



Computation of Freeboard for Steamer, Sailing Ship, Tanker

Port of Survey *London*

Name of Surveyor Galsreen  
Galsreen

Particulars of Classification *100 A1 Lloyds*  
*with Inboard.*

Nationality and Port of  
Registry  
*British  
London*

Gross  
Tonnage

Date of Build

Moulded Dimensions : Length 630.0 Breadth 80.0 Depth 37.6  
Moulded displacement of moulded draught = 5 per cent. of moulded depth.....tons

**Depth correction.**

(a) Where D is greater than Table depth  
(D — Table depth) R =

(b) Where D is less than Table depth (if allowed)  
(Table depth — D) R =

**Round of Beam correction.**

Moulded Breadth (B)

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

Ship's Round of Beam =

Difference

Restricted to

Correction =  $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right) =$

Poop enclosed	...	...
" overhang	...	...
R.Q.D. enclosed	...	...
" overhang	...	...
Bridge enclosed	...	...
" overhang aft	...	...
" overhang forward	...	...
F'cle enclosed	...	...
" overhang	...	...
Trunk aft	...	...
" forward	...	...
Tonnage opening aft	...	...
" " forward	...	...
Total	...	...

Standard Height of superstructure.....

” ” ” R.Q.D. ....

Deduction for complete superstructure.....

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

” ”  $\frac{S}{L} =$

” ”  $\frac{E}{L} =$

Percentage from Table, Line A.  
(corrected for absence of forecastle (if required))

Percentage from Table, Line B.  
(corrected for absence of forecastle (if required))

Interpolation for bridge less than  $\cdot 2L$  (if required)

Deduction =

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ... ..		1				1	
$\frac{1}{2}$ L from A.P. ...		4				4	
$\frac{3}{8}$ L " " ...		2				2	
Amidships ...		4				4	
$\frac{3}{8}$ L from F.P. ...		2				2	
$\frac{1}{2}$ L " " ...		4				4	
F.P. ... ..		1				1	
Total ...							

If limited on account of midship superstructure.

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

**Deduction for Fresh Water.**  
Displacement in salt water at  
summer load water line

$\Delta =$   
Tons per inch immersion at  
summer load water line  
 $T =$

TABULAR FREEBOARD corrected for Flush Deck (if required) \_\_\_\_\_

### Correction for coefficient

Summer Freeboard =

**SUMMER 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	below	"	Winter
Winter North Atlantic Line	"	"	Winter North Atlantic



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# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

Description of Hatchway		HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS							
		1	2	3	4	5	6		
Dimensions of Hatchway		on 1st deck	on 2nd deck	on 3rd deck	on 4th deck	on 5th deck	on 6th deck		
COAMINGS	Height above Deck	30"	30"	30"	30"	30"	30"		
	Thickness	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"		
	Stiffeners	7-3 x 4-0 BR	7-3 x 4-0 BR	7-3 x 4-0 BR	7-3 x 4-0 BR	7-3 x 4-0 BR	7-3 x 4-0 BR		
	Brackets, Stays	6-3 x 4-0	6-3 x 4-0	6-3 x 4-0	6-3 x 4-0	6-3 x 4-0	6-3 x 4-0		
	Stiffeners	7-3 x 4-0 BR	7-3 x 4-0 BR	7-3 x 4-0 BR	7-3 x 4-0 BR	7-3 x 4-0 BR	7-3 x 4-0 BR		
HATCH BEAMS	Number	Special steel hinged	Special steel hinged	Special steel hinged	Special steel hinged	Special steel hinged	Special steel hinged		
	Spacing	6-10 1/2"	6-10 1/2"	6-10 1/2"	6-10 1/2"	6-10 1/2"	6-10 1/2"		
	Scantling and Sketch	Special steel hinged	Special steel hinged	Special steel hinged	Special steel hinged	Special steel hinged	Special steel hinged		
	Bearing Surface	3	3	3	3	3	3		
	Number	4 channels 12 x 5 x 5 x 1/2"	4 channels 12 x 5 x 5 x 1/2"	4 channels 12 x 5 x 5 x 1/2"	4 channels 12 x 5 x 5 x 1/2"	4 channels 12 x 5 x 5 x 1/2"	4 channels 12 x 5 x 5 x 1/2"		
FORE AND AFTERS	Spacing	6-10 1/2"	6-10 1/2"	6-10 1/2"	6-10 1/2"	6-10 1/2"	6-10 1/2"		
	Unsuppported Lengths	Unsuppported (3-5 1/2')	Unsuppported (3-5 1/2')	Unsuppported (3-5 1/2')	Unsuppported (3-5 1/2')	Unsuppported (3-5 1/2')	Unsuppported (3-5 1/2')		
	Scantling and Sketch	Special steel hinged	Special steel hinged	Special steel hinged	Special steel hinged	Special steel hinged	Special steel hinged		
	Bearing Surface	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"		
	Number	4 channels 12 x 5 x 5 x 1/2"	4 channels 12 x 5 x 5 x 1/2"	4 channels 12 x 5 x 5 x 1/2"	4 channels 12 x 5 x 5 x 1/2"	4 channels 12 x 5 x 5 x 1/2"	4 channels 12 x 5 x 5 x 1/2"		
HATCH COVERS	Material	Steel	Steel	Steel	Steel	Steel	Steel		
	Thickness	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"		
	How Fitted	See above	See above	See above	See above	See above	See above		
	Bearing Surface	3	3	3	3	3	3		
	Spacing of Cleats	6 channels each end	6 channels each end	6 channels each end	6 channels each end	6 channels each end	6 channels each end		
Number of Tarpaulins		5	5	5	5	5	5		
*Are wood fore and afters steel shod at all bearing surfaces?		Yes	Yes	Yes	Yes	Yes	Yes		
Are batten and wedges efficient and in good condition?		Yes	Yes	Yes	Yes	Yes	Yes		
Are tarpaulins in good condition and in accordance with rule requirements?		Yes	Yes	Yes	Yes	Yes	Yes		
Are lashings provided in accordance with rule requirements?		Yes	Yes	Yes	Yes	Yes	Yes		

Particulars of fiddle, funnel and ventilator coamings:— *no exposed fiddle openings except on Boat decks.*

Particulars of Flush Bunker Scuttles:—

*none*

Particulars of Companionways:—

*✓*

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

*on Freeboard deck:— aft under protection of shade (1st bridge + poop) and protected by bulwarks 4-0 high 8 at 16 1/2 18" dia. Coamings 2-6 high x 7/20 thick*  
*on upper forecastle deck:— 12 x 4 1/2 coils 6 coils 3-0 x 7/20*  
*on poop deck:— aft 12-4 1/2 coils 6 coils 3-0 x 7/20*  
*In all cases the deck fastenings are considered satisfactory.*

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

*one 3 1/2" air pipe - 2-6 high on Freeboard deck - aft all C.B.B. air pipes led through ship's side with heads - no valves - (except oil tanks where air pipes are led up funnel) all as approved for P.C.*

Particulars of Gangway Cargo and Coaling Ports:—

*no coaling ports.*

*\* Gangway doors in each side of bridge 6S, 5P secured w.t. and all one but filling door " " in upper 2nd deck as approved for P.C.*

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Particulars of Scuppers and Sanitary Discharge pipes:—

*all as approved for P.C.*

Particulars of Side Scuttles:—

*all as approved for P.C.*

Particulars of Guard Rails:—

*Hand rails on deck houses*  
*1st rails 3-9 all others as required for passenger decks.*

Particulars of Gangways, Lifelines, etc.:—

*Crews access below weather decks*

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	81.5	4.0	2-0' x 1.5'	3	9	16.3
Forward Well	2.75	4.0	2.75 x 1.33	4	14.64	
State position of each freeing port ... (After Well:— 14.3, 41.6 + 68.5 from Bridge and 1/2 after edge - sills 9"						
(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:—						
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	30	30	30	30	✓	6' 8" wide	18"	18"
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	none	none	none	none	none	none	none	none
Exposed Machinery Casings on Superstructure Decks	none	none	none	none	none	none	none	none
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	2" stiles 1 1/2" panels manipulated both sides
Raised Quarter Deck Bulkhead	2" stiles 1 1/2" panels manipulated both sides
Bridge, After Bulkhead	2" stiles 1 1/2" panels manipulated both sides
Bridge, Forward Bulkhead	2" stiles 1 1/2" panels manipulated both sides
Forecastle Bulkhead	2" stiles 1 1/2" panels manipulated both sides
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	2" stiles 1 1/2" panels manipulated both sides
Exposed Machinery Casings on Superstructure Decks	2" stiles 1 1/2" panels manipulated both sides
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	2" stiles 1 1/2" panels manipulated both sides
Deckhouses on Flush Deck Ships	2" stiles 1 1/2" panels manipulated both sides



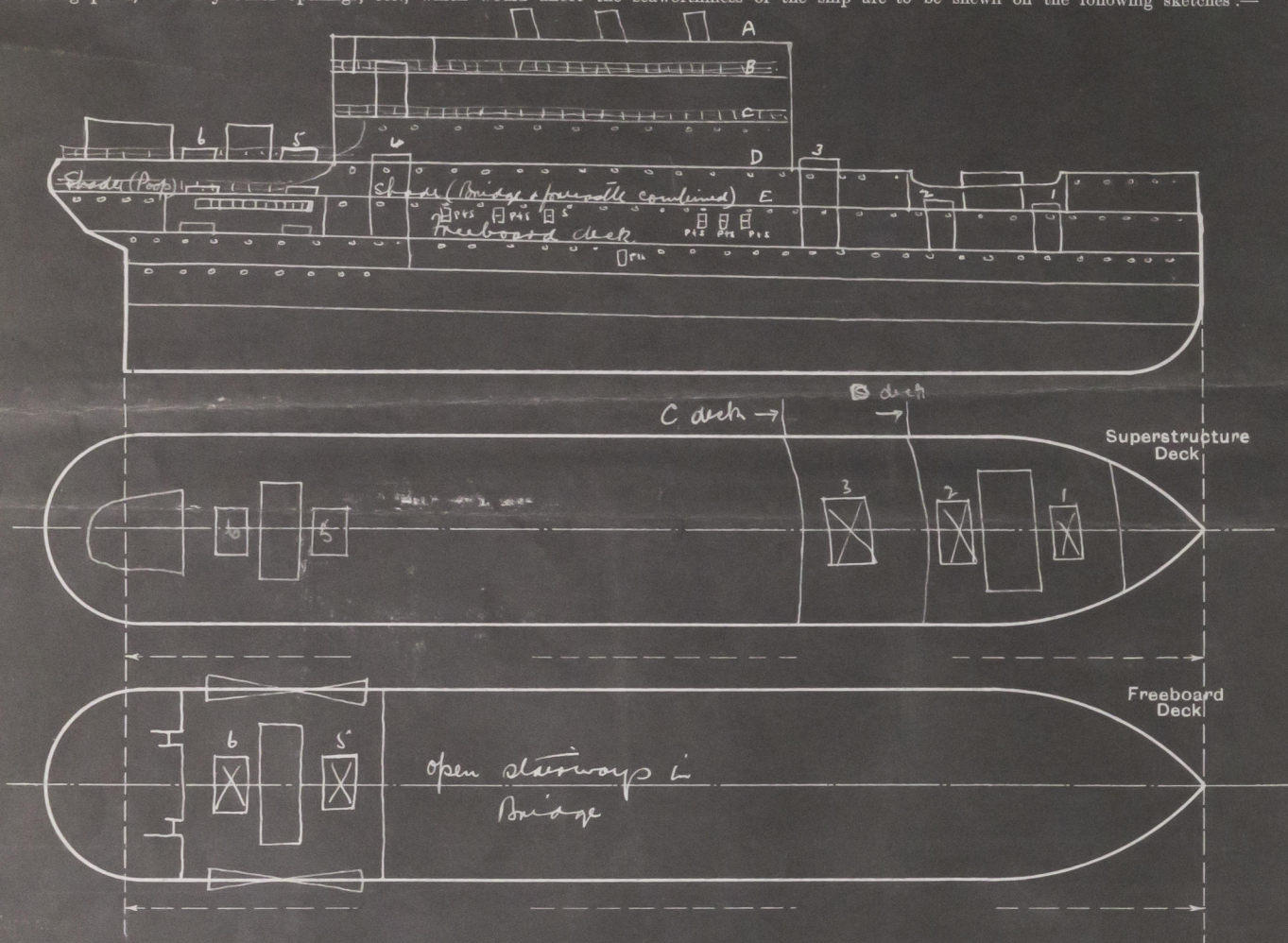
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Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:—



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

This is a new vessel built to the Board's requirements for a passenger steamship - The Bulkheads at the ends of sections and the hatchways to the freeboard aft are protected by a complete deck over them and the bulworks are 40 high with rectangular slots in the side plate between the top of bulwork and the shade deck

1/1946. Survey - Particulars as previously reported and in good condition 16/1/46 S. Robinson.  
 2/1945. Survey - Particulars as previously reported. 10. WACK. 3/45. J. H. H. H.  
 3/1944. Survey. Particulars already reported herein unchanged. S. Green. 3/44.  
 2/1943 Survey - see report - all details as previously reported herein. S. Green 30/4/43

Builder's name and yard number. Nickess Armstrong 664  
 Names of sister ships Strathnave  
 Owners P.T.O.S. Nav. Co. Ltd.

Annual Survey - 31/10/33 - Satisfactory S. Green 1/11/33  
 annual S.L. Survey carried out concurrently with survey for P.C. on the 27.9.34  
 Particulars unchanged and fittings in good order S. Green 2.10.34

July - October 1935 Survey  
 all items remain as reported hereon and are in satisfactory condition S. Green 29/10/35

June 1936  
 Annual Loadline Survey All items as hereon in Satisfactory Condition S. Green 9.6.36

March 1941. Loadline survey. No alterations affecting computation. Conditions of assignment satisfactorily maintained. S. Green 15/3/41

Feb. 1942. Particulars as previously reported. S. Green 9/2/42