

Particular

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having FORECASTLE & RAISED QUARTER DECK, BRIDGE ON Q^R DE

SAINTE

SIE BERNADETTE (Type of Superstructures.)

Ship's Name

Nationality and Port of Official Number

Gross Tonnage

Date of Build

LOUIE ROSE

Registry French
17265
LIVERPOOL - Lunis

1596

1924-7.

Port of Survey NEWCASTLE ON TYNE

Date of Survey 29.3.32

Name of Surveyor J. A. Dawson

Particulars of Classification 4100 A.1

Moulded Dimensions: Length 250.0 Breadth 37.0 Depth 18.5
Moulded displacement at moulded draught = 85 per cent. of moulded depth 3200 tons
Coefficient of fineness for use with Tables 770

Depth for Freeboard (D)

Moulded depth ... 18.50

Stringer plate04

Sheathing on exposed deck

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

Depth for Freeboard (D) = 18.54

Depth correction

(a) Where D is greater than Table depth

(D-Table depth) R =

 $(18.54 - 16.67) \times 1.923 = +3.60$

(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) 37.0

Standard Round of Beam = $\frac{B \times 12}{50} = 8.88$

Ship's Round of Beam = 9

Difference .12

Restricted to

Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.12^2}{4} \times \left(1 - \frac{71.64}{179.08} \right) = -.01$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
" overhang ...					
R.Q.D. enclosed ...	155.79	155.79	4.0		155.79
" overhang ...					
Bridge enclosed ...	12.65		7.0		
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	23.29	23.29	7.0		23.29
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	179.08	179.08			179.08

Standard Height of Superstructure 6'-0" ✓

" " R.Q.D. 4'-0" ✓

Deduction for complete superstructure 31.0 ✓

Percentage covered $\frac{S}{L} = 71.64$ ✓" $\frac{S_1}{L} = 71.64$ ✓" $\frac{E}{L} = 71.64$ ✓

Percentage from Table, Line A. 65.02 ✓

(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 = $31.0 \times .6502 = -20.16$ ✓

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	35.00	1	35.00	49.0	49.00	1	49.00
1/2 L from A.P. ...	15.57	4	62.28	18.5	18.56	4	74.24
1/2 L " ...	3.85	2	7.70	4.5	4.64	2	9.28
Amidships ...	-	4	-	-	-	4	-
1/2 L from F.P. ...	7.70	2	15.40	9.0	9.07	2	18.14
1/2 L " ...	31.15	4	124.60	36.5	36.30	4	145.20
F.P. ...	70.00	1	70.00	80.5	80.50	1	80.50
Total ...			314.98				376.36

Mean actual sheer aft = 4.64

Mean standard sheer aft = 4.64

Mean actual sheer forward = 4.64

Mean standard sheer forward = 4.64

Length of enclosed superstructure forward of amidships = .123

" " aft of " = .50

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{61.38}{18} \left(.75 - \frac{35.82}{179.08} \right) = -1.34$ ✓

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 = 22.54

Summer freeboard = 5.37

Moulded draught (d) = 17.18

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 4.28 = 4.4

Addition for Winter North Atlantic Freeboard (if

required = 2.0

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

= 4 1/2"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{770+68}{1.36} = \frac{1.45}{1.36}$

+ -

Depth Correction ... 3.60

Deduction for superstructures ... 20.16

Sheer correction ... 1.34

Round of Beam correction01

Correction for Thickness of Deck amidships ...

Other corrections/scantlings, etc. ... 48.00

51.60 21.51 + 30.09

Summer Freeboard = 64.53

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

Tropical Fresh Water Line above Centre of Disc ... 8 1/2"

Fresh Water Line " " ... 4 1/2"

Tropical Line " " ... 4 1/2"

Winter Line below " " ... 4 1/2"

Winter North Atlantic Line " " ... 5 1/2"

Tropical Fresh Water Freeboard ... 4 1/2"

Fresh Water " " ... 5 1/2"

Tropical " " ... 5 1/2"

Winter " " ... 5 1/2"

Winter North Atlantic " " ... 5 1/2"

RECEIVED 27 OCT 1936

RECEIVED 17 JAN 1933

RECEIVED 25 AUG 1932

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	...	...	...	...	...	...	...	...	...
Dimensions of Hatchway	...	...	...	...	...	...	...	...	...
COAMINGS	Height above Deck	...	...	...	...	...	...	...	...
	Thickness	...	...	...	...	...	...	...	...
	Stiffeners	...	...	...	...	...	...	...	...
	Brackets, Stays	...	...	...	...	...	...	...	...
	
HATCH BEAMS	Number	...	...	...	...	...	...	...	...
	Spacing	...	...	...	...	...	...	...	...
	Scantling and Sketch	...	...	...	...	...	...	...	...
	
	Bearing Surface	...	...	...	...	...	...	...	...
FORE AND AFTERS	Number	...	...	...	...	...	...	...	...
	Spacing	...	...	...	...	...	...	...	...
	Unsupported Lengths	...	...	...	...	...	...	...	...
	Scantling* and Sketch	...	...	...	...	...	...	...	...
	Bearing Surface	...	...	...	...	...	...	...	...
HATCH COVERS	Material	...	...	...	...	...	...	...	...
	Thickness	...	...	...	...	...	...	...	...
	How fitted	...	...	...	...	...	...	...	...
	Bearing Surface	...	...	...	...	...	...	...	...
	
Spacing of Cleats	...	...	...	...	...	...	...	...	...
Number of Tarpaulins	...	...	...	...	...	...	...	...	...
<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>									

Particulars of fiddle, funnel and ventilator coamings: - Fiddle, joinings good condition. Covers & rings require repair.
Engine Room skylight & steel with cast iron frames having bulls eyes. Frame broken and
bulls eyes either broken or missing in remainder.
Funnel and fiddle vents in good condition.
require repairs.

Particulars of Flush Bunker Scuttles:— *none.*

Particulars of Companionways :— none. ✓

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

FORE WELL: 2 VENTS. 16 1/2" DIA. COAMING 38" x 38" LED TO HOLD. ✓
AFTER " 2 " 16 1/2" " 38" x 38" " ✓
Stents are in accordance with rule requirements. 1 stow in fore well has wood plug and canvas cover. ~~no plug or cover provided for remainder.~~ Efficient means of closing provided.

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

FORE WELL:		5" DIA.		14" DIA.		above 25' to underside of bond.		To FORE PEAK	
1 C.I.	AIR PIPE	2 1/4"	"	2 1/4"	"	26"	"	"	TO FORE PEAK
2 W.I.	"	2 3/4"	"	2 3/4"	"	26"	"	"	TO D.B. TANK ✓
2 W.I.	"	2 3/4"	"	2 3/4"	"	47"	"	"	" ✓
2 C.I.	"	2 3/4"	"	2 3/4"	"	25"	"	"	" ✓
1 C.I.	"	3"	"	10"	"	"	"	"	TO AFT. PEAK. ✓

Efficient means of closing provided.

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

Particulars of Scupperns and Sanitary Discharge Pipes —

	1	Pavation discharge from bridge led thru stern valve (G.M.) on ships side.	P.S. ✓
x	{	1 wash " " " " " " " " " "	" " ✓
	2	lav. " " " " " " " " " "	" " ✓
x	{	1 lav. " " " " " " " " " "	" " ✓
	1	lav. " " " " " " " " " "	" " ✓
x		These pipes are led through machinery space. Two on Port Side have bends under deck.	S.S. ✓

Particulars of Side Scuttles: Side Scuttles in sidelocks aft have larger deadlights of strong construction permanently secured. ✓
Scuttles in Bridge Store have no deadlights. ✓

Particulars of Guard Rails:—

Yorcastle	2 Bars.	3'-0" high.	Stanchions about 5'-0" apart.
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Particulars of Gangways, Lifelines, etc.:— *none provided.*

Lifelines provided for use in the fore well and on the raised quarter deck, port and starboard sides.

Particulars of Freeing Arrangements.

[illegible]

Particulars of Superstructures, Trunks, Casings, Deckhouses.

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	✓							
Raised Quarter Deck Bulkhead ...	✓ 34	✓ 34	5 x 3 = 38 L	30	Butts	none	none	4' 0"
Bridge, After Bulkhead	✓	with	usual bracket	diaphragm.				
Bridge, Forward Bulkhead	✓							
Forecastle Bulkhead	✓							
Trunk, Aft	✓							
Trunk, Forward	✓							
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	✓ 38	✓ 34	4 1/2 x 3 = 38 BR 3 x 2 1/2 = 32 BR	38 27	none	4' 6" x 8' 0"	18"	7' 0"
Exposed Machinery Casings on Super-structure Decks	✓							
Machinery Casings within Superstruc-tures not fitted with Class I Closing Appliances	✓							
Deckhouses on Flush Deck Ships ...	✓							

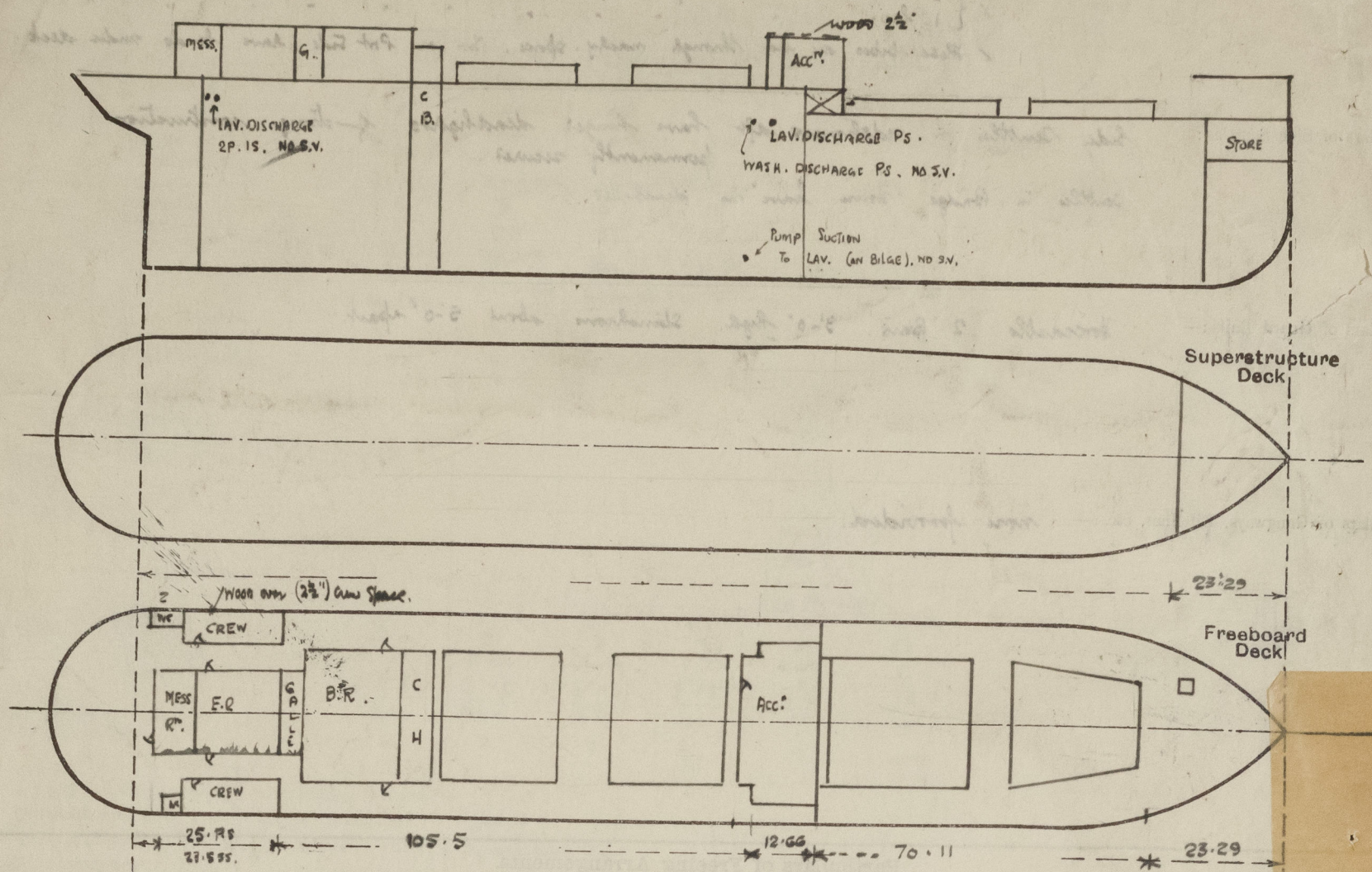
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Item	✓	✗
Poop Bulkhead	✓	
Raised Quarter Deck Bulkhead ...	✓	
Bridge, After Bulkhead	✓	
Bridge, Forward Bulkhead	✓	
Forecastle Bulkhead	✓	
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	✓	
Exposed Machinery Casings on Superstructure Decks	✓	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓	
Deckhouses on Flush Deck Ships ...	✓	

Ordinary, steel hinges down. Operated both sides. ✓

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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:—*Timber arrangements on board.*

RULE LXXXII. (no particulars can be obtained regarding subdivision of tanks from crew on board)

RULE LXXXIII. Bulwarks in ^{for} well 31' high. 7" x 3" x 38 Bull angle rail: 7 x 7/20 bull stays spaced about 6'-0" apart. 1st socket 8'-0" from Bridge Bulwarks are spaced about 10'-0" apart. 7 in N°.

RULE LXXXVIII. Bulwarks in after well 39' high. 7 x 3" x 38 Bull angle rail: 7 x 7/20 bull plate stays spaced about 6'-0" apart. 1st socket 11'-0" from Bridge and spaced about 10'-0" apart. 7 in N°.

RULE LXXXVII. Steering gear (Steam) fitted amidships. Leads protected by Hatch Bull. stay. Hand steering arrangement provided by attachment to capstan spindle comprising spur wheel and toothed quadrant.

RULE LXXXIX. no ringbolts provided for lashing cargo.

Builder's name and yard number *John Gullerton & Co. Paisley. Yard No. 274.*

Names of sister ships *Star, Rose.*

Owners *R. Hughes*

Fee £

9 : 7

Received by me

applied for 31 MAR 1932



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