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Antwerp Engineering Co S.A. N° 83

Index No. 13260
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

31457
- OCT 1924

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER ~~FRESH DECKED, OR WITH~~
TOPMALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, ~~OR~~
~~WITH TOPMALLANT 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 J. D. Herbert.

Ship's Name. **RUBENS**
Port of Registry and Nationality. Antwerp Belgian
Official Number. 1937-42
Gross Tonnage. 1924.
Date of Build. 1924.
Particulars of Classification. 100 A Class Contemplated.
Number in Register Book 90522 Suppl.

Registered dimensions from Ship's Register.	LENGTH.	BREADTH.	DEPTH.	UNDER DECK TONNAGE.
	277.56	40.20	18.12	1647.45
Length on LOADLINE.	278.58	Frame Depth 8 1/2 Rule " 5 - 3 1/2 - .58.	Ceiling + .20 Sheer + .52 To tank top 18.5 Leve tank	Peak Tanks 33.79
RECTED DIMENSIONS.	278.58	39.62	19.22	1681.24

Moulded Depth as measured..... 20.7 1/2"
Addition for Keel below base line for draught record..... 78 1/2" inches.

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

Co-efficient of fineness..... .79
Any modification necessary {
[Para. 4 (a) to (e)]* }
Co-efficient as corrected77.

CORRECTION FOR LENGTH.
Length of Ship on Loadline..... 278.58
Length in Table 247.5
Difference 31.08
Correction for 10ft., Table A. 1.2 - Table C. .6
× Difference divided by 10 3.729 (if required.) 1.86
If 1/10ths length covered divide by 2 + 3 3/4 + 1 3/4

Sheer { Stem..... 76 } 114 ÷ 2 = 57 Mean
at { Sternpost... 38 }
Sheer at 1/2 of the length from { Stem 41.75 } 62.50 ÷ 2 = 31.25 Mean
{ Sternpost 20.75 }
Gradual mean Sheer 56.81 - 55 = 56.81
Standard mean Sheer [Table, Para. 18] 37.85
Difference..... 18.96 ÷ 4 = 4.76
§ If limited as Para. 18 (f) - 4 3/4

CORRECTION FOR IRON DECK.
Proportion covered, if less than 1/10ths length covered 394
Thickness of usual wood deck, less stringer 3 1/2 = 1.379
= - 1 1/2

Rise in Sheer { At front of bridge house.....
from amidships }
[Para. 18 (e)] { At after end of forecastle
Fall in Sheer {
Para. 18 (d) } ÷ 2 =
Length uncovered Correction

CORRECTION FOR ROUND OF BEAM.
Breadth at Gunwale amidships..... 40.0
Round of Beam 10
Normal round..... 10
Difference ÷ 2 =
Proportion of Deck uncovered (Para. 19)

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

ALLOWANCE FOR DECK ERECTIONS :—
Freeboard, Table C..... 11.6
Correction for Length, if required (Para. 12, 13, and 14) + 1 3/4
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 12, 13, and 14) }
Difference 3 - 11 3/4
Percentage as below..... 24.62
689
- 7

Freeboard, Table A 4 - 0 3/4
Correction for Sheer - 4 3/4
Correction for Length 3 - 8
+ 3 3/4
Allowance for Deck Erections 3 - 11 3/4
- 7
Correction for Round of Beam..... 3 - 4 3/4
Correction for fall in Sheer (if any).....
Correction for Iron Deck (if required) - 1 1/2
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

Winter Freeboard 3 - 3 3/4
Summer Freeboard 3 - 0 3/4
Indian Summer Freeboard 2 - 9 3/4
N. A. Winter Freeboard 3 - 5 1/4
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the steel deck with side. 1 1/2

	Length.	Length allowed.	Height.
Forecastle.....	23.00	25.50	7.5
Bridge House.....	58.50	62.50	7.0
† Raised Qr. Dk.....			
Poop.....	21.62	21.62	7.0
Total		109.62	
Length of Ship	278.58		
Corresponding percentage { (Para. 12, 13, and 14) }	24.62		

Winter Freeboard from deck line 3 - 4 3/4
Summer " " " 3 - 1 3/4
Indian Summer " " " 2 - 10 3/4
N. A. Winter " " " 3 - 6 3/4
Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the steel deck with side. 1 1/2

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, (Steel) Deck :—
Fresh Water Line above centre of Disc 4 1/2
Indian Summer Line " " " 3
Winter Line below " " 3
Winter North Atlantic Line " " " 5

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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 vessels having poops and forecastles, it means the sheer measured at points distant from the vessel's length from stem and stern-post.

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? *Bulk Angle Frames*
 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 *Steel door hinges*
 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 secured by dogs the bolts for which pass through*
 What is the thickness of the Bridge Front plating? *3/16* and Coaming plate? *1/2*
 Give scantlings and spacing of the Stiffeners *Bulk Angle 7 x 3 x 5/4 spans 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? *Hinged plates secured by hook bolts*
 Is the Forecastle at least as high as the main or top-gallant rail? *Yes* Has the Forecastle an efficient Iron ~~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? *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 *7.0 about Bridge*
 What is the height of the exposed Casings? *7.0 about 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 Size.	No. 1 34'-11" x 28'-0"		No. 2 30'-11" x 28'-0"		No. 3 33'-5" x 28'-0"		No. 4 28'-5" x 28'-0"		2 Escape Hatchways 2'-6" x 2'-0"	
Item.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING. Height above top of DECK	48"	48"	48"	48"	48"	48"	48"	48"	9"	
Thickness {	Sides.....	.46	.50	.50	.50	.50	.46	.46	.46	
	Ends.....	.44	.44	.44	.44	.44	.44	.44	.46	
WEB PLATES. {	Number	6	5	5	5	5	4	4	None	
	Section and Scantlings	23 x 40 at 28' 0" 23 x 40	23 x 40 23 x 40	23 x 40 23 x 40	Same as No. 2	23 x 40 23 x 40	23 x 40 23 x 40	23 x 40 23 x 40	None	
	Material	1/2 x 3/16 at 28' 0" 1/2 x 3/16	1/2 x 3/16 1/2 x 3/16	1/2 x 3/16 1/2 x 3/16	1/2 x 3/16 1/2 x 3/16	1/2 x 3/16 1/2 x 3/16	1/2 x 3/16 1/2 x 3/16	1/2 x 3/16 1/2 x 3/16	None	
* FORE AND AFTERS. {	Number	None	None	None	None	None	None	None	None	
	Section and Scantlings	None	None	None	None	None	None	None	None	
	Material	None	None	None	None	None	None	None	None	
HATCHES 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	Steel 40	
Remarks.....	Good		Good		Good		Good		secured by bolts spans about 8' 1/2" W.T. Joint.	

* 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? _____ Strake between Main and Bridge Sheerstrakes? _____

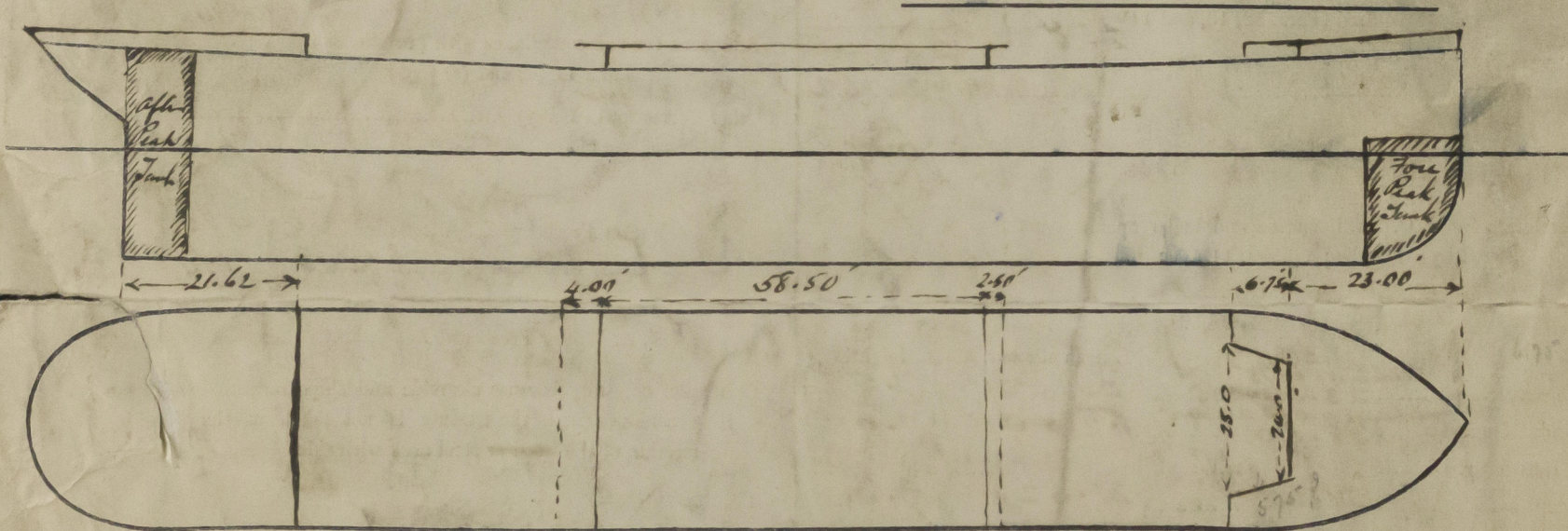
Delete the words { The Crew are, are not, berthed in the bridge house.
 that do not apply { The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

Length of Bulwarks in well _____

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

Ft. Tenths.	Ft. Tenths.	No.	Freeing Ports (each side of vessel)	=	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 *Constructed as a self-stimulating vessel in accordance with plans approved 27. January 1922.*

Builder's name and yard number *Antwerp Engineering Co. S.A. Hoboken*

Names of sister vessels *To Belgian Ant Rpt. 12142 + To Dunston Ant Rpt. 13041.*

Owners *Compton Charbonnier Maritime S.A.*

Address *Antwerp.*

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Received by me



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