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Port No. 593

Index No. 31358
(For London Office only.)

FRI. JUL 18 1924

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

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

Port of Survey Malmö.
Date of Survey 14th July, 1924.
Name of Surveyor G. J. J. J.

Kuums Met. Verkstads AB. No. 143.

Ship's Name	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
"FRYKEN"	Göteborg Swedish	✓	about 1500	1924	100A1-Class contemplated.

LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
254.34	38.32	16.50	1280.01
256'	Frame Depth 4 Rule " 5 2 x2 = -33	Ceiling fitted Sheer +.56 To Tank Top 16.69	Peak } Tanks } Incl'd
256.0	37.99	14.25	1280.01

Moulded Depth as measured..... 18' 9 3/4"
Addition for Keel below base line for draught record.... 1 1/4" inches.

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

18-9 3/4
19-7 1/2
2-11 1/2
16.8 1/2

Efficient of fineness..... .763
Modification necessary }
[Para. 4 (a) to (e)]* }
Efficient as corrected74.

CORRECTION FOR LENGTH.

Length of Ship on Loadline.....	256.0
Length in Table	225.75
Difference	30.25
Correction for 10ft., Table A.	1.1
Table C.6
x Difference divided by 10	33275 (if required.)
1815	
If 1/10ths length covered divide by 2	+ 3 1/2"
	+ 1 3/4"

Mean Sheer at 1/3 of the length from {
Stem..... 83 1/2 } 112.5 ÷ 2 = 56.25... Mean
(Sternpost ... 29 }
Mean Sheer at 1/3 of the length from {
Stem 41.25 } 61.5 ÷ 2 = 30.75... Mean
Sternpost 20.25 }
Mean Sheer 55.91
Standard mean Sheer [Table, Para. 18] 55.60 Correction
Difference..... 20.31 ÷ 4 = 5.08
If limited as Para. 18 (f) -5"

CORRECTION FOR IRON DECK.

Proportion covered, if less than 1/10ths length covered448
Thickness of usual wood deck, less stringer	3/2
	- 1 1/2"

Rise in Sheer {
from amidships }
Para. 18 (e) }
At front of bridge house..... 4 3/4"
At after end of forecastle 3' 11 1/4"

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships.....	38.0
Round of Beam	10"
Normal round.....	9 1/2
Difference	1/2
Proportion of Deck uncovered (Para. 19)55
	- 1/4"

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

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

Freeboard, Table A	3" 5/16
Correction for Sheer	- 5
Correction for Length	3.0 1/4
	+ 3 1/4
	3. 3 1/2
Allowance for Deck Erections	- 4
	2" 8 1/2
Correction for Round of Beam.....	- 1/4
	2" 8 1/2

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C.....	1" 1"
Correction for Length, if required (Para. 12, 13, and 14)	+ 1 3/4
	1" 2 3/4
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14)	3- 3 1/2
Difference	2" 0 3/4
Percentage as below.....	28.01%
	6.93

Correction for fall in Sheer (if any).....	.
Correction for Iron Deck (if required)	- 1 1/2
	2" 6 3/4
Additions for non-compliance with provisions of } Para. 11 (d) and (e) † } Other Corrections (if any)	

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)			
Allowance for Deck Erections	- 7"		
Forecastle.....	25' 7"	25.58	7 1/2"
Bridge House	69' 8"	68.00	7 1/2"
Raised Qr. Dk.....			
Poop.....	20' 3"	20.00	7 1/2"
Total		113.58	
Length of Ship		256.0	
Corresponding percentage } (Para. 12, 13, and 14) }	28.01%		

Winter Freeboard	2" 6 3/4
Summer Freeboard	2" 4 1/4
Indian Summer Freeboard	2" 1 3/4
N. A. Winter Freeboard	2" 8 3/4
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.	1 3/4"

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

Fresh Water Line above centre of Disc	4
Indian Summer Line " " "	2 1/2
Winter Line below " " "	2 1/2
Winter North Atlantic Line " " "	4 1/2

Winter Freeboard from deck line	2" 8 1/2
Summer " " "	2" 6
Indian Summer " " "	2" 3 1/2
N. A. Winter " " "	2" 10 1/2
Steel Deck	2" 6

† If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.
‡ In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops abaft amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.
§ In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and stern-post. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and stern-post.

† State dimensions of freeing port area on back of this form.
‡ 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.

MARKING FORM
RECEIVED 6 AUG 1924



W441-0154

Do all the Frames extend to the top height in the Poop? *yes* Raised Quarter Deck? Bridge House? *Alternate* Forecastle? *yes*
 To what height do the Reverse Frames extend? *Bulk angle framing*
 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 *No openings*
 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 *Hinged packed steel doors*
 What is the thickness of the Bridge Front plating? *.32"* and Coaming plate? *.36"*
 Give scantlings and spacing of the Stiffeners *7" x 3" x .50" bulk angles spaced 30". 8" x 3" x .50" L at sides of doors.*
 Are bracket plates fitted at each end of the Stiffeners? *yes* 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? *Portable steel doors secured by hook bolts 10' apart, not passing through bulk*
 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? *no*
 Are the Engine and Boiler openings covered by a Bridge, ~~Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse?~~ *yes and efficient steel deckhouses on top of*
 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
 What is the height of the exposed Casings? *7' 1/2" 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:— *yes*

Position and Size.	No. 1 23' x 18'		No. 2 23' x 18'		No. 3 26' 10" x 18'		No. 4 23' x 18'	
	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING	Height above top of DECK	3 1/2"	24"	Same	3 1/2"		Same	
	Thickness	Sides .44"	.44"	as No. 1	.44"		as No. 1	
SHIFTING BEAMS OR WEB PLATES	Number	3 JL 18"-9"	3 JL 18"-9"	Same	4 JL 18"-9"		Same	
	Section and Scantlings	4" x 3" x .44"	4" x 3" x .44"	as No. 1	4" x 3" x .44"		as No. 1	
	Material	Steel	Steel	as No. 1	Steel		as No. 1	
* FORE AND AFTERS	Number	Horizontal bulkheads 7 x 3 x .42 supported by stays to deck 2" diam. spacing 8'	Same	as No. 1	Horizontal bulkheads stiffeners to hatch coamings 10 1/2 x 3 x .56 supported by stays to deck 2" diam. spacing 9'		Same	as No. 1
	Section and Scantlings							
HATCHES	Thickness	2 1/2"	2 1/2"	Same as No. 1	2 1/2"		Same as No. 1	
	Remarks							

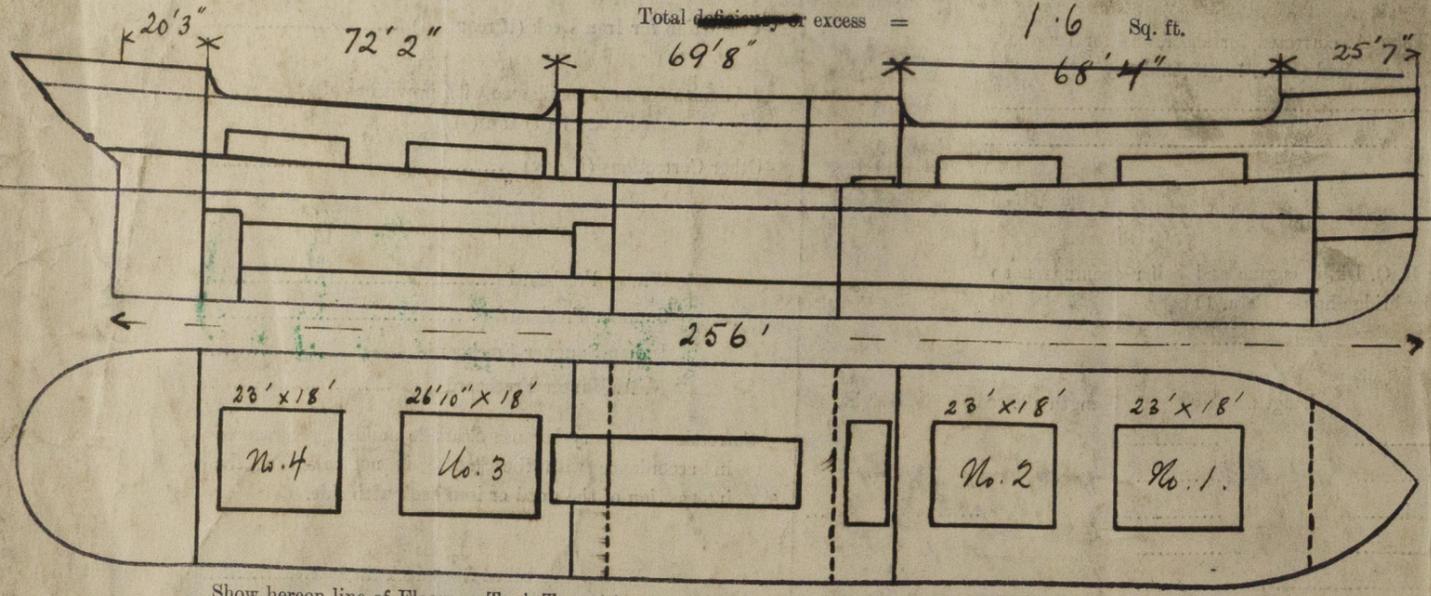
* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.
 (If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Lead Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge 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~~ *sides*? *.42"* Strake between Main and Bridge Sheerstrakes?

Delete the words { The Crew ~~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, ~~unsatisfactory~~ satisfactory.

Length of Bulwarks in well *forward 68' 4", aft 72' 2" x 4.0 height.* *Area forward 68 x 33 = 2244*
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = 56.2 Sq. ft.
 Ft. Tenths. Ft. Tenths. No. *57.452* Freeing Ports = 57.8 Sq. ft. *Area aft 72 x 16 = 1152*
 3.4 x 1.7 x 10 (each side of vessel)

Total deficiency or excess = 1.6 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 *Intermediate frames fitted from stern to frame No. 115 extending from above head w. l. to lower painting stringer. D & E. Strakes increased to 50+ sister vessels built: s.s. "Orno", "Ardenya", "Burgundia". The vessel is expected ready for sea towards the end of the under deck tank registered dimension be wired to London vessel measured.*
 Owners *Angbats aktie bolaget Form (Dan Brostrom, Ugr.)*
 Address *Gothenburg.*
 See # *Kr. 109.20*
 Received by me *91 (Lundstr. 73.8.74)*

