

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Index No. **24569**  
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having Forecastle, Bridge and Raised Quarter Deck

Port of Survey Ipwich

Date of Survey 3-1-33

Name of Surveyor Ayrill

Ship's Name CORNISHBROOK (Type of Superstructures) TROLL Open-tops

Nationality and Port of Registry British Ipwich

Official Number 135928

Gross Tonnage 310

Date of Build 1916-3

Moulded Dimensions: Length 135.0 Breadth 23.0 Depth 10.58

Moulded displacement at moulded draught = 85 per cent. of moulded depth 554 tons

Coefficient of fineness for use with Tables .694

Particulars of Classification +100 A.I.  
S.S. Reg. No 3-8.28

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... .. 10.58	(a) Where D is greater than Table depth (D - Table depth) R = (10.61 - 9.00) 1.038 = + 1.67	Moulded Breadth (B) 23
Stringer plate ... .. .03	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 5.52$
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 6
Depth for Freeboard (D) = 10.61		Difference 1.48
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{4.8}{4} \times 4.176 = -0.05$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed ... ..						Standard Height of Superstructure 6.00
" overhang ... ..						" " R.Q.D. 3.233
R.Q.D. enclosed ... ..	47.25	47.25	3.5		47.25	Deduction for complete superstructure 19.50
" overhang ... ..						Percentage covered $\frac{S}{L} = 59.26\%$
Bridge enclosed ... ..	10.50	10.50	7.0		10.50	" " $\frac{S_1}{L} = 58.24\%$
" overhang aft ... ..						" " $\frac{E}{L} = 58.24\%$
" overhang forward ... ..	.75	.75			.37	Percentage from Table, Line A. 43.54
Forecastle enclosed ... ..	19.50	19.50	6.75		19.50	(corrected for absence of forecastle (if required))
" overhang ... ..	2.00	2.00	+ 3' Wood		1.00	Percentage from Table, Line B.
Trunk aft ... ..						(corrected for absence of forecastle (if required))
" forward ... ..						Interpolation for bridge less than .2L (if required)
Tonnage opening aft ... ..						Deduction = 19.50 x 43.54 = - 8.49
" " forward ... ..						
Total ... ..	80.00	78.62			78.62	

## SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate plotted	Effective Ordinate	S	Product
A.P. ... ..	23.50	1	23.50	30	23.50	1	23.50
1/4 L from A.P. ... ..	10.46	4	41.84	16.70	10.46	4	41.84
1/2 L " ... ..	2.59	2	5.18	5.00	2.59	2	5.18
Amidships ... ..		4				4	
3/4 L from F.P. ... ..	5.17	2	10.34	5.20	5.20	2	10.40
1/4 L " ... ..	20.91	4	83.64	20.60	20.60	4	82.40
F.P. ... ..	47.00	1	47.00	45 1/2	45.50	1	45.50
Total ... ..			211.50				208.82

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{2.68}{18} \left( .75 - .2963 \right) = + .07$

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.

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

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction ... .. 1.67

Deduction for superstructures ... .. 8.49

Sheer correction ... .. .07

Round of Beam correction ... .. .05

Correction for Thickness of Deck amidships ... .. -

Other corrections, scantlings, etc. ... .. -

Summer Freeboard = 6.94

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: - 0.7

Tropical Fresh Water Line above Centre of Disc ... ..

Fresh Water Line " " ... ..

Tropical Line " " ... ..

Winter Line below " " ... ..

Winter North Atlantic Line " " ... ..

Tropical Fresh Water Freeboard ... ..

Fresh Water " " ... ..

Tropical " " ... ..

Winter " " ... ..

Winter North Atlantic " " ... ..

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# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway		Main Hatch.		Fore Hatch.					
Dimensions of Hatchway		22' 4" x 14' 0"		10' 0" x 14' 0"					
COAMINGS	Height above Deck	36"		36"					
	Thickness	48"		48"					
	Sides	40"		40"					
	Ends	40"		40"					
	Stiffeners	6 1/2" B.A.		6 1/2" B.A.					
HATCH BEAMS	Brackets, Stays	✓		✓					
	Number	2		1					
	Spacing	7'-6"		8'-6"					
	Scantling and Sketch	Anglo. 3 x 3 1/2 x 40		Anglo. 3 x 3 1/2 x 40					
	Bearing Surface	3"		3"					
FORE AND AFTERS	Number	1 Centre		1 Centre					
	Spacing	2 sides		2 sides					
	Unsupported Lengths	3'-6"		3'-6"					
	Scantling* and Sketch	7'-6"		7'-6"					
	Bearing Surface	3"		3"					
HATCH COVERS	Material	R.P.		R.P.					
	Thickness	2 1/2"		2 1/2"					
	How fitted	R.P.S.		R.P.S.					
	Bearing Surface	2"		2"					
	Spacing of Cleats	25"		25"					
Number of Tarpaulins		3		3					

\*Are wood fore and afters steel shod at all bearing surfaces? *Yes.*  
 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 fiddle, funnel and ventilator coamings:—

*No fiddle gratings or openings.*  
*Funnel casing & fiddle ventilator strongly constructed in good condition except Bit.*  
*B.R. Skylight constructed of steel with steel hinged flaps. (ventilator which requires repairs.)*

## Particulars of Flush Bunker Scuttles:—

*none.*

## Particulars of Companionways:—

*One leading to Saloon in Bridge House. Door opening, 22" x 5'-6", sill 9"*  
*1 1/4" wood hinged door.*

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

*Forecastle Deck.*  
*1 - 6" - 18" high to Forecastle.*  
*2 - 4" - 3" high fitted with screwed cap.*  
*Well Deck.*  
*1 - 9" - 36" high to Hold.*  
*Bridge Deck.*  
*1 - 9" - 24" high to Hold.*  
*1 - 6" - 18" high to Quarters.*  
*\* means of closing provided.*

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

*Forecastle.*  
*1 - 2 1/2" - 4" high to fore peak.*  
*R.Q.D. 2 1/2" - 36" high to after peak.*  
*\* means of closing provided.*

## Particulars of Gangway Cargo and Coaling Ports:—

*none.*

## Particulars of Scuppers and Sanitary Discharge Pipes:—

*All scuppers discharge above the 1st. Deck.*  
*All sanitary discharge pipes are fitted with storm valves.*

## Particulars of Side Scuttles:—

*Side scuttles in Forecastle fitted with hinged deadlights.*

## Particulars of Guard Rails:—

*Forecastle. 2 rails 39" high with stanchions 4'-3" apart.*  
*Fore well. Bulwarks 3'-7" high.*  
*R.Q.D. 3'-0" "*

## Particulars of Gangways, Lifelines, etc.:—

*No arrangements provided.*  
*Quintette provision made for rigging lifelines which are available for use in any part of the ship used by the crew in the regular working of the ship.*

## 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 R.Q.D.	47.25'	3'-0"	4' x 9" 18" x 12" 3' x 9"	2 2 1	3 1/4	11.2 1/2
Forward Well	57.75'	3'-6"	24" x 18"	3	9 1/2	12.3 1/2

State position of each freeing port (F. and A. position and height above deck edge) After Well:—From R.Q.D. Bulkhead, 9', 33', 54', 13 1/2' above deck. 12"  
 Forward Well:—From Bridge Bulkhead, 21', 35', 49', " " " 15"  
 State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:—*Hinged shutters.*  
 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	✓	36"	wood	lining in way.		none	✓	Bridge 7'-0" R.Q.D. 8'-5" 7'-0"
Bridge, After Bulkhead	✓							
Bridge, Forward Bulkhead	✓	36"	4 x 5 x 40	24"	Brackets top and bolt	none		7'-0"
Forecastle Bulkhead	✓	25"	4 x 3 x 40	27"	none	20" x 4'-0"	18"	6'-9"
Trunk, Aft	✓							
Trunk, Forward	✓							
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	✓	30"	3 x 2 1/2 x 40	27"	Brackets at top. Bolt to beam.	20" x 4'-0"	18"	7'-0"
Exposed Machinery Casings on Superstructure Decks	✓							
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓							
Deckhouses on Flush Deck Ships	✓							

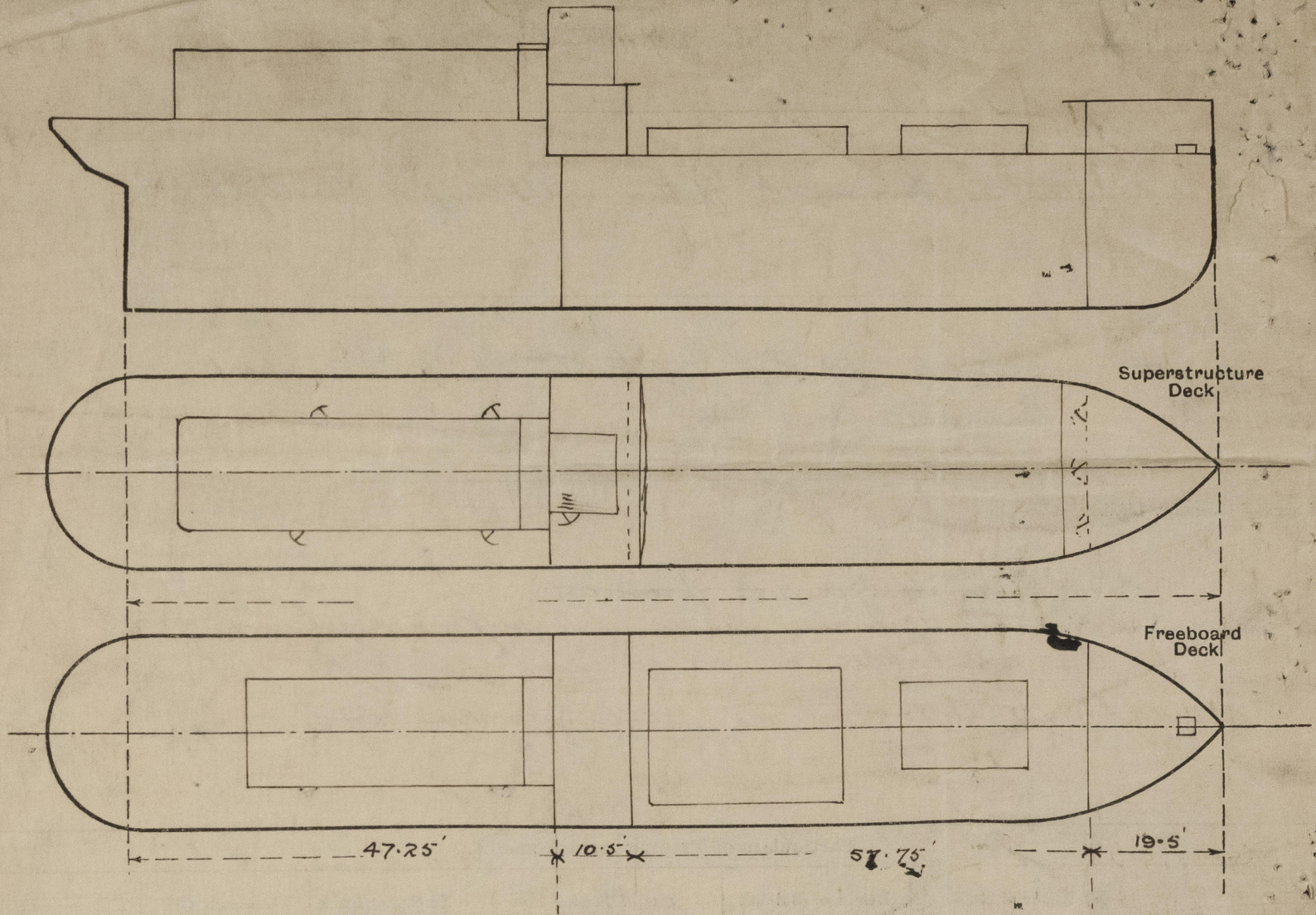
## Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead	✓
Raised Quarter Deck Bulkhead	no openings
Bridge, After Bulkhead	no openings
Bridge, Forward Bulkhead	no openings
Forecastle Bulkhead	Steel hinged doors, operated both sides.
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	Steel hinged doors, Locks defective & one door hinge broken.
Exposed Machinery Casings on Superstructure Decks	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓
Deckhouses on Flush Deck Ships	✓



Oxbridge

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:—



Survey held afloat. OMT

State any special features in the construction of the ship:—

Small Hatches.

Forecastle. 3'-0" x 2'-0", coaming 13 high. wood hatches 2 1/2". No chato or fastening arrangements.

Bunker Hatch on Casing (Liddly).

3'-4" x 14'-4", coaming 3" high. 2 1/2" wood hatches, bearing 2 1/2".

one tarpaulin, no chato and no fastening arrangements. provided.

~~Several side ports & afters require to be renewed & Hatch covers require to be placed in good condition &~~

Builder's name and yard number Messrs Crabtree & Co. Ltd. No 158.

Names of sister ships

Owners R. & W. Paul. Ltd. Ipswich.

Fee £ 5 : 2 : 0 Received by me

(5 JAN 1933)

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