

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Index. No. **29697**  
(For London Office only.)

26 NOV 1932

Computation of Freeboard for Steamer, Sailing Ship, Tanker  
having a Fore Castle deck and a Bridge, Poop deck combined Passenger steamer  
(Type of Superstructures.)

Port of Survey Amsterdam  
Date of Survey 10 November 32  
Name of Surveyor H. P. Jonker  
Particulars of Classification 100 A1  
S.S. Rtn. No 3-8-21  
S.S. Ham. No 2-29.

Ship's Name <b>S.S. VENEZUELA</b>	Nationality and Port of Registry <b>Dutch AMSTERDAM</b>	Official Number <b>6355</b>	Gross Tonnage <b>1906</b>	Date of Build <b>1906</b>
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Moulded Dimensions: Length 125.880 Breadth 15.400 Depth 9.630 <sup>24</sup>/<sub>39</sub> m  
Moulded displacement at moulded draught = 85 per cent. of moulded depth 12220 <sup>16</sup>/<sub>125</sub> tons  
Coefficient of fineness for use with Tables .444

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth ... <u>9.630</u> <sup>24</sup> / <sub>39</sub> <u>m</u>	(a) Where D is greater than Table depth (D - Table depth) R = <u>8.33(9.664 - 8.392)30 = 318</u>	Moulded Breadth (B) <u>15.400</u> <sup>39</sup> / <sub>15</sub> <u>m</u>
Stringer plate ... <u>1912</u> <sup>20</sup> / <sub>1912</sub> <u>m</u>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{15.400 \times 12}{50} = 308$
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) = \frac{1}{5} \times .2284 = 14$	If restricted by superstructures	Ship's Round of Beam = <u>305</u> <sup>3</sup> / <sub>15</sub> <u>m</u>
Depth for Freeboard (D) = <u>9.664</u>		Difference <u>3</u>
		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{3^2}{4} \times .2524 = \text{NIL}$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S) <u>m</u>	Equivalent Enclosed Length (S <sub>1</sub> ) <u>m</u>	Height <u>m</u>	Height Correction	Effective Length (E) <u>m</u>
Poop enclosed ...					
" overhang ...					
R.Q.D. enclosed	<u>79.250</u>	<u>79.25</u>	<u>2413</u>	-	<u>79.25</u>
" overhang			<u>+75 wood</u>		
Bridge enclosed...					
" overhang aft ...					
" overhang forward	<u>10.140</u>	<u>14.40</u>	<u>2340</u>	-	<u>14.40</u>
P'cle enclosed <u>R.PEN.</u>	<u>10.140</u>		<u>+75 wood</u>		
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward					
Total ...	<u>94.12</u>	<u>94.10</u>			<u>94.10</u>

Standard Height of Superstructure 2290

" " R.Q.D. 1067

Deduction for complete superstructure 1067

Percentage covered  $\frac{S}{L} = \frac{44.16}{74.76} = 59.1\%$

" "  $\frac{S_1}{L} = \frac{74.76}{74.76} = 100\%$

" "  $\frac{E}{L} = \frac{74.76}{74.76} = 100\%$

Percentage from Table, Line A. 68.85

(corrected for absence of forecastle (if required))

Percentage from Table, Line B.

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = -735

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate <u>m</u>	Effective Ordinate	S	M	Product
A.P. ...	<u>1302</u>	1		<u>1302</u>	<u>991</u>	<u>1172</u>	1		<u>1172</u>
$\frac{1}{4}L$ from A.P. ...	<u>579</u>	4		<u>2316</u>	<u>294</u>	<u>455</u>	4		<u>1820</u>
$\frac{2}{4}L$ " ...	<u>144</u>	2		<u>288</u>	<u>51</u>	<u>114</u>	2		<u>228</u>
Amidships ...		4			<u>0</u>		4		
$\frac{3}{4}L$ from F.P. ...	<u>289</u>	2		<u>578</u>	<u>350</u>	<u>350</u>	2		<u>700</u>
$\frac{1}{4}L$ " ...	<u>1157</u>	4		<u>4628</u>	<u>1070</u>	<u>1102</u>	4		<u>4408</u>
F.P. ...	<u>2605</u>	1		<u>2605</u>	<u>2388</u>	<u>2388</u>	1		<u>2388</u>
Total ...				<u>11717</u>					<u>10716</u>

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{1001}{18} (.75 - .3858) = +20$

If limited on account of midship superstructure.

Mean actual sheer aft = Deficient  
Mean standard sheer aft =Mean actual sheer forward = Deficient  
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = } sheer deficient

" " aft of " = }

3 Standard 867 Actual 1050

3 3471 3306

1 2605 2388

6943 6744 = .971

6943

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

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 9.7288 <sup>24</sup>/<sub>39</sub> m

Summer freeboard = 1.720 <sup>24</sup>/<sub>39</sub> m

Moulded draught (d) = 8.0088 <sup>24</sup>/<sub>39</sub> m

## Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{48}$  inches = 19 cms

Addition for Winter North Atlantic Freeboard (if required) =

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = 12120 \text{ m}^3$

Tons per inch immersion at summer load water line

$T = 16.3$

Deduction =  $\frac{\Delta}{40T}$  inches= 19 cms

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient  $\frac{777+68}{1.36} = 1.457$ Depth Correction ... 318Deduction for superstructures ... 735Sheer correction ... 20Round of Beam correction ... 3Correction for Thickness of Deck amidships 6458Other corrections, scantlings, etc. ... 402Summer Freeboard = 1715

## SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, (Wood, Steel Deck :-)

Tropical Fresh Water Line above Centre of Disc ...	<u>36 cms</u>
Fresh Water Line " " ...	<u>19</u>
Tropical Line " " ...	<u>17</u>
Winter Line below " " ...	<u>12</u>
Winter North Atlantic Line " " ...	<u>1</u>

Tropical Fresh Water Freeboard ... 172 cmsFresh Water " " ... 136Tropical " " ... 153Winter " " ... 155Winter North Atlantic " " ... 189

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# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS ON FREE BOARD DECK ON BRIDGE DECK									
IN FORWARD WELL									
Description of Hatchway	N1	N2	N2A	N3	N4				
Dimensions of Hatchway	15'9" x 12'0"	29'8" x 15'0"	15'9" x 15'0"	22'6" x 15'0"	15'9" x 14'0"				
COAMINGS	Height above Deck	3'0"	3'0"	3'0"	3'0"				
	Thickness Sides	5/8"	5/8"	5/8"	5/8"				
	Stiffeners	3/4" x 3 1/2" x 44"	3/4" x 3 1/2" x 44"	3/4" x 3 1/2" x 44"	3/4" x 3 1/2" x 44"				
	Brackets, Stays	none	none	none	none				
HATCH BEAMS	Number	1	3	2	1				
	Spacing	4'-10 1/2"	4'-3"	4'-10 1/2"	4'-10 1/2"				
	Scantling and Sketch	3" x 3" x 40"	same	same	same				
	Bearing Surface	3/4" x 40"	same	same	same				
FORE AND AFTERS	Number	3	3	3	3				
	Spacing	3'-0"	3'-9"	3'-9"	3'-6"				
	Unsupported Lengths	4'-10 1/2"	4'-3"	4'-10 1/2"	4'-6"				
	Scantling and Sketch	4" x 10" pine	same	same	same				
HATCH COVERS	Material	pine	same	same	same				
	Thickness	2 1/2"	same	same	same				
	How fitted	athwartship	same	same	same				
	Bearing Surface	4"	same	same	same				
Spacing of Cleats	24"	same	same	same	same				
Number of Tarpaulins	two	same	same	same	same				
*Are wood fore and afters steel shod at all bearing surfaces? <b>yes</b> Are battens and wedges efficient and in good condition? <b>yes</b> Are tarpaulins in good condition and in accordance with rule requirements? <b>yes</b> Are lashings provided in accordance with rule requirements? <b>yes</b>									

Particulars of fiddle, funnel and ventilator coamings:— Fiddle hatches on casing top are provided with steel hinged covers. Engine room skylight of steel strongly constructed. Fiddle and funnel ventilators in efficient condition.

Particulars of Flush Bunker Scuttles:— Two flush bunker scuttles on bridge deck fitted with bayonet joints. COMPANIONWAYS ON FREE BOARD DECK

In forward well steel companion way to tween decks strongly constructed steel door 5'4" x 3'5" sill 3'3" above wood deck, door closed and operated from both sides. In deck house in fore castle space to tween decks, wood doors 6'9" x 2'4" x 1 1/2" leaf, sill 4" above wood deck, doors closed and operated from both sides. In gangway fore castle space one roller 4'-0" x 3'-0" hinged cover 2" pine flush with wood deck, no battening down arrangement fitted.

Particulars of Companionways:— On Poop deck: to tween decks, steel deck house, strongly constructed doors 6'8" x 2'4" x 1 1/2" leaf, 6'8" x 3'7" x 1 1/2" leaf and 4'2" x 4'9" x 1 1/2" leaf sill 9" above wood deck doors closed and operated from both sides.

On Bridge deck: to bridge space and tween decks, steel deck house, strongly constructed, doors 6'8" x 4'9" x 1 1/2" leaf, sill 8 1/2", to engine room wood door 6'8" x 3'4" x 1 1/2" leaf sill 12" above wood deck to stoke hold steel door 7'1" x 3'2" sill 4" above wood deck, doors closed and operated from both sides. Steel companion way on top of N°3 Hatchway wood door 2'8" x 6'9" x 1 1/2" leaf sill 21" door closed and operated from both sides.

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:— On fore castle deck to holds and tween decks ventilators 18" x 18" diam x .40 and 18" x 12" diam x .32.

On freeboard deck in forward well vent: 26" x 18" diam x .40, 21" x 12" diam x .32 & 18" x 7 1/2" diam x .32. On Bridge & Poop deck, 20" x 18" diam x .40, 26" x 12" diam x .32 and 16" x 5" diam x .32. Gooseneck ventilators to tween decks on Bridge, Poop & Fore castle deck 11" x 9" x 3 1/2" diam. All ventilators are provided with wooden hatches and canvas covers all as required. Gooseneck vent: are provided with canvas covers for closing the openings.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:— Airpipes to tanks on superstructure decks 30" x 5" diam and 18" x 2 1/2" diam. Airpipes on freeboard deck in forward well 36" x 4" diam, 24" x 6" diam, 30" x 2" diam and 26" x 2" diam. Airpipes are provided with steel hinged covers or canvas covers for closing the openings.

Particulars of Gangway Cargo and Coaling Ports:— On SB & PS on each side between freeboard & bridge deck 5" W.T. hinged coaling ports strongly constructed, height above freeboard deck edge 16".

VENEZUELA

Particulars of Scuppers and Sanitary Discharge Pipes — Freeboard deck in way of forward well discharged through ship side by scupper pipes 3 1/2" diam + 4'-0" below freeboard deck. All sanitary discharge pipes, discharged through ship side below freeboard deck and are provided with storm valves all as required.

Particulars of Side Scuttles: Side scuttles to spaces below Poop and Bridge deck are fitted with portable deadlights. Side scuttles to spaces below freeboard deck and fore castle deck are fitted with deadlights, permanently attached in their proper position.

Particulars of Guard Rails:— Open rail on fore castle deck. On Bridge deck 46" high. 2" pipe. 4" rails. 9 1/2" wide.

Particulars of Gangways, Lifelines, etc.:— No gang way or life lines etc. fitted in forward well. Suitable provision is made for lifelines.

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						
Forward Well	93'-6" = 28,490"	4'-0"	1.83 x 1.5 2.9 x 1.5	1 4	20 ft <sup>2</sup>	19 ft <sup>2</sup> 8.7
State position of each freeing port ... After Well:— height above deck edge 12" (F. and A. position and height above deck edge) Forward Well:— height above deck edge 12" State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— shutters fitted. Additional area where sheer is less than standard.						

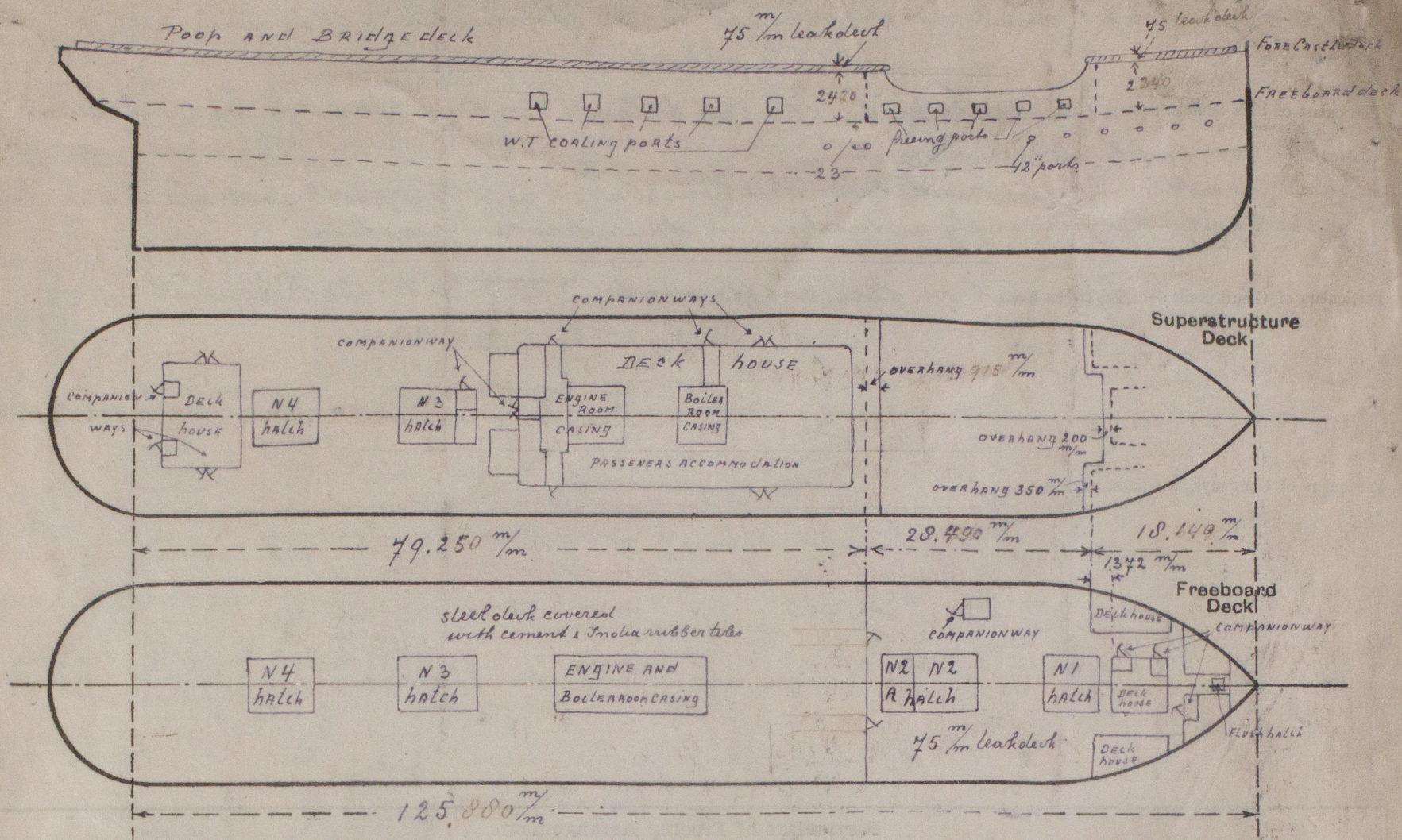
Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead								
Raised Quarter Deck Bulkhead								
Bridge, After Bulkhead								
Bridge, Forward Bulkhead	15" x 44"	.40	5" x 3 1/2" x .50	30	brackets	3-4 x 3-1	40"	8'-0"
Forecastle Bulkhead	19" x 3 1/2" x 48"	.30	2 1/2" x 2 1/2" x .32	30	none	3-4 1/2 x 4'-6"	✓	7'-6"
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks								
Exposed Machinery Casings on Superstructure Decks	.40	.40	1 3/8" x 2 1/2" x .40	30	continuous	none	✓	2'4"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on Flush Deck Ships								

Particulars of Closing Appliances (state if capable of being manipulated from both sides).	
Poop Bulkhead	✓
Raised Quarter Deck Bulkhead	✓
Bridge, After Bulkhead	✓
Bridge, Forward Bulkhead	✓
Forecastle Bulkhead	open
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	✓
Exposed Machinery Casings on Superstructure Decks	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓
Deckhouses on Flush Deck Ships	✓

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Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, 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:—



$$\begin{aligned} \text{Focle 6/2m} \quad \frac{L}{10} &= 12.59 \times .971 = 12.22 \\ &4.37 \times .5 = 2.18 \\ &16.96 \quad 14.40 \end{aligned}$$

State any special features in the construction of the ship:— *The vessel has been examined afloat.*

*Displacement scale sent herewith*

Builder's name and yard number *Reichardt & Schiffswerk Hamburg*

Names of sister ships

Owners *Koninkl Nederl Stoomv. Maats.*

Fee £ *17* : — : —  
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