

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index No. **8113**
(For London Office only.)

Computation of Freeboard for ~~Steam~~ Sailing Ship, ~~Fore~~ **Forecastle and Monkey Bop.**

having **Forecastle and Monkey Bop.** Port of Survey **London**

(Type of Superstructures.)

Ship's Name **ALASTOR.** Nationality and Port of Registry **Finnish Hango** Official Number **-** Gross Tonnage **860** Date of Build **1875-10**

Moulded Dimensions: Length **187'** Breadth **31.4'** Depth **18-6, 19.58'**

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

Coefficient of fineness for use with Tables **.419 (assumed)**

Date of Survey **18-11-32** **ge.**

Name of Surveyor **Thomas E. Snowden.**

Particulars of Classification **+100 A-1.**

S.S. Reg. 4th No. 3-528.

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth ...	19.58	(a) Where D is greater than Table depth (D - Table depth) R = (19.84 - 15.58) 1.748 = + 4.45		Moulded Breadth (B)	31.4
Stringer plate 56 (iron)05	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 4.26		Standard Round of Beam = $\frac{B \times 12}{50}$ =	4.54
Sheathing on exposed deck 3 1/2"	.21			Ship's Round of Beam =	4.00
T $\left(\frac{L-S}{L}\right)$ = .25 x .8262				Difference	1.46
Depth for Freeboard (D) =	19.84	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}^a}{4} \times \left(1 - \frac{S_1}{L}\right)$ =	1.46 x .849 = - .31

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	6'-6"	6.50	3'-9"	3.45/6.0	4.06	Standard Height of Superstructure 6.0'
" overhang ...						" " R.Q.D. 3.58'
R.Q.D. enclosed ...						Deduction for complete superstructure 13.40
" overhang ...						Percentage covered $\frac{S}{L} =$ 14.38
Bridge enclosed ...						" " $\frac{S_1}{L} =$ 15.10
" overhang aft ...						" " $\frac{E}{L} =$ 11.85
" overhang forward	18.4		5'-0"	5.0/6.0	15.04	Percentage from Table, Line A. 8.11
F'cle enclosed open	20'	16.08				(corrected for absence of forecastle (if required))
" overhang ...	4.3	3.65				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 = 13.40 x .0811 = - 1.11
" " forward						
Total ...	32.50	28.23			22.14	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	28.40	1		28.40	23	23.00	1		23.00	Mean actual sheer aft = Deficient
1/8 L from A.P. ...	12.45	4		51.02	8	9.80	4		39.20	Mean actual sheer forward = 19.14
2/8 L " ...	3.19	2		6.38	-	1.50	2		3.00	Mean standard sheer forward = 76.33
Amidships ...	-	4		-	-	-	4		-	Mean standard sheer forward = 54.40
3/8 L from F.P. ...	6.38	2		12.76	6	6.50	2		13.00	Length of enclosed superstructure forward of amidships = 153.04
1/2 L " ...	25.51	4		102.04	24	24.00	4		96.00	" " aft of " = 148.00
F.P. ...	54.40	1		54.40	56 1/2	56.50	1		56.50	
Total ...	258.3			258.30					230.40	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{246}{18} (.75 - .0869) = + 1.02$

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 = **Ft.**
Summer freeboard = **_____**
Moulded draught (d) = **_____**

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **_____**

Addition for Winter North Atlantic Freeboard (if required) = **_____**

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ = **_____**

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 **.419 + .62** **1.339**
1.24 **1.24**

Depth Correction ... **4.45** **-**
Deduction for superstructures ... **1.11** **-**
Sheer correction ... **1.02** **-**
Round of Beam correction ... **-** **.31**
Correction for Thickness of Deck amidships ... **.48** **-**
Other corrections, scantlings, etc. ... **-** **-**

8.95 **1.42** **+ 4.53**

Summer Freeboard = **42.39**

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

- 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 " ...

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	No. 1. U.D.	No. 2. U.D.	No. 3. U.D.						
Dimensions of Hatchway	6'x6'	4'6"x7'9"	7'x6"						
COAMINGS	Height above Deck ... 36"	24"	30"						
	Thickness Sides ... 62"	44"	54"						
	Stiffeners ... 62"	44"	44"						
	Brackets, Stays ...								
HATCH BEAMS	Number ...	1							
	Spacing ...								
	Scantling and Sketch ...								
	Bearing Surface ...	3							
FORE AND AFTERS	Number ...	3	3	3					
	Spacing ...	6'	7'3"	7'0"					
	Unsupported Lengths ...								
	Scantling and Sketch ...								
	Bearing Surface ...	3	2 1/2	3					
HATCH COVERS	Material ...	Pre-3"							
	Thickness ...	3"							
	How fitted ...	Shw.							
	Bearing Surface ...	2 1/2							
Spacing of Cleats		22"							
Number of Tarpaulins		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:—

None

Particulars of Flush Bunker Scuttles:—

None

Particulars of Companionways:—

1 m Wood house under forecastle with hinged steel wood door (padlocked) 6" sill

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

2 on Fore Deck to hold 15'x10'x48" high with wood plugs (forming derrick posts)

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

None

Particulars of Gangway Cargo and Coaling Ports:—

None

Particulars of Scuppers and Sanitary Discharge Pipes:—

Discharge: 1 aft lead overboard below freeboard deck open at side. storm valve trap at the inner end.

Particulars of Side Scuttles:—

None

Particulars of Guard Rails:—

Forecastle: 3' high with 2 rods & stanchions spaced 4'-6" apart.

Particulars of Gangways, Lifelines, etc.:—

Lifelines available & adequate means of securing same.

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	153'-6"	5'-0"	21 1/2" x 25"	5	18.6 Sq ft	23 sq ft
Forward Well						

State position of each freeing port (F. and A. position and height above deck edge) } After Well: 6 ft from side, & = 6 ft spaced to 6 ft from poop front. 10" sill

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— *Plate shutters.*

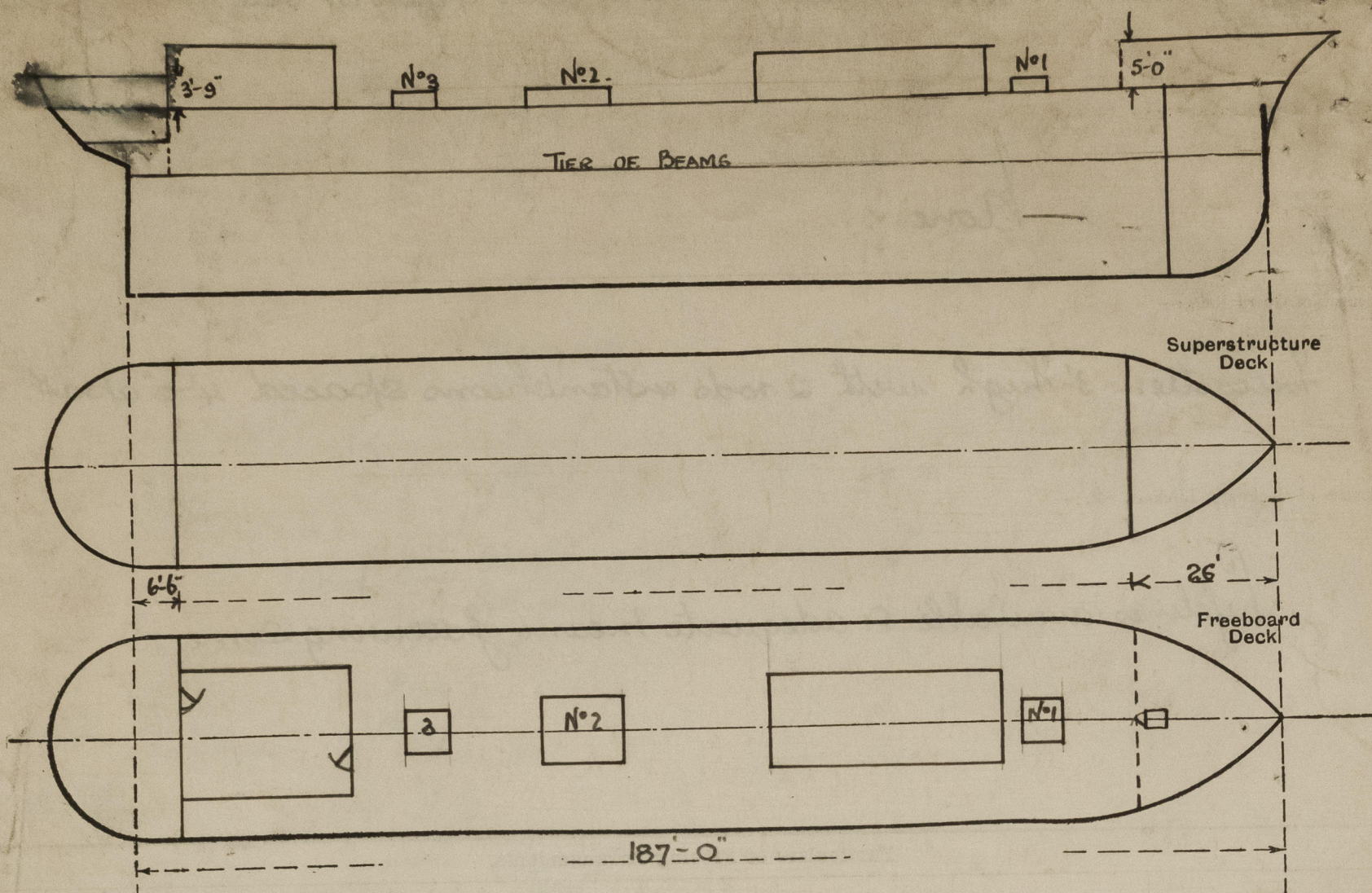
Additional area where sheer is less than standard.

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	Wood	3" th.	—	—	—	12' 2 1/2" x 2' 3"	10"	3' 9"
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	<i>1 hinged wood door, inside deckhouse, of wood. oper'd both sides</i>
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:—



No information re - T.P. 1 or Dispt.

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

This survey has been carried out in dry dock, in conjunction with a Port Special Survey No. 1.

Builder's name and yard number

Mounsey & Foster. No. 46

Names of sister ships

Owners

Rederi A/B Alastor (Consul Karl Schroder)

Fee £

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