

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD. N^o 30885

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having Coop, Long Bridge & Forecastle

(Type of Superstructures.)

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
"S.S. FYLINGDALE"	BRITISH WHITBY	137086	3918 3930	1924 12 mo

Moulded Dimensions: Length **364.00** Breadth **51.20** Depth **25.00**
Moulded displacement at moulded draught = 85 per cent. of moulded depth **8923** tons
Coefficient of fineness for use with Tables **.489**

Port of Survey Sunderland
Date of Survey 17th April 1932
Name of Surveyor James Dickie
Particulars of Classification +100A1

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth 25.0	(a) Where D is greater than Table depth (D - Table depth) R = (25.03 - 24.24) x 2.800 = +2.13	Moulded Breadth (B) 51.2 1/2" Standard Round of Beam = $\frac{B \times 12}{50} = 12.29$ Ship's Round of Beam = 12.7 Difference 12.7 - 12.29 = .59
Stringer plate ... .. .36	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Restricted to
Sheathing on exposed deck <u>none</u> $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures <input checked="" type="checkbox"/>	Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.59}{4} \times .2094 = .03$
Depth for Freeboard (D) = 25.03		

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	32.96	32.96	8' 6"	<input checked="" type="checkbox"/>	32.96	Standard Height of Superstructure 7.14
" overhang ...						" " R.Q.D. <input checked="" type="checkbox"/>
R.Q.D. enclosed ...	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			Deduction for complete superstructure 39.60
" overhang ...						Percentage covered $\frac{S}{L} = 79.06$
Bridge enclosed ...	222.25	222.25	8' 6"	<input checked="" type="checkbox"/>	222.25	" " $\frac{S_1}{L} = 79.06$
" overhang aft ...						" " $\frac{E}{L} = 79.06$
" overhang forward ...						Percentage from Table, Line A. (corrected for absence of forecastle (if required))
Fore enclosed ...	32.54	32.54	8' 6"	<input checked="" type="checkbox"/>	32.54	Percentage from Table, Line B. (corrected for absence of forecastle (if required)) 74.14
" overhang ...						Interpolation for bridge less than 2L (if required) <input checked="" type="checkbox"/>
Trunk aft ...						Deduction = .7414 x 39.60 = 29.36
" forward ...	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
Tonnage opening aft ...						
" forward ...						
Total ...	287.45	287.45			287.45	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate (1906)	S	M	Product	Mean actual sheer aft = <u>excess.</u>
A.P. ...	46.40	1		46.40	57.00	57.00	1		57.00	Mean actual sheer forward = <u>excess.</u>
1/4 L from A.P. ...	20.65	4		82.60	25.33	24.19	4		99.16	Mean standard sheer aft = <u>excess.</u>
2/4 L " ...	5.10	2		10.20	6.33	6.18	2		12.36	Mean standard sheer forward = <u>excess.</u>
Amidships ...		4		0			4			Length of enclosed superstructure forward of amidships = .304
3/4 L from F.P. ...	10.21	2		20.42	12.66	12.36	2		24.72	" " aft of " = .304
1/4 L " ...	41.30	4		165.20	50.66	49.57	4		198.28	
F.P. ...	92.80	1		92.80	114.00	114.00	1		114.00	
Total ...				417.62					505.52	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{87.90}{18} \left(\frac{75-39.53}{2 \times 364} \right) = -1.43$

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 = **25.03**
Summer freeboard = **3.04**
Moulded draught (d) = **21.99**

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **5.5 - 5 1/2"**
Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 9313$
Tons per inch immersion at summer load water line
 $T = 37.84$
Deduction = $\frac{\Delta}{40T}$ inches = **6.15**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.489 + .68}{1.36} \times 60.60 =$

	+	-
Depth Correction ...	2.13	
Deduction for superstructures ...		29.36
Sheer correction ...		1.73
Round of Beam correction ...		.03
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc. ...		
	2.13	31.12

Summer Freeboard = **36.40**

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

25 APR 1932

Tropical Fresh Water Line above Centre of Disc ...	1 1/4"
Fresh Water Line " " ...	6 1/4"
Tropical Line " " ...	5 1/2"
Winter Line below " " ...	5 1/2"
Winter North Atlantic Line " " ...	6 1/4"

Tropical Fresh Water Freeboard ...	2 - 0 1/2"
Fresh Water " " ...	2 - 6 1/4"
Tropical " " ...	2 - 7"
Winter " " ...	3 - 6"
Winter North Atlantic " " ...	2 - 0 1/2"

20 APR 1932

2 - 6 1/4"

2 - 7"

3 - 6"

2 - 0 1/2"

Lloyd's Register

MARKING FORM

2 MAR 1934

RECEIVED

MARKING FORM

24 AUG 1932

RECEIVED

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
← BRIDGE SPACE →									
Description of Hatchway	...	...	...	...	...	...	...	...	...
Dimensions of Hatchway	...	...	...	...	...	...	...	...	...
COAMINGS	Height above Deck	36"	30"	30"	36"	30"	30"	30"	36"
	Thickness	4 1/4"	4 1/4"	4 1/4"	4 1/4"	4 1/4"	4 1/4"	4 1/4"	4 1/4"
	Stiffeners	7 x 3 x 1/4"	7 x 3 x 1/4"	7 x 3 x 1/4"	7 x 3 x 1/4"	7 x 3 x 1/4"	7 x 3 x 1/4"	7 x 3 x 1/4"	7 x 3 x 1/4"
	Brackets, Stays	2"	2"	2"	2"	2"	2"	2"	2"
HATCH BEAMS	Number	5	4	4	5	2	5	5	2
	Spacing	4' 10 1/2"	6' 0 1/2"	6' 0 1/2"	5' 0 1/2"	5' 6"	5' 0 1/2"	5' 0 1/2"	5' 6"
	Scantling and Sketch	18 x 36 4 x 3 x 1/4"	16 x 36 4 x 3 x 1/4"	16 x 34 4 x 3 x 1/4"	18 x 36 4 x 3 x 1/4"	16 x 32 4 x 3 x 1/4"	18 x 36 4 x 3 x 1/4"	18 x 36 4 x 3 x 1/4"	18 x 38 4 x 3 x 1/4"
	Bearing Surface	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"	3 1/2"
FORE AND AFTERS	Number	NONE							
	Spacing								
	Unsupported Lengths								
	Scantling* and Sketch								
HATCH COVERS	Material	Pl.	Pl.	Pl.	Pl.	Pl.	Pl.	Pl.	Pl.
	Thickness	3"	3"	3"	3"	3"	2 1/2"	2 1/2"	2 1/2"
	How fitted	F + A	F + A	F + A	F + A	F + A	F + A	F + A	F + A
	Bearing Surface	3"	3"	3"	3"	3"	2 1/2"	2 1/2"	2 1/2"
Spacing of Cleats	...	24"	24"	24"	24"	24"	24"	24"	24"
Number of Tarpaulins	...	4	4	4	4	4	2	2	2

Particulars of fiddle, funnel and ventilator coamings:— *Stokehold gratings covered by strong steel hinged covers. Fiddle & Funnel Ventilators in efficient condition. On fire skylight of steel strongly constructed.*

Particulars of Flush Bunker Scuttles:— *NONE*

Particulars of Companionways:— *One steel companion on poop to crew space 6'3" high x 4'0" long x 3'6" wide x 26" thick + 15" sill, fitted with 1 1/2" oak door on after side.*

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—									
one	ventilator	on	fore	cable	deck	6 1/2" dia.	coaming	36" x 30"	led to B. room
3	"	"	"	"	"	22"	"	39" x 30"	Accom. below.
2	"	"	"	"	"	22"	"	39" x 40"	hol. hold.
4	"	"	"	"	"	22"	"	36" x 40"	hol. hold. + 1/2" hold.
2	"	"	"	"	"	22"	"	30" x 40"	hol. hold. + 1/2" hold.
2	"	"	"	"	"	22"	"	30" x 40"	hol. hold. + 1/2" hold.
4	"	"	"	"	"	22"	"	30" x 40"	hol. hold. + 1/2" hold.
2	"	"	"	"	"	22"	"	30" x 40"	hol. hold. + 1/2" hold.
2	"	"	"	"	"	18"	"	30" x 32"	hol. hold. + 1/2" hold.
2	"	"	"	"	"	10"	"	30" x 32"	hol. hold. + 1/2" hold.
2	"	"	"	"	"	6"	"	30" x 30"	hol. hold. + 1/2" hold.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—									
One	C.I.	air	pipe	on	upper	deck	inside	fore	cable
one	"	"	"	"	"	33"	high	x 2 1/2"	dia.
2	"	"	"	"	"	33"	high	x 2 1/2"	dia.
4	"	"	"	"	"	33"	high	x 2 1/2"	dia.
2	"	"	"	"	"	33"	high	x 2 1/2"	dia.
2	"	"	"	"	"	33"	high	x 2 1/2"	dia.
2	"	"	"	"	"	33"	high	x 2 1/2"	dia.
2	"	"	"	"	"	33"	high	x 2 1/2"	dia.
2	"	"	"	"	"	33"	high	x 2 1/2"	dia.
2	"	"	"	"	"	33"	high	x 2 1/2"	dia.

Particulars of Gangway Cargo and Coaling Ports:— *NONE*

tyling dace

Particulars of Scuppers and Sanitary Discharge Pipes :-
 4" Storm Valves two ports & two
 carbon d. from crew's quarters in poop
 side, led out above foreboard deck.
 through & finally discharge & led
 above foreboard deck without
 valves.

4 joined steel scuppers from bridge to main decks led out
 below foreboard deck without storm valves. Scuppers
 - one covered by plate & secured by one bolt & nut in center.
 One cast iron 4" storm valve on starboard side from crew's
 quarters in forecabin led out - above foreboard deck.
 One cast iron 4" storm valve on starboard side from Captain's Cabin
 above led out in bridge to main decks.
 2 cast iron 4" storm valves one port & one starboard from Officer's
 engine room on bridge deck, led out in bridge to main decks.

Particulars of Side Scuttles:

Side scuttles to crew spaces in poop & forecabin fitted
 with hinged-deadlights.
 - all scuttles of substantial construction.
 No scuttles below foreboard-deck or in bridge space.

Particulars of Guard Rails:-

Guard rails on forecabin, bridge & poop 3' 6" high with three rods
 & stanchions about 4' 6" apart.
 Bulwark on Bridge Deck - in way of carings & deck houses
 3' 6" high, with 2 1/2" plating & 5 stays 1 1/2" x 3" x 130 - about 6' 0" apart.
 Two freeing ports in bulwarks each side 2' 6" x 1' 6" fitted with one rod
 fore & aft. Freeing ports 9" above - deck edge.

Particulars of Gangways, Lifelines, etc.:-

Portable-wood gang way over wells from poop to bridge &
 bridge to forecabin, with portable stanchions about
 4' 6" apart & two wires, 3' 6" high.
 Gang way strongly constructed & supported with angle iron
 supports & stays about 8' 0" apart & bracketed to well deck.

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	38.50	4.0	3.41 x 1.50	3	15.39	10.5
Forward Well	37.75	4.0	3.41 x 1.50	3	15.39	10.5

State position of each freeing port See Sketch. After Well:- One each end of well & one in way of center of hatch.
 (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:- One rod to each freeing port
 fitted fore & aft.

Additional area where sheer is less than standard.

Particulars of Superstructures, Trunks, Casings, Deckhouses.

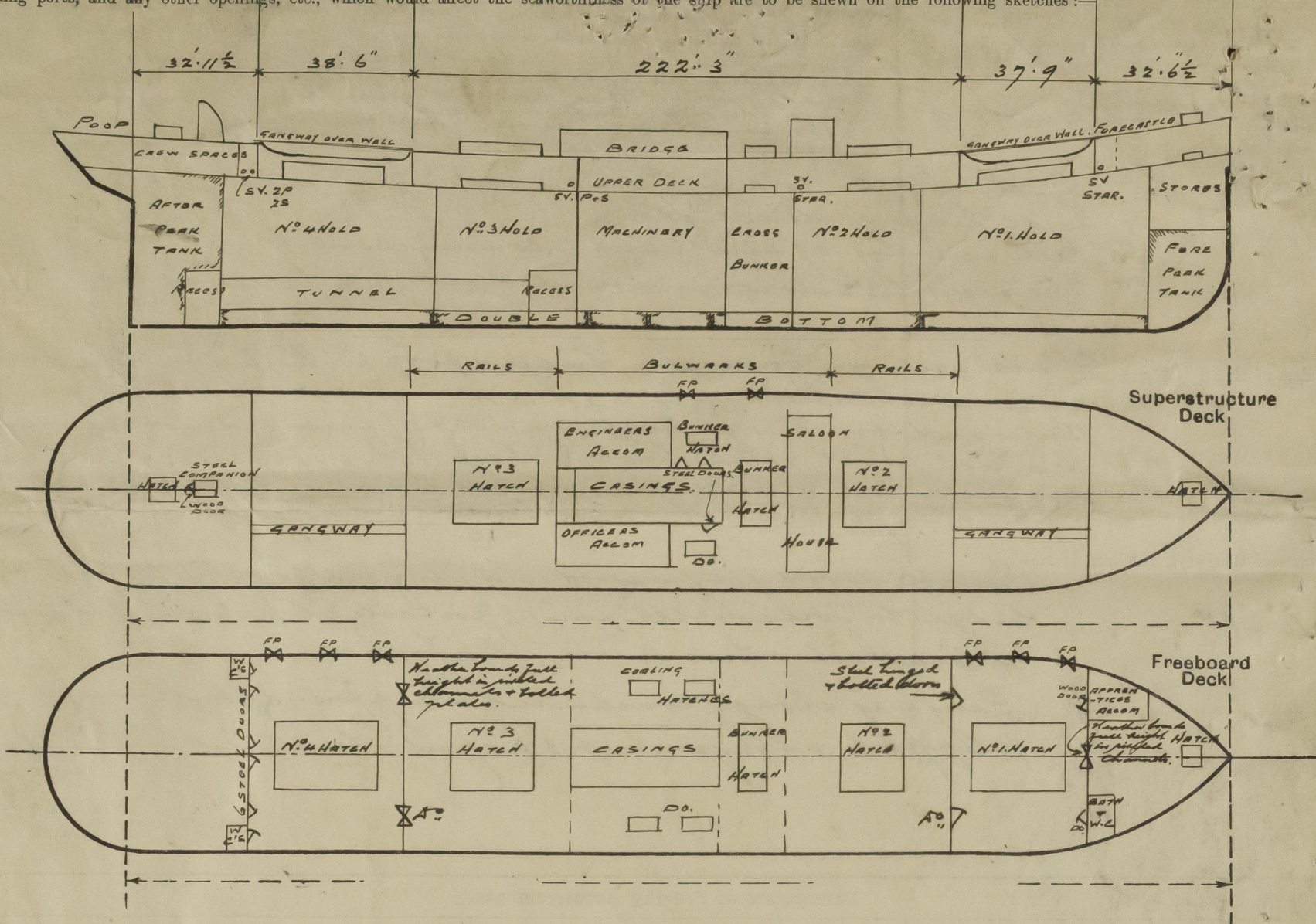
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	18" x 40"	3/16"	6 x 3 x 40"	30" + 7" fore steel bulkhead	None	5' 0" x 2' 0"	18"	
Raised Quarter Deck Bulkhead ...	✓	✓	✓	✓	✓	✓	✓	✓
Bridge, After Bulkhead	30" x 30"	3/16"	4 x 3 x 30"	31"	None	5' 6" x 3' 1"	18"	✓
Bridge, Forward Bulkhead	24" x 44"	1/4"	9 x 3 1/2 x 48"	31"	Lugged	5' 6" x 3' 1"	18"	✓
Forecabin Bulkhead	✓	3/16"	2 1/2" steel bulkhead	30"	None	5' 0" x 2' 0" 5' 6" x 3' 1"	18"	✓
Trunk, Aft	✓	✓	✓	✓	✓	✓	✓	✓
Trunk, Forward	✓	✓	✓	✓	✓	✓	✓	✓
Exposed Machinery Casings on Fore- board or Raised Quarter Decks ...	✓	✓	✓	✓	✓	✓	✓	✓
Exposed Machinery Casings on Super- structure Decks	18" x 30"	2/16"	3 1/2 x 3 x 34" 5 x 3 x 3 x 34"	33"	None	5' 0" x 2' 0"	18"	7' 3" 7' 0"
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances	18" x 30"	2/16"	" " "	" " "	Slip on carried down to bottom of casing.	5' 0" x 2' 0"	18"	8' 6"
Deckhouses on Flash Deck Ships ...	✓	✓	✓	✓	✓	✓	✓	✓

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

Poop Bulkhead	6 steel hinged-doors to side houses & crew spaces operated from both sides
Raised Quarter Deck Bulkhead ...	✓
Bridge, After Bulkhead	2 openings with weather bands full height in welded channels & portable bolted plates.
Bridge, Forward Bulkhead	2 steel hinged & bolted-doors operated from both sides.
Forecabin Bulkhead	one opening in center fitted with weather bands full height in welded channels & 2 steel hinged-doors to side houses in forecabin.
Exposed Machinery Casings on Fore- board or Raised Quarter Decks ...	✓
Exposed Machinery Casings on Super- structure Decks	3 steel hinged-doors operated from both sides.
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances	2 steel hinged-doors operated from both sides.
Deckhouses on Flash Deck Ships ...	✓

FLYING DALE

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo 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:-

External Displacement & Tonnage per inch.

Draft.	Displacement.	Tons per inch.
21' 0"	8786	37.65
22' 0"	9240	37.81
23' 0"	9695	37.97

OMIT

Builder's name and yard number: J. L. Thompson & Sons Ltd. No. 553.

Names of sister ships: ✓

Owners: Rowland & Harwood's S.S. Co. Ltd. (Headlam & Sons, Managers).

Fee £ 11 : 18 : -

Received by me

OMIT



© 2020

Lloyd's Register Foundation