

16 MAY 1931

Index No. 34009
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

No. 98677

RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH
GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR
GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS
CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey Birkenhead.
Date of Survey While building.
Name of Surveyor C. Dean.

Ship's Name. **S.S. HILARY.**
Number in Register Book 90879.
Port of Registry and Nationality. Liverpool British
Official Number. 162350
Gross Tonnage. approx. 7700
Date of Build. 1931
Particulars of Classification. 100 A.1. with freeboard Contemplated.

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	<u>424.2'</u>	<u>56.2'</u>	<u>34.2'</u>	<u>6183.57</u>
Length on LOADLINE.	<u>420.0'</u>	Frame/Depth $8\frac{3}{4}$ Rule <u>7</u> Sheer <u>+79</u>	Ceiling <u>+20</u> Peak Tanks <u>11</u>	
CORRECTED DIMENSIONS.	<u>420.0</u>	<u>55.91</u>	<u>35.31</u>	<u>6194.57</u>

Co-efficient of fineness..... 747
Any modification necessary }
[Para. 4 (a) to (e)]* } C.D.B.
Co-efficient as corrected 73.

Sheer { Stem 105 3/4" } 158 3/4" ÷ 2 = 79 3/8" Mean 80.45
at { Sternpost 53" } 53.71" ÷ 2 = 26.855" Mean 52.00
Gradual 54.54" 107.54" ÷ 2 = 53.77" 112.27" ÷ 2 = 56.13" 79
Sheer at 1/2 of the length from { Stem 58 1/2" } 88 1/2" ÷ 2 = 44 1/4" Mean 80.45
Sternpost 30" 30" ÷ 2 = 15" Mean 55
Gradual mean Sheer 56.13
Standard mean Sheer [Table, Para. 18] 37.07 Correction
Difference 19.06 ÷ 4 =
§ If limited as Para. 18 (f) 37.07 ÷ 4 = 4.63 4 3/4

Rise in Sheer { At front of bridge house.....
from amidships }
[Para. 18 (e)] { At after end of forecastle

Fall in Sheer }
Para. 18 (d) } ÷ 2 =
Length uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C. 10'-2 1/4" - 3'-1 1/2" = 7'-0 3/4"
Correction for Length, if required (Para. 12, 13, and 14) - 2"
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 11, 12, 13, and 14) 9'-10 1/4"
Difference 2'-11 1/2"
Percentage as below 11.72%

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) Covered by deckhouse.

Allowance for Deck Erections 4 1/4"

	Length.	Length allowed.	Height.
Forecastle.....	<u>84' 5" 81' 5"</u>	<u>76.91</u>	<u>8'-0"</u>
Bridge House	<u>(incl. wing)</u>		
† Raised Qr. Dk.....	<u>✓</u>		
Poop.....	<u>✓</u>		
Total		<u>76.91</u>	
Length of Ship	<u>420</u>		
Corresponding percentage (Para. 11, 12, 13, or 14) }	<u>11.72%</u>	<u>= 1.465</u>	<u>aghts</u>

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Steel) Deck:—

Fresh Water Line	above centre of Disc
Indian Summer Line	"	"	"	...
Winter Line	below	"	"	...
Winter North Atlantic Line	"	"	"	...

frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside should be reported if possible.
allowance for deck erections under Para. 11 where the sheer drops about amidships of the R.Q.D. is to be taken from the level of the top of the amidship beam.
standard mean sheer means the sheer measured at the stem and stern and at the points of greatest rise and fall.
total standard mean sheer means the sheer measured at points distant from the stem and sternpost.

Moulded Depth as measured... 37'-0 1/2"
Rule wood etc. 3 1/2"
Mean effective sheathing 2 3/4"
Addition for Keel below base line for draught record..... 36'-11 3/4"
base

NOTE.—If the depth is measured when vessel is afloat, the details of measurement should be reported.

CORRECTION FOR LENGTH.

Length of Ship on Loadline..... 420.0'
Length in Table 443.75
Difference 23.75
Correction for 10ft., Table A. 17 Table C. 8
× Difference divided by 10 4.04 (if required.) 1.90
If 1/10ths length covered divide by 2 -4" -2"

183 × 3.50 = 64
817 × 2.50 = 204
2.68 CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered 3 1/2"
Thickness of usual wood deck, less stringer 2 1/2" sheathing fitted. Allowed in Mld. Depth

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... 54'-6" 9" inside home
Round of Beam 13"
Normal round..... 13.62
Difference 62 ÷ 2 = 31
Proportion of Deck uncovered (Para. 19) 81.7 25 + 1/4"

NOTE.—The round of beam should be reported on the full breadth of vessel at the gunwale.

Freeboard, Table A 10'-2 1/4"
Correction for Sheer - 4 3/4"
Correction for Length - 4"
Allowance for Deck Erections 9'-5 1/2"
Correction for Round of Beam..... - 4 1/4"
Correction for fall in Sheer (if any)..... 9'-1 1/4"
Correction for Steel Deck (if required) 9'-1 1/2"

Additions for non-compliance with provisions of Para. 11 (d) and (e) †

Other Corrections (if any) for 2 1/2" sheathing in way of quarter - 1/4"
For scantling & correspond with approved moulded draught for all seasons of 24'0" + 4'-2 1/4"
13'-3 1/2"

Winter Freeboard
Summer Freeboard
Indian Summer Freeboard
N. A. Winter Freeboard
13'-3 1/2"

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or steel deck with side.

$$13 - 13 \left(\frac{26.25}{28} \right)^2 = 13 - 11.42 = 1.58$$

Winter Freeboard from deck line.....
Summer " " " "
Indian Summer " " " "
N. A. Winter " " " "
13'-5" for all

MAY 1931



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Do all the Frames extend to the top height in the Poop? ☒ **None**

To what height do the Reverse Frames extend? ☒ **No**

Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? ☒ **No**

Give particulars of the means for closing the openings in Bulkhead ☒ **Has the Bridge House an efficient Bulkhead at the fore end?**

Is the Poop or Raised Quarter Deck connected with the Bridge House? ☒ **Yes**

Give particulars of the means for closing the openings in Bulkhead ☒ **and Coaming plate?**

What is the thickness of the Bridge Front plating? ☒ **and Coaming plate?**

Give scantlings and spacing of the Stiffeners ☒ **Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks?**

Are bracket plates fitted at each end of the Stiffeners? ☒ **Yes**

Has the Bridge House an efficient Iron Bulkhead at the after end? ☒ **Yes**

How are the openings closed? ☒ **STEEL**

Is the Forecastle at least as high as the main or top-gallant rail? ☒ **Yes**

Are the Engine and Boiler openings covered by a Bridge Poop, Raised Quarter Deck, enclosed by a Strong **Iron or Steel** Deckhouse? ☒ **Yes**

If the openings are not so protected are the exposed parts of the Casings efficiently constructed? ☒ **Yes**

Give thickness of plating; scantlings and spacing of Stiffeners ☒ **Are suitable means provided for closing all openings in them in bad weather?**

What is the height of the exposed Casings? ☒ **Yes**

Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of the Rules? Give particulars below: ☒ **Yes**

Position	No. 1 Fore.	No. 2.	No. 3	No. 4	No. 5
Size	14'-0" x 18'-0"	15'-11 1/2" x 18'-5"	15'-11 1/2" x 13'-2"	15'-11 1/2" x 18'-5"	18'-11 1/2" x 18'-5"
Height above top of DECK	2'-6" Lumbered	2'-6" Lumbered	2'-6" Lumbered	2'-6" Lumbered	2'-6" Lumbered
Thickness	44" 2nd Deck	44"	44" 2nd Deck	44" 2nd Deck	44" 2nd Deck
SHIFTING BEAMS OR WEB PLATES	3 angle 3 1/2" x 3 1/2"	3 angle 3 1/2" x 3 1/2"	2 angle 3 1/2" x 3 1/2"	3 angle 3 1/2" x 3 1/2"	3 angle 3 1/2" x 3 1/2"
Section and Scantlings	12 1/2" x 32"	12 1/2" x 32"	12 1/2" x 32"	12 1/2" x 32"	12 1/2" x 32"
Material	Steel	Steel	Steel	Steel	Steel
* FORE AND AFTERS					
Number					
Section and Scantlings					
Material					
HATCHES Thickness	3" W.P.	3" W.P.	3" W.P.	3" W.P.	3" W.P.
Remarks					

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.
(If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of keel to lower edge of lowest side scuttle.)

The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules:
What is the thickness of the Bridge Sheerstrake? ☒ **Strake between Main and Bridge Sheerstrakes?**

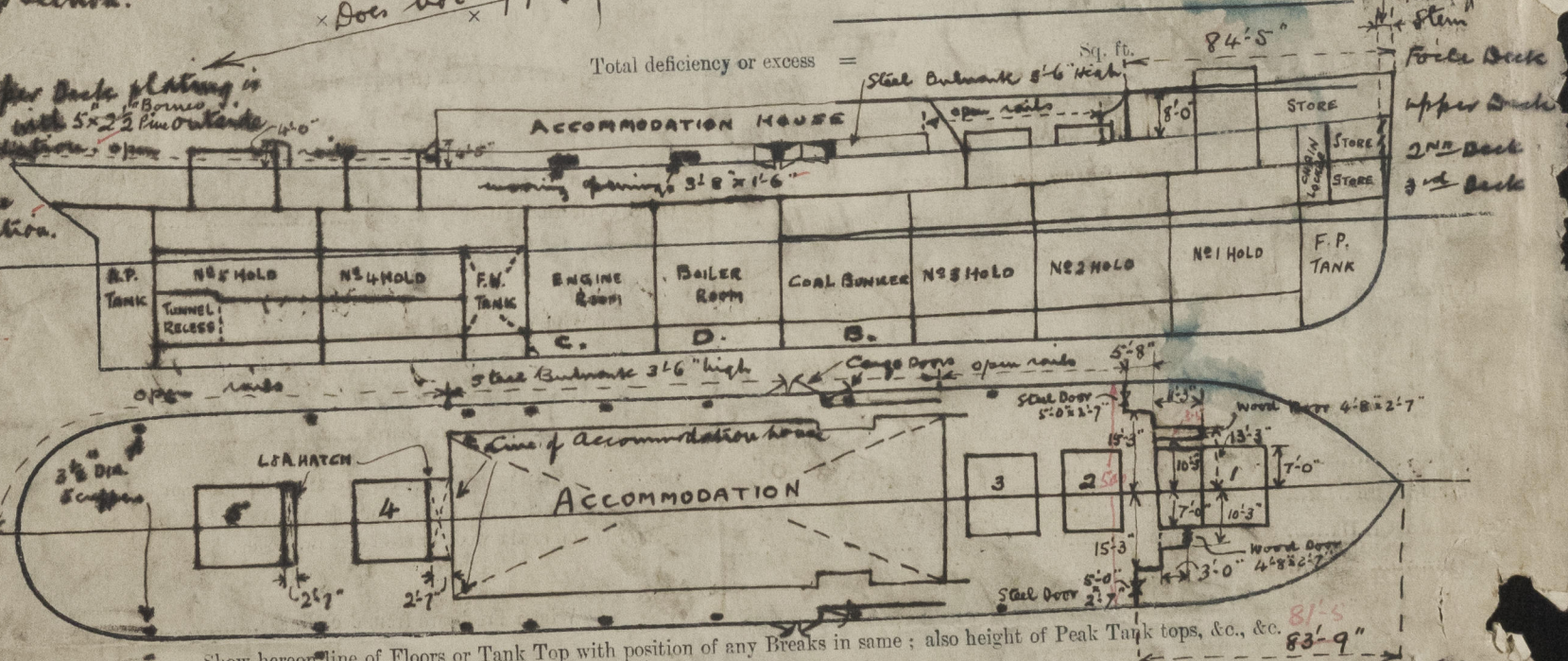
Delete the words ☒ The Crew ~~are~~ **are not**, berthed in the bridge house.
that do not apply ☒ The arrangements to enable them to get backwards and forwards from their quarters ~~are~~ **are not** satisfactory.

Length of Bulwarks in well ☒ **Sq. ft.**
Area of Freeing Ports required by Para. 11 (e) each side of vessel ☒ **Sq. ft.**
Ft. Tenth. Ft. Tenth. No. ☒ **Does not apply**

NOTE: Watertight fitted at fore end of upper deck as per standard section.

NOTE: Steel upper deck plating is sheathed with 5x22 Pine outside.

File L = 81.42
7/8 = 52.50
Closed 64.50
11.25 x 42.75 = 9.62
8.25 x 3.5 = 58
5.86 x 19.5 = 2.21
50 76.91



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.

any special features in the construction of the Vessel **Copies of the approved plans are in the office**
Builder's name and yard number **Messrs. Cammell Laird & Co. Ltd. Birkenhead**