

THE BRITISH CORPORATION REGISTER OF  
SHIPPING AND AIRCRAFT

## SURVEY FOR FREEBOARD

STEAMER, TANKER, SAILER:

BORE IX

Ex "Queensbury"  
"Yonne"  
"Strathairn"

WITHOUT TIMBER DECK CARGO

Nationality

Finnish

Builders' Name and No. of Ship

Port of Registry

Åbo

A. McMillan &amp; Sons Ltd. No. 432

Official Number

1052

Owners

Gross Tonnage

4512 T.H.K.

Angfartygs aktieföretag "Bore"

Date of Build

10/1910

Port and Date of Survey Kotka, Finland

Name of Surveyor

J. Thure Silander

Particulars of Classification

B.S.\*

Names of Sister Ships

Type of Superstructures

Poop, Bridge + Forecastle

Give full particulars of the following:—

Fiddley and Funnel Coamings (state height of coamings, type of fiddley covers, and if these are permanently attached in their proper positions)

Hinged steel covers over fiddley openings on casing top 7'-6" above Bridge deck

Flush Bunker Scuttles on freeboard and superstructure decks (state material, type of joints, etc., and if secured by hinge or permanent chain attachment)

2 P. &amp; S. 15" dia. on Bridge deck, permanently closed

Companionways on freeboard and superstructure decks (state material, height of doorway sills, type of doors, and if these can be closed and secured from both sides)

none

Ventilators in exposed positions on freeboard, raised quarter and superstructure decks (state height of steel coamings, pitch of rivets in deck connection, type of closing arrangements)

+ wood plugs and canvas covers.  
Fels:- 17", 17 3/4", 20 1/2" and 12" coaming.  
Wells:- 33 1/2" coaming.  
Bridge:- 19 1/2" " also 6 small vents.  
Poop:- 17" "

↑ 3 1/2" - 4 1/2"

Airpipes in exposed positions on freeboard, raised quarter and superstructure decks (state height to opening and if satisfactory closing arrangements are provided)

In Wells:- 36" high canvas covers.

Bridge Dk:- 20" " 1 off.

Scuppers and Sanitary Discharge Pipes (state material, type and number of valves) all discharge above upper dk &amp; have valves at shell. In order and satisfactory in service.

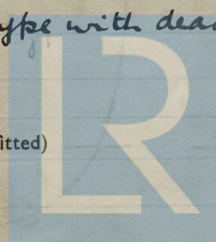
Side Scuttles to spaces below freeboard and superstructure decks (state type or pattern, and if permanent or portable deadlights are supplied)

In superstructures:- ordinary hinged type with deadlight.

Guard Rails on freeboard and superstructure decks (state type and where fitted)

Poop &amp; 4th Dks:- 3'-0" high 3 rods

A.E. of Bridge:- 1-



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002449-002456-0127



## COMPUTATION OF FREEBOARD.

Length on summer load line 375.75 Moulded Breadth 52'-0" Moulded Depth 28'-0 1/2" Depth of Keel 20'-0" Tons

Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth 10355

Co-efficient of fineness for use with tables  $\frac{\Delta \times 35}{L \times B \times D \times .85} = .778$

Displacement and tons per inch immersion in salt water at summer load line 9400 & 39.08

Moulded depth 28.042 Deduction for Fresh Water  $\frac{\Delta}{40T} = 6.37 \times 6 1/2$  inches

Stringer Plate .475 .039 Round of Beam Correction

Sheathing on exposed deck T  $(\frac{L-S}{L})$  - Ships Round of Beam 12.75 inches

Rise of floor (in sailers) - Standard Round of Beam  $\frac{B \times 12}{50} = 12.48$

Depth for Freeboard (D) 28.081 Difference .27

Table Depth 25.05 Restricted to

Depth Correction  $\frac{130 \times 3.031}{100} = 8.76$  Correction  $\frac{\text{Difference}}{4} \times (1 - \frac{E}{L}) = \frac{.0675 \times .5356}{1} = .03615$

If restricted by superstructures

Station	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop	35.67	.25	7.5	35.92		35.79
Raised Quarter Deck						
Bridge	99.67	.33	7.5	100.0		99.92
Forecastle	38.92	.25	7.5	39.17		38.84
Trunk Aft						
Forward						
Tonnage Opening Aft						
Forward						
Totals	175.09			175.09		174.55

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
A.P.	55.5	47.57		1	55.5
1/2 L from A.P.	24	21.17		4	96
1/2 L from A.P.	6	5.23		2	12
Amidships	0	0		4	0
1/2 L from F.P.	12	10.46		2	24
1/2 L	48	42.34		4	192
F.P.	111	95.14		1	111
				18	490.5

Mean Actual sheer aft = over 1

Mean Actual sheer forward =

Length of enclosed superstructure forward of amidships = Length of Ship

Length of enclosed superstructure aft of amidships = Length of Ship

Sheer Correction = Difference  $\times (\frac{75}{2L}) = 3.435 \times .51705 = 1.776$

If limited on account of midship superstructure =

to maximum allowance of 1 1/2 ins. per 100 ft. =

TABULAR FREEBOARD corrected for flush deck if required = 64.125

Correction for co-efficient =  $\frac{1.458}{1.36} = 1.072$

	+	-
Depth correction	8.76	
Deduction for superstructures		13.32
Sheer correction		1.78
Round of Beam correction		.04
Correction for thickness of deck amidships		
Other corrections, scantlings, etc.		
	8.76	15.14

Sailer, Tanker, Steamer Timber

Depth to Freeboard Deck in feet 28.081

Summer Freeboard in feet 5.197

Moulded Draught (d) 22.884 (d1.)

Addition for Keel

Extreme draught

Deduction for Tropical and addition for Winter freeboard  $d/4 = 5.721$  ins.

Addition for Winter North Atlantic (if required) = ins.

Deduction for Tropical Timber Freeboard  $\frac{d}{4} = 5.721$  ins.

Addition for Winter " "  $\frac{d}{3} = 7.628$  ins.

N.A. Timber Freeboard (if required) = ins.

Summer Freeboard in inches = 62.36

Additional allowance for superstructures on Timber carrying ships = 5.721

Summer Timber Freeboard in inches = 68.081

Lloyd 5/10/32

1906

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (steel) 5'-2 1/2" = 1587 mm

TROPICAL FRESH WATER LINE above centre of disc 11 = 280 mm Corresponding Freeboard 4'-3 1/2" = 1307 "

FRESH WATER LINE " " " 6 1/4 = 159 " " " 4'-8 1/4" = 1428 "

TROPICAL LINE " " " 4 3/4 = 121 " " " 4'-9 3/4" = 1466 "

WINTER LINE below " " 4 3/4 = 121 " " " 5'-7 1/4" = 1708 mm

WINTER NORTH ATLANTIC LINE " " " " " " " " " " " "

SUMMER TIMBER FREEBOARD recommended amidships from centre of disc to top of deck line

TROPICAL FRESH WATER Timber line above centre of disc Corresponding Freeboard

FRESH WATER " " " " " " " " " " " "

TROPICAL " " " " " " " " " " " "

WINTER " " below " " " " " " " " " " " "

WINTER NORTH ATLANTIC " " " " " " " " " " " "

	Coaming	Plating	Stiffeners	Spacing	End Attachments	No. and size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	39	39	6 x 2 1/4 x 4	27 1/2"	Butts each end	2 e 5' x 4'	17 1/2"	-
R.Q.D. "								-
Bridge Aft Bulkhead	32	32	3 x 3 x 4	24"		2 e 4' 1 1/4 x 3' 2"	18"	-
" Forward "	47	47	7 1/2 x 3 x 47 1/2	27"	Butts each end	2 e 4' 10" x 2' 9 1/2"	19 1/2"	-
Forecastle Bulkhead								-
Trunk, Aft								-
" Forward								-
Exposed Machinery Casings on Freeboard or R.Q. Decks								-
Exposed Machinery Casings on superstructure decks	35	28	3 x 2 1/2 x 32	26 3/4"		4 e 4' 10" x 2'	18"	7'-6"
Machinery Casings within Superstructures not fitted with Cl. 1. closing appliances	39	35	3 1/2 x 3 x 4	29"		2 e 2' 6 1/2" x 2' 6"	23"	7'-6"
Deckhouses on flush deck ships								-

## PARTICULARS OF CLOSING APPLIANCES (state if capable of being manipulated from both sides)

Poop Bulkhead Strong wood doors, outside only.

R.Q.D. "

Bridge Aft Bulkhead Strong wood doors, both sides.

" Forward " Hinged steel W.T. doors.

Forecastle Bulkhead Open passageway at centre.

Exposed Machinery Casings on Freeboard or R.Q. decks

Exposed Machinery Casings on superstructure decks Hinged steel doors, both sides

Machinery Casings within superstructures not fitted with Cl. 1. Closing Appliances

Deck houses on Flush Deck ships

## PARTICULARS OF FREEING ARRANGEMENTS

	Length of Bulwark	Height of Bulwark	No. and size of Freeing Ports each side	Area each side	Rule Area
After Well	99.08	4'-6"	4 @ 3'-6" x 2'-0 1/2"	28.56 sq	19.82 sq
Forward Well	101.58	"	3 @ 3'-6" x 2'-0 1/2"	21.42 sq	20.32 sq
State fore and aft position and height above deck to bottom of port, for each port			After Well sill 12" 16'-6", 37'-6", 67'-6" & 91' to centre from Bridge aft bld.		
State whether freeing ports are fitted with shutters, bars or rails, and give particulars			Forward Well " " 19'-6", 39', 63' " " " " " "		

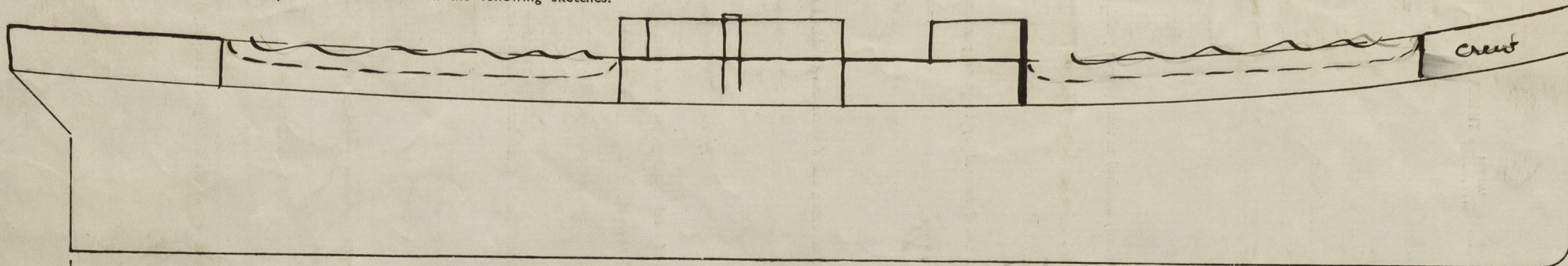
Give particulars of freeing port area, etc., on superstructure decks

Bulwark on Bridge Dk 3'-high 2 ports each side (not forming well)

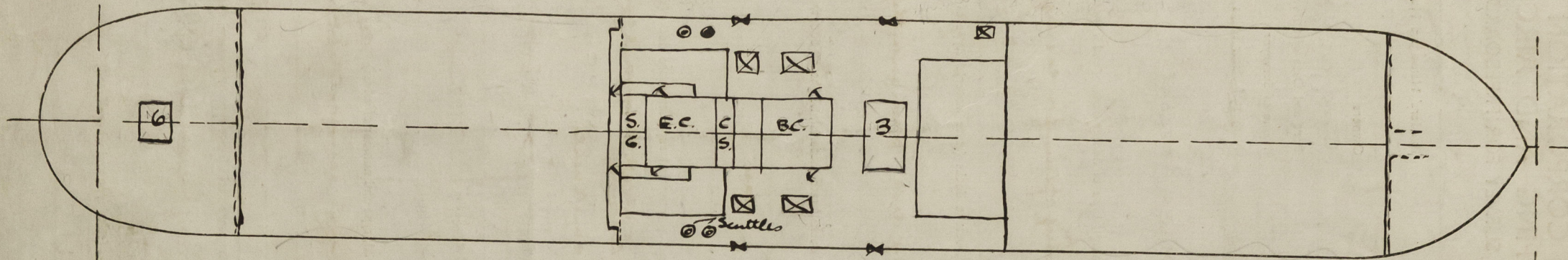
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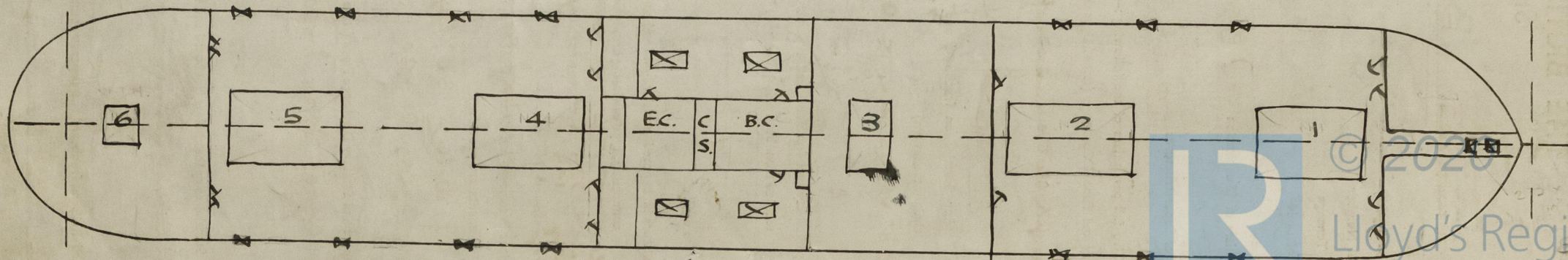
Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatches, extent and thickness of deck sheathing, gangway, cargo, and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches.



Superstructure Deck



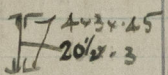
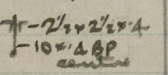
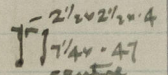
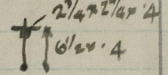
Freeboard Deck



Statement of special features in the construction of the ship



# PARTICULARS OF ALL HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Number and description of Hatchway from forward		1	2	3	4	5	6	7
Dimensions of Hatchway		← upper D. → 28'-2" x 16'	← upper D. → 32'-6" x 16'	Bridge D. 10'-10" x 16'	← upper D. → 28'-2" x 16'	← upper D. → 28'-2" x 16'	Port D. 8' x 10'	upper D. in Bridge 10'-10" x 16'
COAMINGS	Height above { steel wood } deck	3'-0"	3'-0"	2'-6"	3'-0"	3'-0"	2'-6"	1'-0"
	Thickness { sides ends	.5 .44	.5 .44	.44	.5 .44	.5 .44	.44	.44
	Stiffeners			—			—	—
	Brackets or Stays			—			—	—
HATCH BEAMS	Number	2	3	/	2	2	/	/
	Spacing	9'-4 5/8"	8'-1 1/2"		9'-4 5/8"	9'-4 5/8"		
	Scantling and Sketch		as N.1		as N.1	as N.1		
	Bearing Surface and thickness of carriers or sockets	3x3x.4 dhl	as N.1		as N.1	as N.1		
FORE AND AFTERS	Number	3	3	3	3	3	1	3
	Spacing	5'-4"		5'-4"			5'	5'-4"
	Unsupported lengths	9'-4 5/8"		10'-10"			8'	10'-10"
	Scantling and Sketch		as N.1		as N.1	as N.1		as Bridge D.
HATCH COVERS	Bearing Surface and thickness of carriers or sockets	8x3x.45 PA sides		8x3x.32 PA sides				
		3"	3"	3 3/8"	3"	3"	3 3/8"	3 3/8"
	Material	W. Pine	W.P.	W.P.	W.P.	W.P.	W.P.	W.P.
	Thickness	3"	3"	2 3/4"	3"	3"	2 3/8"	2 3/4"
HATCH COVERS	How Fitted	Shwattchips	Shwattchips	Shwattchips	Shwattchips	Shwattchips	Shwattchips	Shwattchips
	Bearing Surface	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"
	Spacing of Cleats	23"	23 1/2"	23 1/2"	23"	23"	21 1/2"	23 1/2"
	Number of Tarpaulins	3	23	22	3	3	2	2

Note 1 small hatchways have efficient battering arrangements

Are wood fore and afters steel shod at all bearing surfaces?

[Surveyors are to note that wood fore and afters are to be steel shod at all bearing surfaces.]

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



COMPUTATION OF FREEBOARD

Gangways and Lifelines *each side in forward well.*

Gangway, Cargo and Coaling Ports in sides of ship *None*

SUPPLEMENTARY REQUIREMENTS FOR STEAMER CARRYING TIMBER DECK CARGOES

Do Superstructures and Machinery Casings comply with rules ?

Is provision made for protection of steering gear, and is emergency steering gear provided ?

Are efficient uprights, sockets and lashings provided according to rules ?

State particulars of longitudinal subdivision in double bottom

State particulars of Bulwarks and Rails

Approval date of plans and full particulars of arrangements for stowing and securing timber

The scantlings and protective arrangements being in accordance with the Freeboard rules it is submitted that the freeboard be assigned

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the *18<sup>th</sup> January 1933.*



*[Signature]*  
Chief Surveyor.

*[Signature]*  
Secretary.

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