

Lloyd's Register of British & Foreign Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

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

Port of Survey *Copenhagen*
Date of Survey *21 December 1911*
Name of Surveyor *Jos. Ross*

Ship's Name. *Helandica* Port of Registry *Copenhagen* Official Number. *4272* Gross Tonnage. *4964.42* Date of Build. *Building* Particulars of Classification. *8/100A / Awning Deck with freeboard.*

Registered Length from Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK Tonnage.
	370.4	53.2	19.3 to Main Deck 27.3 to Awning Deck 6.5 to Ceiling	4272
			Frame Depth $4\frac{1}{2}$ Rule $6\frac{5}{8}$ Ceiling $4\frac{1}{2}$ Sheer $3\frac{1}{2}$ $4 \times 2 = 8\frac{1}{2}$	Peak 2 inches Tanks 20
	370.4	52.52	27.71	4272 Tons

Moulded Depth as measured..... *30' 0"*
22.0 to Main Deck
30.0 " Awning Deck

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..... *370.4*
Length in Table *360*
Difference *10.4*
Correction for 10ft., Table A. *1.5* Table C. *.8*
× Difference divided by 10 *+1½* (if required.) *+¾*
If $\frac{1}{10}$ ths length covered divide by 2

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{1}{10}$ ths length covered *.47*
Thickness of usual wood deck, less stringer..... *3½*
2½ Teak Sheathing *.4791" = -½*

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... *52*
Round of Beam..... *13½"*
Normal round
Difference $\div 2 =$
Proportion of Deck uncovered (Para. 19)

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

ent of fineness *.79*
Modification necessary } *Cell 5B*
ent as corrected *.77*

Stem... *6'-6"* } *9'-0" ÷ 2 = 54"* Mean
Sternpost... *2'-0"* }
of the length from { Stem *46* } *60 ÷ 2 = 30* Mean
Sternpost *14* } *÷ 55 = 54.5"*
mean Sheer *54.25*
mean Sheer (Table, Para. 18) *47.04* Correction
Difference..... *7.21* $\div 4 = -1\frac{3}{4}$
ited as Para. 18 (f).....

in Sheer { At front of bridge house.....
amidships {
18 (e) } At after end of forecastle

in sheer } $\div 2 =$
18 (d) }
uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—

Table C..... *4 " 4½"*
on for Length, if required (Para. 12, 13, and 14) *+ ¾"*
4 " 5½"
rd by Table A. corrected for sheer, and for length, } *7 " 6½"*
if required (Para. 12, 13, and 14) }
ce *3 " 1"*
age as below..... *29.9%*
= 11

on for R. Q. Dk. if engine and boiler openings not }
vered by bridge house (Para. 11) }
ce for Deck Erections

	Length.	Length allowed.	Height.
le.....	32.14	32.14	7.5
House	77.08	77.08	8.0
Raised Qr. Dk.....	54.14	40.60	8.0
Poop.....	25.33	25.33	7.5
Total		175.15	
Length of Ship	370.4		<i>.47</i>
Corresponding percentage (Para. 11, 12, 13, or 14)			<i>29.9%</i>

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

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

Winter Freeboard *6 " 9"*
Summer Freeboard *6 " 2"*
Indian Summer Freeboard *5 " 9"*
N. A. Winter Freeboard

Correction necessary because clearside amidships, measured in accordance with the Statute, is not taken at the intersection of the wood or iron deck with side. *2*

Winter Freeboard from deck line *6 " 9"*
Summer " " " *6 " 4"*
Indian Summer " " " *5 " 11"*
N. A. Winter " " "

MARKING FORM
RECEIVED 18 NOV 1912

NOTE.—The surveyor should state whether the fall in sheer as reported is measured relatively to the straight line of keel or to the water line. If measured relatively to water line the vessel's draft at time of survey, and also the usual load draft forward and aft, should be reported.

17 Feb 1912

Do all the Frames extend to the top height in the Poop? *yes* Raised Quarter Deck? *✓* Bridge House? *yes* Forecastle? *yes*
 To what height do the Reverse Frames extend? *92 x 82 x 52 frames are extended to Running & Main Decks alternately; the intermediate are 52 x 32 x 46 reebo*
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *yes*
 Give particulars of the means for closing the openings in Bulkhead *hinged steel doors*
 Is the Poop or Raised Quarter Deck connected with the Bridge House? *no* Has the Bridge House an efficient Bulkhead at the fore end? *yes*
 Give particulars of the means for closing the openings in Bulkhead *2 hinged steel doors 5'6" x 2'6"; 2 windows 3'9" x 2'9" closed by hinged steel plates & turn*
 What is the thickness of the Bridge Front plating? *.40* and Coaming plate? *.44*
 Give scantlings and spacing of the Stiffeners *forw Bridge: 7 x 3 x 3 x .375 spaced 30" apart; after Bridge: 7 x 3 x 3 x .375 spaced 30"*
 Are bracket plates fitted at each end of the Stiffeners? *Double lugs top & bottom.* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *yes.*
 Has the Bridge House an efficient Iron Bulkhead at the after end? *yes*
 How are the openings closed? *hinged steel doors at forward bridge; open at after bridge.*
 Is the Forecastle at least as high as the main or top ~~gallant~~ rail? *yes* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *yes*
 Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or 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? *✓*
 Give thickness of plating; scantlings and spacing of Stiffeners *✓*

There are openings x 4'0" closed wood-plank thick in the bulk, 15" x 15"

What is the height of the exposed Casings? *3'0" above bridge* Are suitable means provided for closing all openings in them in bad weather? *yes*
 Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:—

Position and Item.	No 1: 29'2" x 16'0"	No 2: 31'3" x 16'0"	No 3: 25'0" x 16'0"	No 4: 25'0" x 16'0"		
Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.
Height above top of DECK	24	24	24	24		
COAMING Sides.....	.48	.48	.44	.44		
Thickness Ends.....	.44	.44	.40	.40		
SHIFTING BEAMS OR WEB PLATES.						
Number.....	5	6	5	5		
Section and Scantlings.....	7" 21" x 34"	7" 18" x 34"	as No 2	as No 2		
Material.....	4" x 3" x .40	4" x 3" x .40				
FORE AND AFTERS.						
Number.....	✓	✓	✓	✓		
Section and Scantlings.....						
Material.....						
HATCHES Thickness.....	3"	3"	3"	3"		
Remarks.....						

* When the Fore and Afters are of wood the depth should be stated from the underside of the hatches.

(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 deck at side amidships 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? *.40* Strake between Main and Bridge Sheerstrakes? *.40*
 Delete the words "The Crew are not berthed in the bridge house. Poop." *Awning 32* *Awning 32* *Main & Awning 32* *.62*
 that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, *are not* satisfactory.

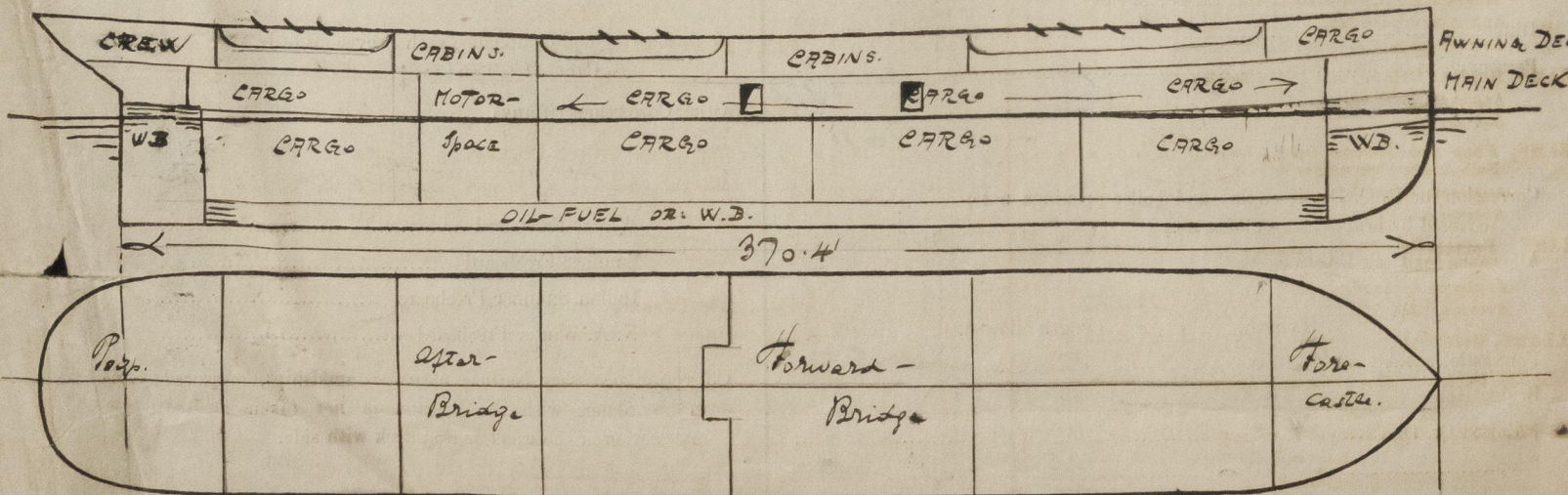
Length of Bulwarks in well *forw = 92'3"*
32 = 41'8"

Area of Freeing Ports required by Para. 11 (e) each side of vessel = Sq. ft.

Ft. Tenths. Ft. Tenths. No.

Forward well: 3.5 x 1.83 x 3 } Freeing Ports = 19.20
 Aft well: 3.25 x 1.75 x 2 } (each side of vessel) = 11.38
 Sq. ft.

Total deficiency or excess = Sq. ft.



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

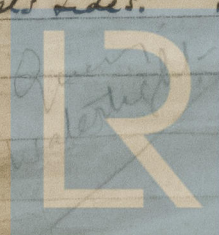
State any special features in the construction of the Vessel *There are two sideports in the Tween Decks each side 13" above the Main Deck at side 4'10" x 2'10" clear opening, efficiently built according approved plans. There are no Tween Deck Scuppers in the vessels sides. The side port No 2 is fitted with*

Owners *A. S. De. Gotasiatske Kompani*

Address *Copenhagen.*

Fee £ *114.80 Kroner.*

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