

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index No. 24689
(For London Office only.)

Forecastle? yes
Bulkhead at the fore end? yes
Bulk'd. with Bulwarks? yes
Bulk'd. at after end? yes

Computation of Freeboard for Steamer, Sailing Ship, Tanker
a Poop, a bridge and a fore-castle

(Type of Superstructures.)

Ship's Name DEBURN Nationality and Port of Registry DEBURN Official Number 1916 Gross Tonnage 1916 Date of Build 1916

Port of Survey 18/5/31

Date of Survey 18/5/31

Name of Surveyor 18/5/31

Particulars of Classification

Dimensions: Length 305.0 Breadth 43.75 Depth 27.25
Displacement at moulded draught = 85 per cent. of moulded depth Not yet calc. tons
of fitness for use with Tables

Depth correction
(a) Where D is greater than Table depth
(D - Table depth) R = (27.29 - 20.33) 2.346 + 16.33
(b) Where D is less than Table depth (if allowed)
(Table depth - D) R = 6.96
If restricted by superstructures

Round of Beam correction
Moulded Breadth (B) 43.75
Standard Round of Beam = $\frac{B \times 12}{50} = 10.5$
Ship's Round of Beam = 10.75
Difference = 1.25
Restricted to
Correction = $\frac{\text{Diff}^2}{4} \times (1 - \frac{S_1}{L}) = \frac{1.56}{4} \times .56 = .03$

DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
19.00	19.00	7.0		19.00
82.0	82.0	7.0		82.0
3.0	2.25			2.25
30.5	30.50	7.0		30.50
1.75	.87			.87
136.25	134.12			134.12

Standard Height of Superstructure 6.55
" " R.Q.D.
Deduction for complete superstructure 35.67
Percentage covered $\frac{S}{L} = 44.68$
" " $\frac{S_1}{L} = 43.97$
" " $\frac{E}{L} = 43.97$
Percentage from Table, Line A.
(corrected for absence of forecastle (if required))
Percentage from Table, Line B. 30.87
(corrected for absence of forecastle (if required))
Interpolation for bridge less than 2L (if required)
Deduction = 35.67 x .3087 = 11.01

SHEER CORRECTION.

S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
1	40.5	49.37	49.37	1	49.37
4	72.08	21.13	21.13	4	84.52
2	89.0	5.28	5.28	2	10.56
4	-	-	-	4	-
2	17.80	10.42	10.42	2	20.82
4	144.16	41.67	41.67	4	166.68
1	81.02	96.0	96.00	1	96.00
	364.44				427.95

Mean actual sheer aft = Excess
Mean standard sheer aft = Excess
Mean actual sheer forward = Excess
Mean standard sheer forward = Excess
Length of enclosed superstructure forward of amidships = 1.18
" " aft of " = 1.51

$$\text{Difference between sums of products} = \frac{63.51}{18} \left(\frac{.75 - S}{2L} \right) = \frac{63.51}{18} \left(\frac{.75 - .223}{.524} \right) = -1.86$$

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Local Freeboard.
and Winter North
Ft. 44.65

rd Deck = 44.65
= 44.65
Height (d) = 44.65
board and addition for
ches = 44.65

Deduction for Fresh Water.
Displacement in salt water at summer load water line
 $\Delta =$
Tons per inch immersion at summer load water line
T = 40
Deduction = $\frac{\Delta}{40T}$ inches
= 40

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

	+	-
Depth Correction	16.33	
Deduction for superstructures		11.01
Sheer correction		1.86
Round of Beam correction		.03
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	16.33	12.90
Summer Freeboard =		3.43

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

Tropical Fresh Water Line above Centre of Disc	...	Tropical Fresh Water Freeboard	...
Fresh Water Line	"	Fresh Water	"
Tropical Line	"	Tropical	"
Winter Line	"	Winter	"
Winter North Atlantic Line	"	Winter North Atlantic	"

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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

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								
HATCH COVERS	Material								
	Thickness								
	How fitted								
	Bearing Surface								
Spacing of Cleats									
Number of Tarpaulins									

*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:—

Particulars of Flush Bunker Scuttles:—

Particulars of Companionways:—

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

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

Particulars of Gangway Cargo and Coaling Ports:—

Particulars of Scuppers and Sanitary Discharge Pipes —

Particulars of Side Scuttles:

Particulars of Guard Rails:—

Particulars of Gangways, Lifelines, etc.:—

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						
Forward Well						

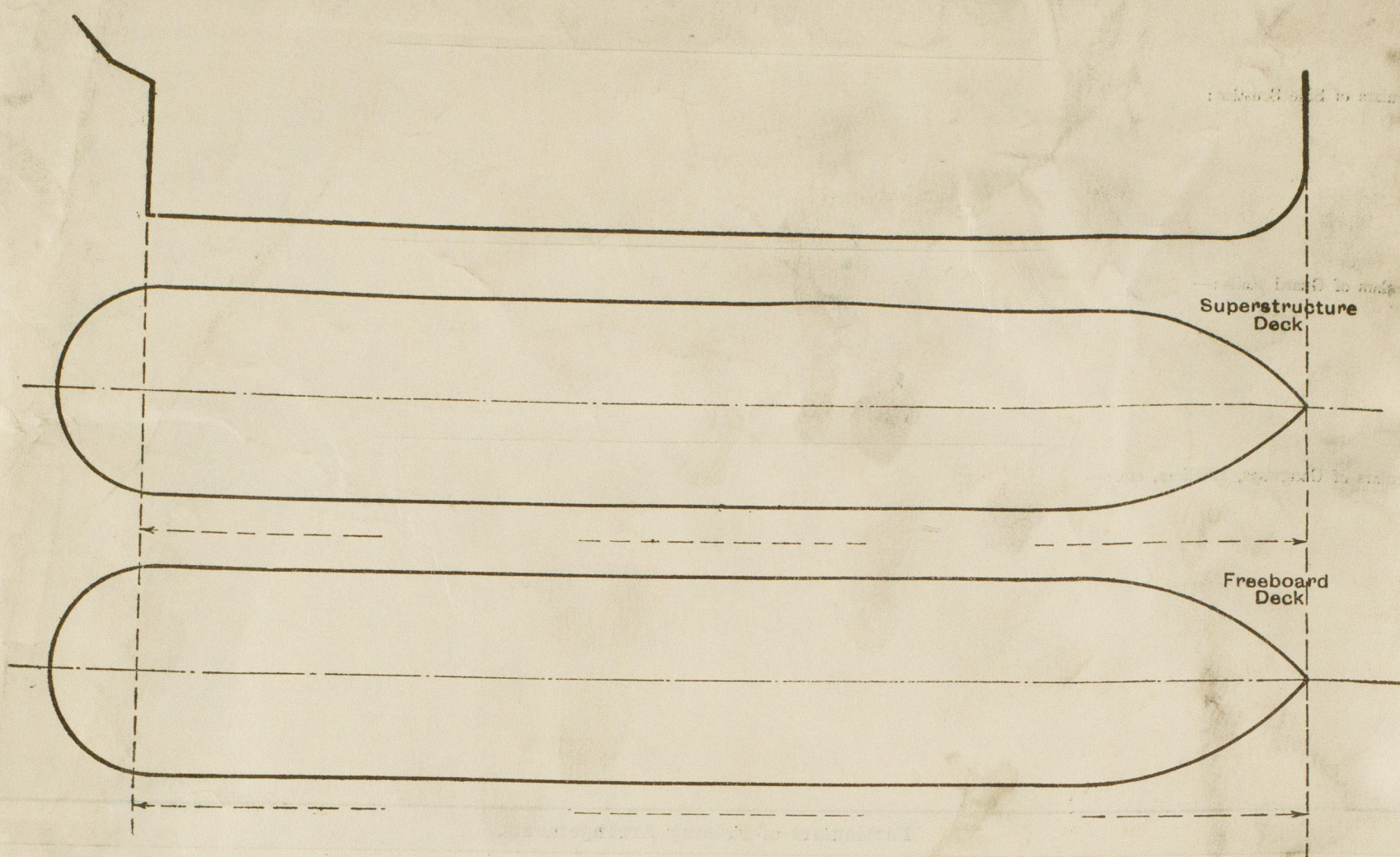
State position of each freeing port (F. and A. position and height above deck edge) { After Well:—
 { Forward Well:—
 State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:—
 Additional area where sheer is less than standard.

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								
Raised Quarter Deck Bulkhead								
Bridge, After Bulkhead								
Bridge, Forward Bulkhead								
Forecastle Bulkhead								
Trunk, Aft								
Trunk, Forward								
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								

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

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	

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:—

Builder's name and yard number

Names of sister ships

Owners

Fee £ : :

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