

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. (For London Office only.)

25989.

4958.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having POOP, BRIDGE, FORECASTLE

Port of Survey DUBLIN.

Date of Survey 15th 16th 17th JUNE 1932.

Name of Surveyor R.B. GRIER.

Particulars of Classification +100 A1.

41 100.3 - 8.31.

Changing oil fuel 500 F.

Moulded Dimensions: Length 399.5 Breadth 52 Depth 31
 Moulded displacement at moulded draught = 85 per cent. of moulded depth 12012 tons
 Coefficient of fineness for use with Tables 768

Depth for Freeboard (D)

Moulded depth ... 31
 Stringer plate ... 5
 Sheathing 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 =
 $(31.04 - 26.63) 3 = +13.23$
 (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
 Standard Round of Beam = $\frac{B \times 12}{50} = 12.48$
 Ship's Round of Beam = 13
 Difference 52
 Restricted to
 Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{52^2}{4} \times \frac{50}{L} = 4 - .06$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	49	49	7'-11½"		49
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	112	112	7'-11½"		112
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	39	39	7'-11½"		39
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	200	200			200

Standard Height of Superstructure 75

" " R.Q.D.

Deduction for complete superstructure 41.96

Percentage covered $\frac{S}{L} = 50.06$ " " $\frac{S_1}{L} = 50.06$ " " $\frac{E}{L} = 50.06$ Percentage from Table, Line A.
(corrected for absence of forecastle (if required))Percentage from Table, Line B.
(corrected for absence of forecastle (if required)) 36

Interpolation for bridge less than 2L (if required)

Deduction = 41.96 x .3606 = 15.113

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	49.95	1	49.95	52.25	60	60.00	1	52.25	52.25
1/4 L from A.P. ...	22.42	4	88.88	23.75	2686	2686	4	95.00	95.00
1/2 L " ...	5.49	2	10.98	7.00	671	671	2	14.00	14.00
Amidships ...	-	4	-	-	-	-	4	-	-
3/4 L from F.P. ...	10.98	2	21.96	13.25	1323	1323	2	26.46	26.46
1/4 L " ...	44.24	4	176.96	50.25	5293	5293	4	201.00	201.00
F.P. ...	99.9	1	99.9	110	120	120	1	110.00	110.00
Total ...			449.57					498.75	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ 89.53 $\left(.75 - \frac{25.63}{200} \right) = -2.49$

If limited on account of midship superstructure.

Mean actual sheer aft = Excess

Mean actual sheer forward = Excess

Length of enclosed superstructure forward of amidships = 7.1L

" " aft of " = 7.1L

Deduction for Tropical Freeboard.
 Addition for Winter and Winter North Atlantic Freeboard.

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 = 6.2764

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta = 11557$

Tons per inch immersion at summer load water line

T = 41.25

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

= 7

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{768 + 68}{136}$

Depth Correction ... 13.23

Deduction for superstructures ... 15.113

Sheer correction ... 2.49

Round of Beam correction06

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

Summer Freeboard = 71.542

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

Tropical Fresh Water Line above Centre of Disc ... 13 1/4
 Fresh Water Line " " ... 7
 Tropical Line " " ... 6 1/4
 Winter Line below " " ... 6 1/4
 Winter North Atlantic Line " " ...

Tropical Fresh Water Freeboard ... 5-11 1/2
 Fresh Water " ... 4-10 1/4
 Tropical " ... 5-2 1/2
 Winter " ... 5-5 1/4
 Winter North Atlantic " ... 6-5 3/4

22 JUN 1932

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
BRIDGE.					BRIDGE.				
Description of Hatchway		No 1.	No 2	No 3	No 4	No 5.	2ND BUNNER HATCHES.		
Dimensions of Hatchway		32'-4" 26'-3"	34'-6" 26'-1 1/2"	10'-8 1/2" 18'-0"	34'-7" 26'-1"	28'-0" 26'-2"	8'-3 1/2" 3'-10 1/2"		
COAMINGS	Height above Deck	30"	30"	18"	30"	30"	18"		
	Thickness	.44	.44	.4	.44	.44	.3		
	Stiffeners	10"x3 1/2"x.45	10"x3 1/2"x.45	none	10"x3 1/2"x.5	10"x3 1/2"x.45	none		
	Brackets, Stays	3NO PALM 2" D.I.R. ✓	3NO PALM 2" D.I.R. ✓	none ✓	3NO PALM 2" D.I.R. ✓	3NO PALM 2" D.I.R. ✓	none ✓		
HATCH BEAMS	Number	6	6	none.	6	5	none		
	Spacing	4'-8"	4'-11"		4'-11 1/2"	4'-8"			
	Scantling and Sketch	6"x3 1/2"x.46 D.A. T.B. ✓ 38" → 24" ✓ ↓ L - 1/2"	6"x3 1/2"x.42. ↓ L - 1/2"		6"x3 1/2"x.45 38" → 24" ✓ ↓ L - 1/2"	6"x3 1/2"x.45 4' → 24" ✓ ↓ L - 1/2"			
	Bearing Surface	3 1/2"	3 1/2"		3 1/2"	3 1/2"			
FORE AND AFTERS	Number	none	none.	3.	none	none	none.		
	Spacing			4'-6 1/2"					
	Unsupported Lengths			10'-1 1/2"					
	Scantling* and Sketch		D.A. T.B. 3x3x.36 36" → 10" ↓ L - 1/2"						
Bearing Surface			3 1/2 ✓						
HATCH COVERS	Material	W. PINE	W. PINE	W. PINE	W. PINE	W. PINE	W. PINE.	note :- There are some open spar type covers on these hatches, i.e. (grating type) ✓	
	Thickness	2 3/4"	2 3/4"	2 1/2"	2 3/4"	2 3/4"	2 1/2"		
	How fitted	F. & A.	F. & A.	ATHWART.	F. & A.	F. & A.	ATHWART.		
	Bearing Surface	3 1/2" ✓	3 1/2" ✓	3" ✓	3 1/2" ✓	3 1/2"	3"		
Spacing of Cleats		24"	24"	23"	24"	24"	22"		
Number of Tarpaulins		2 ✓	2. ✓	2. ✓	2. ✓	2. ✓	2.		

*Are wood fore and afters steel shod at all bearing surfaces? -

Are battens and wedges efficient and in good condition? *yes.*

Are tarpaulins in good condition and in accordance with rule requirements? *yes.*

Are lashings provided in accordance with rule requirements? *yes.*

Particulars of fiddley, funnel and ventilator coamings:— Stakehold gratings covered by strong steel hinged covers. Fiddley and funnel ventilators in efficient condition. Engine skylight steel strongly constructed.

Particulars of Flush Bunker Scuttles:— *None.*

Particulars of Companionways:— Two steel companions 4'-1" x 3' x 5'-1½" high on poop deck leading to enclosed poop, doors of ~~wood~~^{steel} sill 14". ~~These doors are~~ ✓
~~not in good condition.~~

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—						
one	Vent	on	forecastle deck	8" dia coaming	2' x .3	led to fore peak.
				18" "	3' x .35	No. 1 HOLD.
Three	"	"	FREEBOARD	" FORD, 18" "	3' x .32	" " 2 "
Two	"	"	BRIDGE	" 18" "	2' 6" x .3	" " 3 "
One	"	"	"	" 18" "	2' 0" x .35	" " 4 "
Two	"	"	FREEBOARD	" AFT 18" "	3' x .35	" " 4 x 5 "
One	"	"	POOP	" 18" "	2' 6" x .35	" " 5 "

all Ventilators constructed in accordance with Rules and coamings closed with wood plugs and canvas covers.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—						
one	N. S.	air pipe on fore-castle deck	2' high	3½" dia.	from fore peak	No 1 O.S.T.
one	"	" under "	2' "	3" "	" "	No 2 "
Two	"	" on freeboard	" F. 2' "	2½" "	" "	No 3 "
"	"	" Bridge	" 2' "	2½" "	" "	No 4 "
"	"	" " "	" 2' "	2½" "	" "	No 5 "
"	"	" " freeboard	" 2' 1" "	2½" "	" "	No 6 "
"	"	" " " "	" 19" "	2½" "	" "	No 7 "
"	"	" " " "	" 10" "	2½" "	" "	No 8 "
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Particulars of Gangway Cargo and Coaling Ports:—

none. ✓

S/S "YOSERIC"

W479-0326(2/3)
Attach to Dublin Rpt. 4958.

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS MIDSHIP BRIDGE SPACE									
Description of Hatchway	...	...	Four		Four			X Bka. Hatch	
Dimensions of Hatchway	...	...	2'6" x 1'11"		8'3" x 3'11"			18'0" x 10'11"	
COAMINGS	Height above Deck	L	9" x 3" x 5/16"		12"			L 9" x 3" x 5/16"	
	Thickness	{ Sides	—		1/4"			—	
		{ Ends	—		1/4"			—	
	Stiffeners	...	—		—			—	
	Brackets, Stays	...	—		—			—	
HATCH BEAMS	Number	...						3	
	Spacing	...						4'6"	
	Scantling and Sketch	...	None		None			See plate 12" x 7/16"	
								4 Bar 3" x 3" x 5/16"	
	Bearing Surface	...						3"	
FORE AND AFTERS	Number	...							
	Spacing	...							
	Unsupported Lengths	...							
	Scantling* and Sketch	...	None		None				
	Bearing Surface	...							
HATCH COVERS	Material	...	W. P.		W. P.			W. P.	
	Thickness	...	2 1/2"		2 1/2"			2 1/2"	
	How fitted	...	other		other			F & A	
	Bearing Surface	...	3"		3 1/2"			3"	
Spacing of Cleats	...	...	24"		24"			24"	
Number of Tarpaulins	...	...	2		2			2	

*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?



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SURVEYS FOR FREEBOARD.

 Index. No. _____
 (For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey _____	
having _____					Date of Survey _____	
(Type of Superstructures.)					Name of Surveyor _____	
Ship's Name _____	Nationality and Port of Registry _____	Official Number _____	Gross Tonnage _____	Date of Build _____	Particulars of Classification _____	
Moulded Dimensions: Length _____ Breadth _____ Depth _____						
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons						
Coefficient of fineness for use with Tables _____						
Depth for Freeboard (D)			Depth correction		Round of Beam correction	
Moulded depth			(a) Where D is greater than Table depth (D - Table depth) R = _____		Moulded Breadth (B) _____	
Stringer plate			(b) Where D is less than Table depth (if allowed) (Table depth - D) R = _____		Standard Round of Beam = $\frac{B \times 12}{50} =$ _____	
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ _____			If restricted by superstructures _____		Ship's Round of Beam _____	
Depth for Freeboard (D) = _____					Difference _____	
					Restricted to _____	
					Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$ _____	

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					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					

Standard Height of Superstructure _____

" " R.Q.D. _____

Deduction for complete superstructure _____

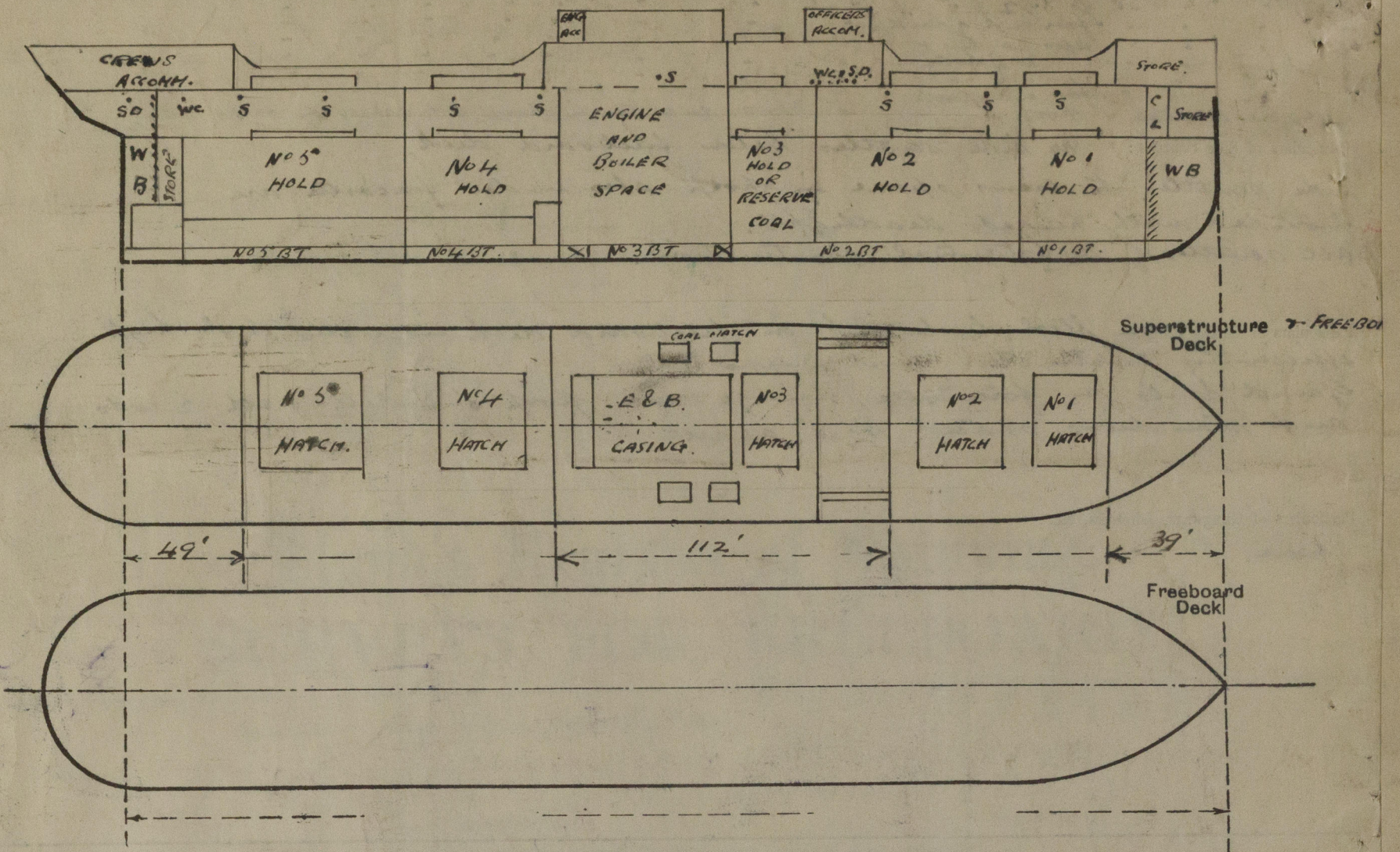
Percentage covered $\frac{S}{L} =$ _____

" " $\frac{S_1}{L} =$ _____

" " $\frac{E}{L} =$ _____

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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:—

Vessel examined afloat whilst discharging cargo. Survey confined to an examination of the means for closing the openings in the deck and sides of the ship, decks, casings, hatchways, ventilators and their coverings also equipment generally found in efficient condition.

Builder's name and yard number SIR J. LAING & SONS LTD. 671

Names of sister ships

Owners BANK LINE LTD.

Fee £ 13 : 12 : 0

Received by me



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