

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

Index No. **3381**
(For London Office only.)

20 AUG 1930

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 **Antwerp**
Date of Survey **Building**
Name of Surveyor **W.E. Wray.**

Ship's Name.	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification.
SONJA	Esbjerg Danish			1930	100 A.1. Class Contemplated
Number in Register Book					

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	294.8	43.66	17.98	1811.25
Length on LOADLINE.	295.0	Frame Depth 9 Ceiling finest Rule " 6 Sheer + .60 .33 x 2 = .66 Deck top Carp bottom finest 18.21	Peak Tanks } 47.53	
CORRECTED DIMENSIONS.	295.0	43.00	18.80	1858.78

Moulded Depth as measured..... **20.4**

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

Addition for Keel below base line for draught record... **1.34** inches.

CORRECTION FOR LENGTH.

Length of Ship on Loadline..... **295**
Length in Table **244**
Difference **51**
Correction for 10ft., Table A. **1.2** Table C. **✓**
× Difference divided by 10 **6.12** (if required.)
If $\frac{1}{10}$ ths length covered divide by 2 **3.06** **+ 3**

CORRECTION FOR IRON DECK.

Proportion covered, if less than $\frac{1}{10}$ ths length covered **.764**
Thickness of usual wood deck, less stringer **3.2** **- 3.2**

CORRECTION FOR ROUND OF BEAM.

Breadth at Gunwale amidships..... **43.5**
Round of Beam **10.5**
Normal round..... **10.9**
Difference **4** **÷ 2 =** **.2**
Proportion of Deck uncovered (Para. 19) **✓**

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

Co-efficient of fineness..... **779**
Any modification necessary { **.02 C.D.B**
[Para. 4 (a) to (e)]*
Co-efficient as corrected **759** **or** **76**

Sheer { Stem..... **79** } $122 \div 2 = 61 \frac{1}{4}$ Mean $\frac{21 \times 41}{36} = 24.5$
at { Sternpost .. **43.2** }
Sheer at $\frac{1}{2}$ of the length from { Stem **44** } $67 \div 2 = 33.5$ Mean
Sternpost **23** }
Gradual mean Sheer **60.91** **67** $33.5 \div 55 = .61$ **60.91**
Standard mean Sheer [Table, Para. 18] **39.2** Correction
Difference..... $21 \times 41 \div 4 = 210.25$ **5.35**
§ If limited as Para. 18 (f) **✓** **- 5.4**

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

Fall in Sheer { $\div 2 =$ **✓**
Para. 18 (d) }
Length uncovered Correction

ALLOWANCE FOR DECK ERECTIONS:—

Freeboard, Table C..... **14.5**
Correction for Length, if required (Para. 12, 13, and 14) **6**
Freeboard by Table A. corrected for sheer, and for length, if required (Para. 12, 13, and 14) } **3.5** **3/4**
Difference **2.0** **3/4**
Percentage as below..... **56.4** **32**
14.11

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11) **✓**
Allowance for Deck Erections **1.2**

	Length.	Length allowed.	Height.
Forecastle.....	33.87	33.87	
Bridge House	165.00	165.00	
† Raised Qr. Dk.....	26.63	26.63	
Poop.....	26.63	26.63	
Total	226.50	226.50	
Length of Ship	295.00	295.00	= 76.43
Corresponding percentage { 56.43 } (Para. 11, 12, 13, and 14)			

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	"	"	"

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† 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.

$$FW = \frac{5263}{40 \times 242} = 5.02$$

Freeboard, Table A **47.33** **3.11** **1/4**
Correction for Sheer **- 5.35** **- 5.35**
41.98 **3.5** **3/4** **6**
Correction for Length **+ 3.06** **+ 3**
45.04 **3.8** **3/4** **9**
Allowance for Deck Erections **- 14.11** **- 1.2**
30.93 **2.6** **3/4** **7**
Correction for Round of Beam..... **✓**
Correction for fall in Sheer (if any)..... **✓**
Correction for Iron Deck (if required) **- 3.2**
2.3 **3/4** **1/2**
Additions for non-compliance with provisions of Para. 11 (d) and (e) †
Other Corrections (if any)

Winter Freeboard **2.3** **3/4**
Summer Freeboard (**2.35**) **3/4** **2.0** **1/4**
Indian Summer Freeboard **1.8** **3/4** **9**
N. A. Winter Freeboard **2.5** **3/4** **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. **+ 1 3/4**

Winter Freeboard from deck line **2.5** **1/4**
Summer " " " **2.1** **3/4** **2**
Indian Summer " " " **1.10** **3/4** **3/4**
N. A. Winter " " " **2.7** **1/4**

† 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 draft forward and aft, should be reported.

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Do all the frames extend to the top height in the Poop? *Yes* Raised Quarter Deck? *Yes* Bridge House? *Yes* Forecastle? *Yes*
 To what height do the Reverse Frames extend? *Bulwark 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 *Storm board full height in riveted channels*
 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 steel doors*
 What is the thickness of the Bridge Front plating? *.40* and Coaming plate? *plated vertically*
 Give scantlings and spacing of the Stiffeners *B.A. 8x3x35 spaced 30' apart*
 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? *Storm boards full height in riveted channels*
 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? *By a bridge*
 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
 What is the height of the exposed Casings? *7' 6"* 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 Size.		No. 1. 25.0x18.0		No. 2. 30.0x18.0		No. 3. 30.0x18.0		No. 4. 25.0x18.0	
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	4.0		2.8				4.0	
	Sides	.44		.44		Same as No 2		.44	
	Ends	.44		.44				.44	
SCANTLING WEB PLATES.	Number	4		5				4	
	Section and Scantlings	Plat 16 1/4 x 36 } 2 in		Plat 12 1/4 x 32 } 3 in		Same as No 2		Same as No 1	
	Material	T Bar 6x4x60		T Bar 6x4x60					
* FORE AND AFTERS.	Number	1		1				1	
	Section and Scantlings	Plat 16 1/4 x 36 } 2 in		Plat 12 1/4 x 32 } 2 in		Same as No 2		Same as No 1	
	Material	T Bar 6x4x60		T Bar 6x4x60					
HATCHES Thickness		2 1/2		2 1/2		2 1/2		2 1/2	
Remarks		Good		Good		Good		Good	

* 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 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? *Yes*

Strake between Main and Bridge Sheerstrakes? *Yes*

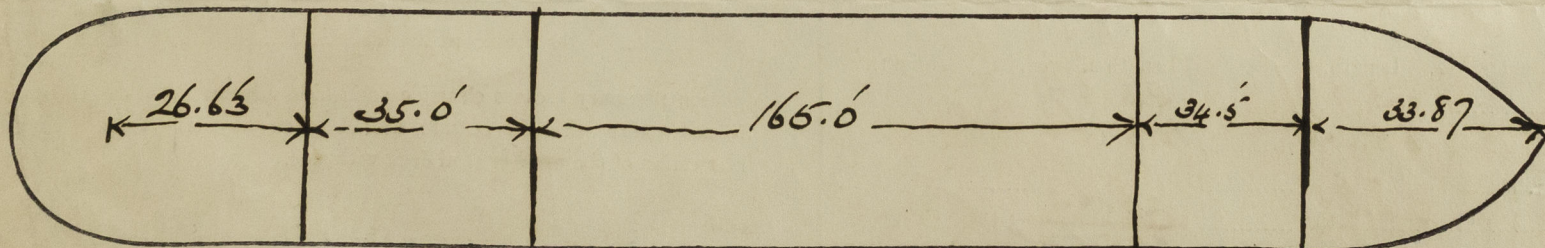
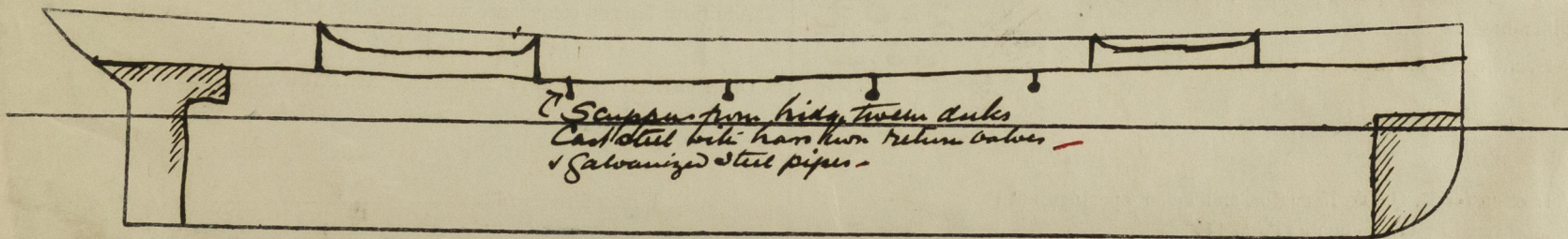
Delete the words *The Crew are, are not, berthed in the bridge house.* *Yes*
 that do not apply *The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.* *Yes*

Length of Bulwarks in well *Fore well 34' 6" After well 35' 0"*

Area of Freeing Ports required by Para. 11 (e) each side of vessel = *9.95* *10.00* Sq. ft.

Ft. Tenth. Ft. Tenth. No. Freeing Ports (each side of vessel) = *12.31* *12.31* Sq. ft.

3.25 x 2.25 x 2 1/2 *2.50 x 2.00 x 2 1/2* Total deficiency or excess = *2.36* *2.31* 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.
 Displacement *tonnes* *as from by the Builder at 18 1/2 Summer draft 5250 + 26.26*

State any special features in the construction of the Vessel

Builder's name and yard number *Res. Antwerp Engineering Co. S.A. No 114*

Names of sister vessels

Owners *Dampskibsselskabet Danica Ck. Andersen Aps.*

Address *Copenhagen*

Fee £ *will be charged* *7.5. Repent.* Received by me



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