

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

18 JUL 1932

52732

Computation of Freeboard for Steamer, ~~Sailing Ship, Tanker~~

having

a shelter deck with a tonnage opening

Port of Survey

Slesinger

(Type of Superstructures)

Panama

Date of Survey

12th July 1932.

Ship's Name

"HESPERIA"
COSTA RICA

Nationality and Port of Registry

Panama
Panama

Official Number

144661

Gross Tonnage

3895

Date of Build

1919

Name of Surveyor

H. Thomson

Moulded Dimensions: Length

382.0

Breadth

52.5

Depth

24.9

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

9063

tons

Coefficient of fineness for use with Tables

.752

Particulars of Classification

100A.1.

S.S. No. 170 3-4.2)

S.S. No. 170 3-4.2)

Shelter deck with platform

Depth for Freeboard (D)

Moulded depth

24.75

Stringer plate

.45

.03

Sheathing on exposed deck

 $T \left(\frac{L-S}{L} \right) =$

Depth for Freeboard (D) =

24.78

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 =

(25.47-24.78) 2.938 = -2.03

If restricted by superstructures

Round of Beam correction

Moulded Breadth (B)

52.5

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

12.6

Ship's Round of Beam =

13

Difference

.4

Restricted to

Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.4}{4} (1 - .9933) = \text{NIL}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	196.7	196.70	8'-0"		196.70
" overhang ...	none				
R.Q.D. enclosed					
" overhang					
Bridge enclosed...					
" overhang aft	178.6	178.60	8'-0"		178.60
" overhang forward					
F'cle enclosed ...					
" overhang ...	2.1	1.58	8'-0"		1.58
Trunk aft					
" forward ...					
Tonnage opening aft					
" forward	4.6	2.56			2.56
Total ...	382.0	379.44			379.44

Standard Height of Superstructure

7.32

" " R.Q.D.

Deduction for complete superstructure

40.80

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

100%

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

99.33

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

99.33

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B.

99.18

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = 40.8 + .9918 = 40.46

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	48.20	1		48.20	63	63.0	1		71.16
$\frac{1}{2}$ L from A.P. ...	21.45	4		85.80	21	22.51	4		126.68
$\frac{3}{8}$ L " " ...	5.30	2		10.60	4.2	5.62	2		15.66
Amidships		4					4		
$\frac{3}{8}$ L from F.P. ...	10.60	2		21.20	13	14.38	2		30.84
$\frac{1}{2}$ L " " ...	42.90	4		171.60	58	57.67	4		249.48
F.P. ...	96.40	1		96.40	132	132.0	1		140.16
Total ...				433.80		433.80			633.98

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{200.18}{18} \left(.75 - .5 \right) = -2.78$

If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 24.78

Summer freeboard = 2.02

Moulded draught (d) = 22.76

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 5.69 = 5 $\frac{3}{4}$

Addition for Winter North Atlantic Freeboard (if required) =

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 = $\frac{\Delta}{40T}$ inches= 5 $\frac{3}{4}$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

 $\frac{752+66}{1.36} = \frac{1432}{1.36}$

Depth Correction ...

Deduction for superstructures ...

Sheer correction ...

Round of Beam correction ...

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

66.00

69.50

+ -

2.03

40.46

2.78

-45.27

Summer Freeboard = 24.23

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~ Steel, Deck:—Tropical Fresh Water Line above Centre of Disc ... 11 $\frac{1}{2}$... 292 m/mFresh Water Line " " ... 5 $\frac{3}{4}$... 146 "Tropical Line " " ... 5 $\frac{3}{4}$... 146 "Winter Line below " " ... 5 $\frac{3}{4}$... 146 "Winter North Atlantic Line " " ... 5 $\frac{3}{4}$... 146 "

Tropical Fresh Water Freeboard ... 3.24 "

Fresh Water " " ... 4.70 "

Tropical " " ... 4.70 "

Winter " " ... 7.62 "

Winter North Atlantic " " ... 7.62 "

616 m/m

2-0 $\frac{1}{4}$ 1-0 $\frac{3}{4}$ 1-6 $\frac{1}{2}$ 2-6 $\frac{1}{2}$

121 JUL 1932

MARKING FORM
18 FEB 1933
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MARKING FORM

23 JUL 1932

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Lloyd's Register

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS																			
<div>← shelter deck upper deck shelter deck → casing top upper deck</div>																			
Description of Hatchway			N ^o 1	N ^o 2	N ^o 3	N ^o 4	N ^o 5	N ^o 1	N ^o 2	N ^o 3	N ^o 4	N ^o 5	HATCH TO STORE FORE	HATCH TO STORE AFT	COILING HATCH	COILING HATCH	TRIMMING HATCH	TRIMMING HATCH	TOWING HATCH
Dimensions of Hatchway			22'-11" x 20'-0"	34'-4 1/2" x 20'-0"	13'-9" x 17'-6"	29'-9 1/2" x 20'-0"	29'-9 1/2" x 20'-0"	22'-11" x 20'-0"	34'-4 1/2" x 20'-0"	13'-9" x 17'-6"	29'-9 1/2" x 20'-0"	29'-9 1/2" x 20'-0"	3'-0" x 1'-10"	4'-0" x 4'-0"	8'-6" x 3'-9"	6'-0" x 18'-0"	15'-9" x 3'-6"	4'-6" x 3'-0"	4'-6" x 17'-0"
COAMINGS	{	Height above Deck	35	35	35	35	35	12	12	12	12	12	30	35	35	11	12	12	12 x 3 1/2 x 50
		Thickness	1/4	5/8	1/4	5/8	5/8	1/4	5/8	1/4	5/8	5/8	3/8	1/2	3/8	3/8	3/8	3/8	
		Stiffeners	8 x 3 x 40	8 x 3 x 40	none	8 x 3 x 40	8 x 3 x 40	40	42	38	42	42	36	40	38	30	36	36	
		Brackets, Stays	none	none	none	none	none	none	none	none	none	none	none	none	none	none	none	none	
HATCH BEAMS	{	Number	3	5	1	5	5	3	5	1	5	5							
		Spacing	5'-8 1/4"	5'-8 1/2"	6'-10 1/2"	4'-11 1/2"	4'-11 1/2"	5'-8 1/2"	5'-8 1/2"	6'-10 1/2"	4'-11 1/2"	4'-11 1/2"							
		Scantling and Sketch	2 3/4 x 42							18 x 42									
		Bearing Surface	4 3/4 x 3 x 43 3 x 1 1/2							4 3/4 x 3 x 43 3 x 1 1/2									
FORE AND AFTERS	{	Number																	
		Spacing																	
		Unsupported Lengths																	
		Scantling* and Sketch																	
HATCH COVERS	{	Material				WP							W.P.	WP	WP	WP	W.P.	W.P.	WP
		Thickness				3								2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
		How fitted				F + A								✓	✓	Imposed	F + A	Imposed	F + A
		Bearing Surface				3								2 1/2	2 1/2	2	2 1/2	2 1/2	2 1/2
Spacing of Cleats			24	24	24	24	24	24	24	24	24	24	24	20	22	24	24	24	none
Number of Tarpaulins			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
<div>Are wood fore and afters steel shod at all bearing surfaces? none</div> <div>Are battens and wedges efficient and in good condition? yes</div> <div>Are tarpaulins in good condition and in accordance with rule requirements? yes</div> <div>Are lashings provided in accordance with rule requirements? Rings for lashings provided.</div>																			

Particulars of fiddley, funnel and ventilator coamings :—

engine skylight on casing top of steel strongly constructed
fodder passages protected by strong hinged plate covers
Ventilators on casing top in good condition.

Particulars of Flush Bunker Scuttles:—

Wm. W. W.

Particulars of Companionways :—

Entrance to crew quarters on shelter deck forward.

Runs 4'-11" x 2'-0" with 13" sills.

Hinged steel doors manipulated from both sides.

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

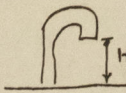
[illegible]

Ventilator coverings constructed in accordance with the Rules and closed with wood plugs and canvas covers.

strongly constituted & adequately protected.

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

1	and paper on	free desk	to f. p.	touch	9" high	x 3 1/2" dia
4	"	"	"	d. b.	11"	x 3 1/2 -
8	"	"	midships	-	11"	x 3 1/2 "
5	-	-	after	-	11"	x 3 1/2 -
1	"	"	-	a. p.	11	x 3 1/2 -



no shifting holes fitted
Efficient ~~no~~ means of closing and papers
provided.

Particulars of Gangway Cargo and Coaling Ports :—

me.

Particulars of Scuppers and Sanitary Discharge Pipes:—

4" scupper pipes with storm valves at ships side are led overboard from upper deck in positions shown in sketch.

Sanitary discharge pipes with storm valves at ships side are fitted below the upper deck where shown in sketch

Particulars of Side Scuttles:—

There are no side scuttles fitted below the foreboard deck

Side scuttles in shelter tween decks 11" dia fitted with hinged deadlights

Particulars of Guard Rails:—

Guard rails on shelter deck where shown in sketch 3'-7" high with 3 rails. Stanchions 4'-6" apart

Particulars of Gangways, Lifelines, etc.:—

none

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	6'-9"	8'-0"	20 x 18	1	2.5	
Forward Well						
State position of each freeing port } After Well:— Centre of well.. 15" above deck (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:— fitted with shutters. Additional area where sheer is less than standard.						

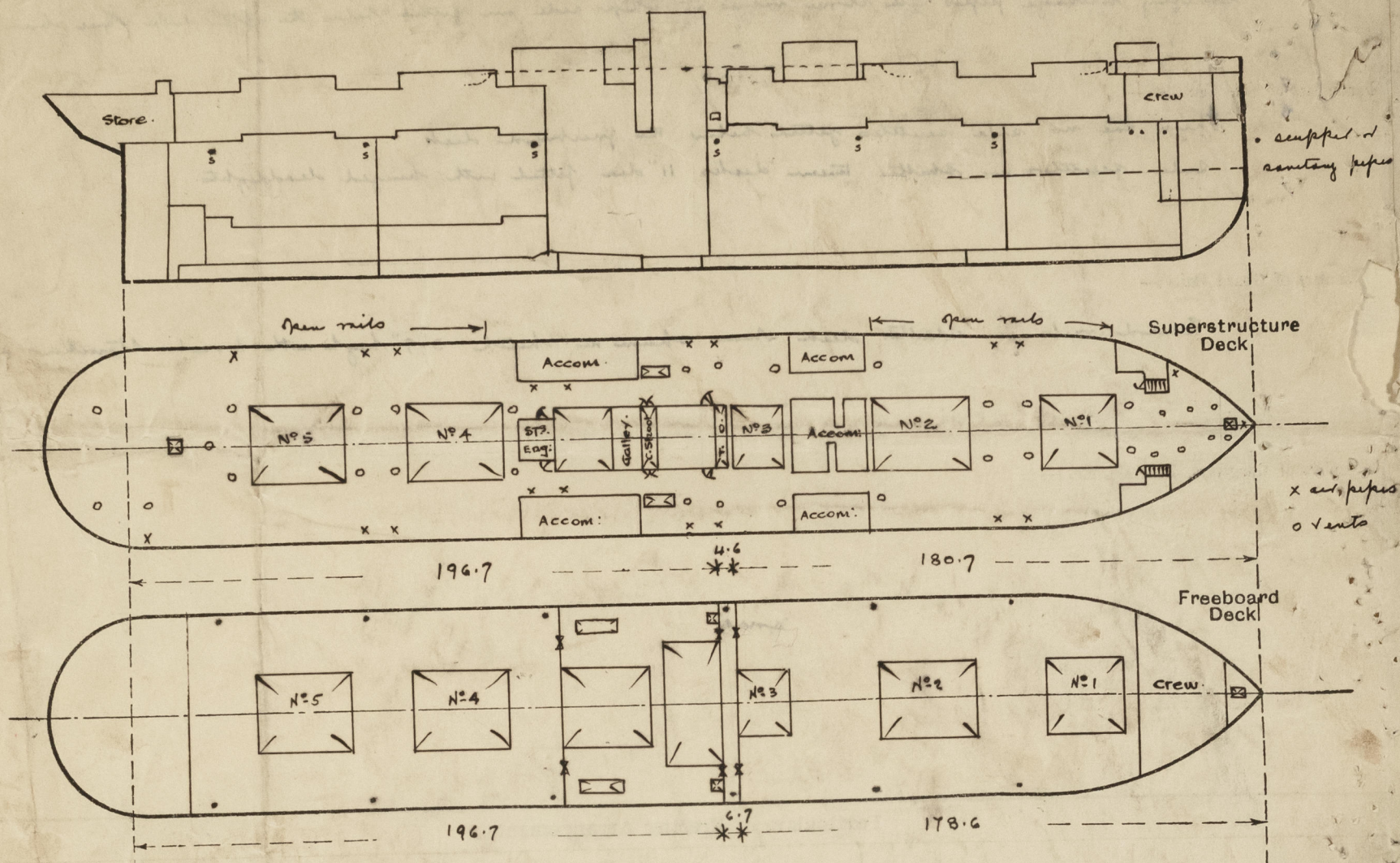
Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	none	.32	5 x 3 x .30 BA	30	brackets top & bottom	4'-6" x 3'-6"	15"	✓
Raised Quarter Deck Bulkhead ...								
Bridge, After Bulkhead								
Bridge, Forward Bulkhead	none	.32	5 x 3 x .30 BA	30	brackets top & bottom	4'-6" x 3'-6"	15"	✓
Forecastle Bulkhead								
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Fore- board or Raised Quarter Decks ...								
Exposed Machinery Casings on Super- structure Decks	9 x .34	.32	3 1/2 fl.	41	brackets at top	5'-3" x 2'-2" 5'-0" x 4'-0" 5'-3" x 2'-2"	18	✓
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances	9 x .34	.32	5 x 3 x .30 BA	54	none	none	✓	✓
Deckhouses on Flush Deck Ships ...								

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

Poop Bulkhead	Shifting boards 3" thick in channels riveted to bulkhead. Full height of opening
Raised Quarter Deck Bulkhead ...	
Bridge, After Bulkhead	
Bridge, Forward Bulkhead	Shifting boards 3" thick in channels riveted to bulkhead. Full height of opening.
Forecastle Bulkhead	
Exposed Machinery Casings on Fore- board or Raised Quarter Decks ...	
Exposed Machinery Casings on Super- structure Decks	Hinged steel doors. manipulated from both sides.
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances	none.
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:— This vessel is engaged in the Indian, African, Australian and American trades.

Timber freeboard not required.

The survey on this vessel was held afloat and confined to an examination of the means for closing the openings in the sides and decks of the ship.
No part of a special survey has been held at this time.

Builder's name and yard number. Flessburg. Schiffst. Ges. Nr. 351.

Names of sister ships. not known

Owners. Brit. & S. American Steam Nav. Co. Ltd, (Horsman Lane (London) Ltd)

Fee £ 11 : 18 : 0

Received by me



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