion Angle & 1 overboard.	After Dk. 3 in Stanchion Angle & 1	3 Scuppers in Bridge Treen Decks	3 Scuppers Po 5 from Bridge
5 below Upper Dk. No N.R.V. fitted	subboard below U.Dk. No NRV.	Disc. overboard below U.Dk. No NRV.	Deck. Disc. overboard in bridge
	<u>Port & Starboard</u>	<u>Port & Starboard</u>	<u>Tween Decks. No NRV.</u>
U.D.			
3-6			
	Crews W.C. in Fore. Discharge overboard above Upper Dk. NRV. fitted.	Emigrants W.C. & discharge overboard below the	Upper Deck. NRVs fitted.
	Captain & Officers W.C. & " " in Bridge Treen Decks. " " .		

Particulars of Side Scuttles: 10 in Forecastle space + 25 in poop space.

Deadlights fitted.

Particulars of Guard Rails :—

Grand Raib on Pooh & Full Ducks.

Steel Bulwarks on Bridge Deck between deck houses, with Stiffeners $3\frac{1}{2} \times 3\frac{1}{2}$ " 5'-2" apart & $1\frac{1}{2}$ " dia. Stay
to each

Particulars of Gangways, Lifelines, etc. :—

Fitted as & when considered necessary
No special fittings provided.

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'-9"	3'-7½"	4'-6" x 1'-6"	3	20.25	19.95
Forward Well	98'-6"	3'-7½"	4'-6" x 1'-6"	3	20.25	19.7

State position of each freeing port
(F. and A. position and height above deck edge)

After Well:—
Forward Well:—

ers, bars, or rails, and give particulars of such:— 2 Rds Horizontal 6" sheet

F.P. $15\frac{1}{2}$ " above
deck edge.

Additional area where sheer is less than standard.

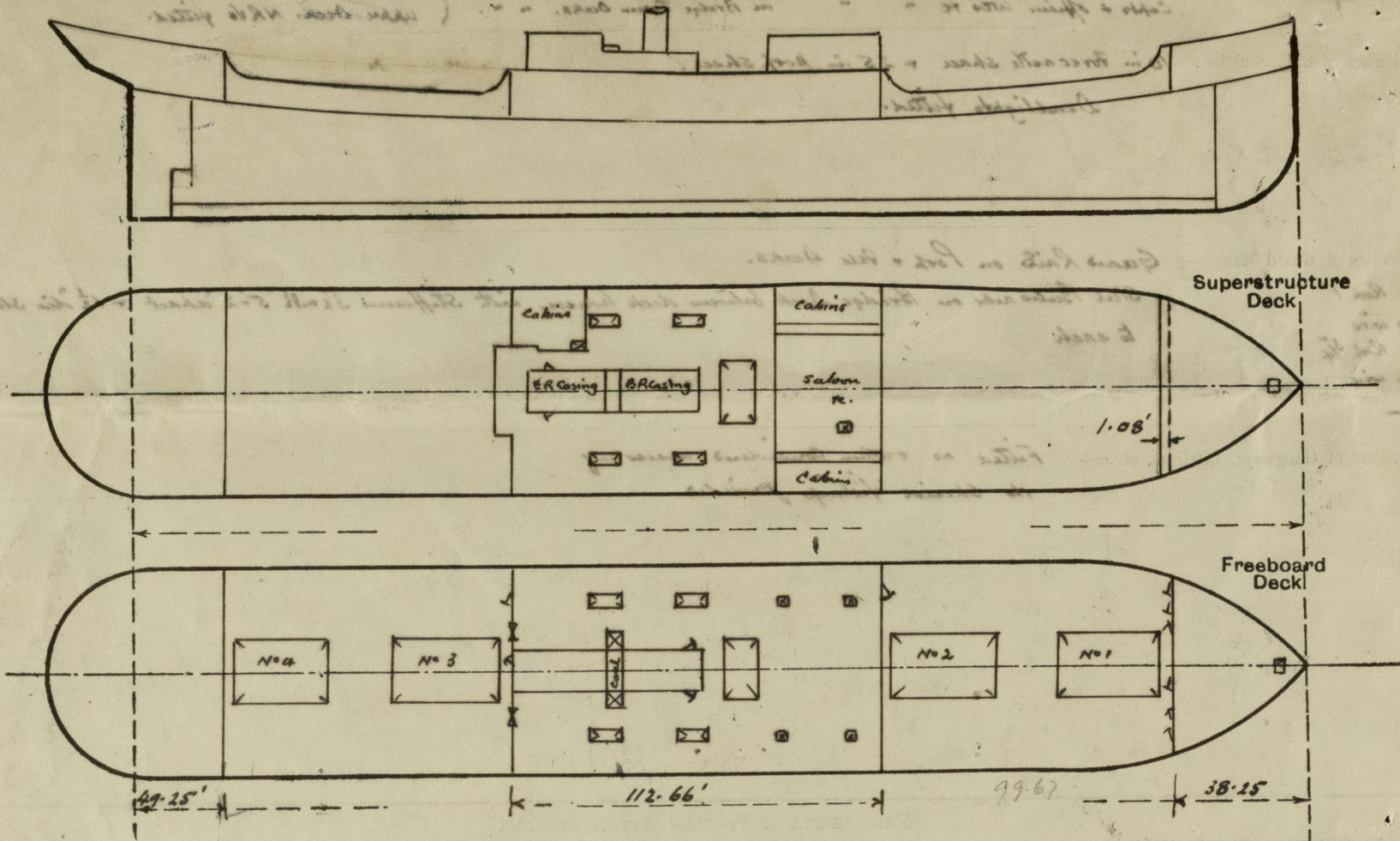
Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ... ..	.40	.30	6 \times 3 $\frac{1}{2}$ \times 42	30	Bkls. Top & Bot	None	✓	✓
Raised Quarter Deck Bulkhead ...	✓					1-4 \times 8 \times 2-3	2-3 To Long R ²	
Bridge, After Bulkhead ... ..	.35	.32	4 \times 3 $\frac{1}{2}$ \times 42	29	none	2-4 \times 8 \times 5-6 1-5-6 \times 2-0	1-11 To B.T. Dks. 1-3 To E.R.	
Bridge, Forward Bulkhead ... ..	.45	.40	9 \times 3 $\frac{1}{2}$ \times 56 B.A.	30	Bkls. Top & Bot	4-6 \times 2-6	2-11	
Forecastle Bulkhead ... ..	.30	.30	5 $\frac{1}{2}$ \times 3 $\frac{1}{2}$ \times 40 + Bkls.	33	none	5-3 \times 1-11 $\frac{1}{4}$	1-4	
Trunk, Aft	✓							
Trunk, Forward	✓							
Exposed Machinery Casings on Free- board or Raised Quarter Decks ...	✓							
Exposed Machinery Casings on Super- structure Decks	Plains Vented	.35	5 $\frac{1}{2}$ \times 3 $\frac{1}{2}$ \times 55	39	Bkls. Top	5-6 \times 2-3	1-2 $\frac{1}{2}$	8-0
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances ... ..	.35	.35	50	36 & 39	none at bottom	5-9 \times 2-0	8 $\frac{1}{2}$	-
Deckhouses on Flush Deck Ships ...								

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

Poop Bulkhead	No openings
Raised Quarter Deck Bulkhead ...	✓
Bridge, After Bulkhead	1 Hinged Steel Door to Launch Room looked. 2 openings 4-9 1/2 x 3-6 with Storm boards full Ht. in Rwd Channel 1 Hinged Steel Door to Eng. Rm open from both Sides
Bridge, Forward Bulkhead	one Hinged Steel Watertight door. with 14 Hinged bolts & butterfly nuts. Open from star deck only.
Forecastle Bulkhead	6 Hinged Steel doors. only. door hatch with lock & key. Open from both Sides.
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	✓
Exposed Machinery Casings on Super-structure Decks	1 Hinged Steel door Port & Star to Engine Rooms. open from both Sides
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	1 Hinged Steel door Port & Star to Boiler Room. with ordinary door latch in port order. used releasing
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:—

Shed examined in dry dock. No part of Special Survey carried out. (Not due)
A General Arrangement plan is forwarded herewith, which may be retained.
For particulars of displacement &c see owners letter attached.

Builder's name and yard number

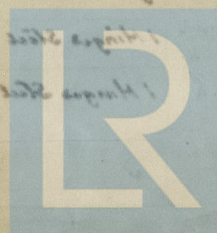
Names of sister ships

Owners

Fee *Francis 3300*—

Received by me

Exp 102 - 28/6/32



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