

No. 9039.
Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.Index. No. _____
(For London Office only.)

22 OCT 1932

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey <u>Göteborg.</u>	
having <u>Poop, Bridge & Vele</u>					Date of Survey <u>14th & 19th Oct. 1932</u>	
(Type of Superstructures.)					Name of Surveyor <u>N. Jeth Lydersen</u>	
Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Particulars of Classification <u>* 100 A. 1.</u>	
<u>M/V "FALSTERBO"</u>	<u>Swedish</u> <u>Kristinehamn.</u>	<u>7226</u>	<u>4085</u>	<u>1925-9.</u>	<u>S. S. Sol. No. 1-30</u>	
Moulded Dimensions: Length <u>350'</u> Breadth <u>50'6"</u> Depth <u>28'</u>						
Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>9465</u> tons						
Coefficient of fineness for use with Tables						

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth <u>28'00"</u>	(a) Where D is greater than Table depth (D—Table depth) R =	Moulded Breadth (B) <u>50'5"</u>
Stringer plate (<u>38"</u>)	(b) Where D is less than Table depth (if allowed) (Table depth—D) R =	Standard Round of Beam = $\frac{B \times 12}{50}$ =
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = <u>12'5"</u>
Depth for Freeboard (D) =		Difference
		Restricted to
		Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed	<u>30'67"</u>		<u>8'5"</u>			Standard Height of Superstructure
" overhang	<u>0'00"</u>					" " R.Q.D.
R.Q.D. enclosed	<u>✓</u>					Deduction for complete superstructure
" overhang	<u>✓</u>					Percentage covered $\frac{S}{L} =$
Bridge enclosed... ..	<u>114'83"</u>		<u>8'5"</u>			" " $\frac{S_1}{L} =$
" overhang aft	<u>2'25"</u>					" " $\frac{E}{L} =$
" overhang forward	<u>2'25"</u>					Percentage from Table, Line A.
" Vele enclosed	<u>31'75"</u>		<u>8'5"</u>			(corrected for absence of forecastle (if required))
" overhang	<u>2'75"</u>					Percentage from Table, Line B.
Trunk aft	<u>✓</u>					(corrected for absence of forecastle (if required))
" forward	<u>✓</u>					Interpolation for bridge less than 2L (if required)
Tonnage opening aft ...	<u>✓</u>					Deduction =
" " forward	<u>✓</u>					
Total						

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product	
A.P.		1		<u>45"</u>		1		Mean actual sheer aft =
$\frac{1}{4}$ L from A.P.		4		<u>19'68"</u>		4		Mean standard sheer aft =
$\frac{2}{4}$ L "		2		<u>4"</u>		2		Mean actual sheer forward =
Amidships		4		<u>0</u>		4		Mean standard sheer forward =
$\frac{3}{4}$ L from F.P.		2		<u>10'75"</u>		2		Length of enclosed superstructure forward of amidships =
$\frac{1}{4}$ L "		4		<u>43'5"</u>		4		" " aft of " =
F.P.		1		<u>102"</u>		1		
Total								

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

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.Ft.
Depth to Freeboard Deck =
Summer freeboard =
Moulded draught (d) =Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =
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 = $\frac{\Delta}{40 T}$ inches =

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction		
Deduction for superstructures		
Sheer correction		
Round of Beam correction... ..		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		

Summer Freeboard =

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc	Tropical Fresh Water Freeboard
Fresh Water Line " "	Fresh Water " "
Tropical Line " "	Tropical " "
Winter Line below " "	Winter " "
Winter North Atlantic Line " "	Winter North Atlantic " "
Deckhouses on Flush	

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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	N ^o 1	N ^o 2	N ^o 3	N ^o 4	N ^o 5	N ^o 6	N ^o 7	N ^o 8	N ^o 9
Dimensions of Hatchway	24' x 18'	27' x 18'	20' x 18'	27' x 20'	20' x 18'	27' x 18'	20' x 18'	27' x 18'	20' x 18'
COAMINGS	Height above Deck	34"	9"	9"	34"	25"	34"	25"	34"
	Thickness	44"	44"	44"	44"	44"	44"	44"	44"
	Sides	44"	44"	44"	44"	44"	44"	44"	44"
	Stiffeners	7' x 3' x 40"	44"	44"	44"	44"	44"	44"	44"
	Brackets, Stays	2 off	✓	✓	✓	✓	✓	✓	✓
HATCH BEAMS	Number	5	5	3	5	3	5	3	5
	Spacing	4' 1/2"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"	4' 6"
	Scantling and Sketch	4" x 3" x 44"	4" x 3" x 44"	4" x 3" x 44"	4" x 3" x 44"	4" x 3" x 44"	4" x 3" x 44"	4" x 3" x 44"	4" x 3" x 44"
	Angles	14" x 36"	15" x 36"	16" x 36"	14" x 36"	15" x 36"	16" x 36"	14" x 36"	15" x 36"
	Web	3"	3"	3"	3"	3"	3"	3"	3"
FORE AND AFTERS	Number	—	—	—	—	—	—	—	—
	Spacing	—	—	—	—	—	—	—	—
	Unsupported Lengths	—	—	—	—	—	—	—	—
	Scantling and Sketch	—	—	—	—	—	—	—	—
	Bearing Surface	—	—	—	—	—	—	—	—
HATCH COVERS	Material	Wood	Wood	Wood	Wood	Wood	Wood	Wood	Wood
	Thickness	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
	How fitted	F & A	F & A	F & A	F & A	F & A	F & A	F & A	F & A
	Bearing Surface	3"	3"	3"	3"	3"	3"	3"	3"
	Spacing of Cleats	25"	26"	22"	25"	25"	25"	25"	25"
Number of Tarpaulins									
2									

Particulars of fiddle, funnel and ventilator coamings:—

Motorship - No fiddle

Particulars of Flush Bunker Scuttles:—

None fitted.

Particulars of Companionways:—

Access to crew's quarter through steelhouse on poop having wood doors 5'4" x 2'5" capable of being manipulated from both sides, sill 12" abnd.

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

From 2 off 9" diam 36" x 28" coam.

18" x 36" x 38"

Remainder of mts. constructed in conjunction with derrick posts, high & efficiently stiffened.

Woodplugs & canvas covers are provided.

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

Air pipes on freeboard have openings 19" above deck.

in Wells " 50" " " "

on bridge " 18" " " "

poop " 19" " " "

Canvas covers supplied.

Particulars of Gangway Cargo and Coaling Ports:— None fitted.

Particulars of Scuppers and Sanitary Discharge Pipes:—

Three scuppers from bridge space leading through ship's sides are fitted with internal screw plugs with rubber packings.

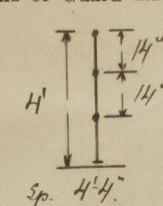
Sanitary Discharge Pipes are fitted with N.R. Valves.

Particulars of Side Scuttles:—

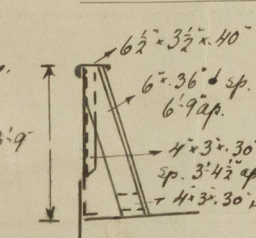
Side lights are fitted with perun attached, hinged, dead lights.

Particulars of Guard Rails:—

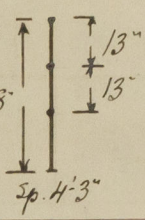
Poop



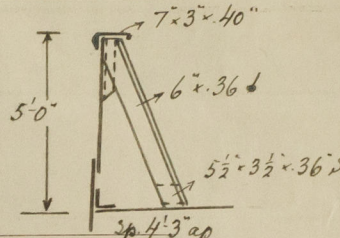
Bridge



Fore



With



Particulars of Gangways, Lifelines, etc.:—

Holes drilled in upper part of staunches in after well to take shackles & lifelines run through these.

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	85'3"	5'0"	54" x 20 1/2"	3	23 1/2	17 1/2
Forward Well	80'0"	5'0"	54" x 20 1/2"	3	23 1/2	16 1/2

State position of each freeing port ... After Well:— 56'4" x 34" x 11'3" bridge 6'4" x 11'3" 38'4" x 6'5" 12' 1/2"

(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:— Three vertical & one horizontal bars.

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	24" x 44"	40"	not accessible - woodlining			None	✓	8'6"
Raised Quarter Deck Bulkhead	✓							
Bridge, After Bulkhead	Vert. pl.	28"	4 1/2" x 2 1/2" x 40"	30"	Takes boundary bars.	ps. 8'3" x 3'1 1/2" ss. 6'5" x 3'1 1/2"	ps. None ss. 22"	8'6"
Bridge, Forward Bulkhead	25 1/2" x 46"	40"	9" x 3" x 52"	30"	Hinged top & bottom	4'1" x 3'1 1/2"	23 5/8"	8'6"
Forecastle Bulkhead	Vert. pl.	28"	4 1/2" x 2 1/2" x 40"	24 1/2"	Takes boundary bars.	8'3" x 3'1 1/2"	None	8'6"
Trunk, Aft	✓							
Trunk, Forward	✓							
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	✓							
Exposed Machinery Casings on Superstructure Decks	None	28"	4 1/2" x 2 1/2" x 30"	27"	Broken at top & carried bel. deck	4'11" x 2'4"	15"	8'0"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	None	28"	4 1/2" x 2 1/2" x 30"	27"	Carried above below deck.	None	✓	8'6"
Deckhouses on Flush Deck Ships	✓							

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

Poop Bulkhead	No openings.
Raised Quarter Deck Bulkhead	✓
Bridge, After Bulkhead	Loose steel plates with hookbolts through plate only, spaced 13" apart. Manip. from outside only.
Bridge, Forward Bulkhead	Hinged steel doors with clips spaced 24" apart. " " " "
Forecastle Bulkhead	Loose steel plates with hookbolts through plate only, spaced 13" apart. " " " "
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	✓
Exposed Machinery Casings on Superstructure Decks	Hinged steel doors cap. of being manip. from both sides.
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓
Deckhouses on Flush Deck Ships	✓

The diagram is a hand-drawn plan view of a ship's deck layout, showing two main decks: the Superstructure Deck and the Freeboard Deck. The ship's hull is elongated with a rounded bow at the right and a stern at the left.

Superstructure Deck:

- Left End (Stern):** Labeled "Crew." with a small rectangular area.
- Middle Section:** Contains a large rectangular area labeled "House" on the left. To its right is a large rectangular area divided into three horizontal sections labeled "Acc.", "Motor casing.", and "Acc.". To the right of this is a smaller rectangular area labeled "No 3.".
- Right End (Bow):** Labeled "Stores." with a small rectangular area.

Freeboard Deck:

- Left End (Stern):** Labeled "Crew." with a small rectangular area.
- Middle Section:** Contains a large rectangular area divided into three horizontal sections labeled "No 5", "No 4", and "Motor casing.". To the right of this is a smaller rectangular area labeled "No 3.".
- Right End (Bow):** Labeled "Store" with a small rectangular area.

Dimensions and Markings:

- Lengths:** 30'-8", 3", 85'-3", 2'-3", 114'-10", 2'-3", 80'-0", 2'-9", 31'-9".
- Markings:** The hull is marked with "H" and "X" symbols. The deck is marked with "H" and "X" symbols.

Truener Deck Cargo Freeboards are not requested

Builder's name and yard number *Messrs. Eriksbergs M.V. Aktieb. Yard N^o 214.*

Names of sister ships *M/s "Stensby", Kallehav, Danish. Yard N^o 221.*

Owners *Engb. Aktieb. Form (S. G. Larsson, Mgr.), Gothenburg.*

Fee *Kr. 350.-* : Received by me