

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Index. No. 28031.  
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

Port of Survey \_\_\_\_\_

(Type of Superstructures.) \_\_\_\_\_

Date of Survey 23-10-31.

Ship's Name

Nationality and Port of Registry  
Antilles  
French.

Official Number

Gross Tonnage

Date of Build

Name of Surveyor

Particulars of Classification +100A-1

Dimensions: Length 300.0 Breadth 43.6 Depth 24.46  
displacement at moulded draught = 85 per cent. of moulded depth  
of fineness for use with Tables \_\_\_\_\_ tons

Depth for Freeboard (D)

Depth correction

Round of Beam correction

Depth ... .. 24.46

(a) Where D is greater than Table depth  
(D - Table depth) R =

Moulded Breadth (B)

... .. .04

$(24.50 - 20.00) \times 2.308 = +10.39$

Standard Round of Beam =  $\frac{B \times 12}{50} = 10.46$

Exposed deck

(b) Where D is less than Table depth (if allowed)  
(Table depth - D) R =

Ship's Round of Beam = 10.75

... .. ✓

Difference = .29

Depth for Freeboard (D) = 24.50

If restricted by superstructures

Restricted to

Correction =  $\frac{\text{Diff}^2}{4} \times (1 - \frac{S_1}{L}) = \frac{.29^2}{4} \times .5212 = -.02$

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Used ... ..	<u>28.16</u>	<u>28.16</u>	<u>7'6"</u>	<u>✓</u>	<u>28.16</u>
Change ... ..					
Enclosed ... ..					
Overhang ... ..					
Enclosed ... ..	<u>81.00</u>	<u>81.00</u>	<u>7'0"</u>	<u>✓</u>	<u>81.00</u>
Overhang aft ... ..					
Overhang forward ... ..	<u>2.25</u>	<u>1.12</u>			<u>1.12</u>
Used ... ..	<u>33.33</u>	<u>33.33</u>	<u>7'0"</u>	<u>✓</u>	<u>33.33</u>
Change ... ..					
Used ... ..					
Change ... ..					
Used ... ..					
Change ... ..					
Used ... ..					
Change ... ..					
Used ... ..					
Change ... ..					
Used ... ..	<u>144.74</u>	<u>143.61</u>			<u>143.61</u>

Standard Height of Superstructure 6'-6"

" " R.Q.D. \_\_\_\_\_

Deduction for complete superstructure 35.33

Percentage covered  $\frac{S}{L} = 48.25\%$

" "  $\frac{S_1}{L} = 47.88\%$

" "  $\frac{E}{L} = 47.88\%$

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. 34.19

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required) .27L

Deduction =  $35.33 \times .3419 = -12.08$

*It is assumed that the longitudinal bolted plates in the bridge front will be made sufficient for the full allowance.*

### SHEER CORRECTION.

Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
<u>40.00</u>	<u>1</u>	<u>40.00</u>	<u>24.00</u>	<u>24.00</u>	<u>1</u>	<u>24.00</u>
<u>17.80</u>	<u>4</u>	<u>71.20</u>	<u>1.50</u>	<u>1.50</u>	<u>4</u>	<u>6.00</u>
<u>4.40</u>	<u>2</u>	<u>8.80</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>-</u>
<u>-</u>	<u>4</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>4</u>	<u>-</u>
<u>8.80</u>	<u>2</u>	<u>17.60</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>-</u>
<u>35.60</u>	<u>4</u>	<u>142.40</u>	<u>9.00</u>	<u>9.00</u>	<u>4</u>	<u>36.00</u>
<u>80.00</u>	<u>1</u>	<u>80.00</u>	<u>72.00</u>	<u>72.00</u>	<u>1</u>	<u>72.00</u>
		<u>360.00</u>				<u>138.00</u>

Mean actual sheer aft = defective  
Mean standard sheer aft = \_\_\_\_\_

Mean actual sheer forward = defective  
Mean standard sheer forward = \_\_\_\_\_

Length of enclosed superstructure forward of amidships = .126L

" " aft of " = .144L

Difference between sums of products  $(\frac{75-S}{2L}) = \frac{222}{18} \times .5088 = +6.27$

account of midship superstructure. ✓

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

Tropical Freeboard.

Deduction for Fresh Water.

TABULAR FREEBOARD corrected for Flush Deck (if required)

Winter and Winter North Freeboard.

Displacement in salt water at summer load water line

Correction for coefficient

Freeboard Deck = 24.50

$\Delta =$

Freeboard = 4.25

Tons per inch immersion at summer load water line

Moulded draught (d) = 20.25

T =

Tropical freeboard and addition for

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

ard =  $\frac{d}{4}$  inches = 5"

er North Atlantic Freeboard (if

2+5 = 7"

	+	-
Depth Correction ... ..	<u>10.39</u>	<u>-</u>
Deduction for superstructures ... ..	<u>6</u>	<u>12.08</u>
Sheer correction ... ..	<u>6.27</u>	<u>-</u>
Round of Beam correction ... ..	<u>-</u>	<u>.04</u>
Correction for Thickness of Deck amidships ... ..	<u>-</u>	<u>-</u>
Other corrections, scantlings, etc. ... ..	<u>-</u>	<u>-</u>
	<u>17.06</u>	<u>12.12</u>
Summer Freeboard =	<u>51.11</u>	<u>+ 4.84</u>

WINTER 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 " " ... ..

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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	...	...	...	...	...	...	...	...	...
Dimensions of Hatchway	...	...	...	...	...	...	...	...	...
COAMINGS	}	Height above Deck	...	...	...	...	...	...	...
		Thickness	Sides	...	...	...	...	...	...
			Ends	...	...	...	...	...	...
		Stiffeners	...	...	...	...	...	...	...
		Brackets, Stays	...	...	...	...	...	...	
HATCH BEAMS	}	Number	...	...	...	...	...	...	...
		Spacing	...	...	...	...	...	...	...
		Scantling and Sketch		...	...	...	...	...	...
		Bearing Surface	...	...	...	...	...	...	...
FORE AND AFTERS	}	Number	...	...	...	...	...	...	...
		Spacing	...	...	...	...	...	...	...
		Unsupported Lengths		...	...	...	...	...	...
		Scantling* and Sketch		...	...	...	...	...	...
		Bearing Surface	...	...	...	...	...	...	
HATCH COVERS	}	Material	...	...	...	...	...	...	...
		Thickness	...	...	...	...	...	...	...
		How fitted	...	...	...	...	...	...	...
		Bearing Surface	...	...	...	...	...	...	...
Spacing of Cleats	...	...	...	...	...	...	...	...	
Number of Tarpaulins	...	...	...	...	...	...	...	...	

\*Are wood fore and afters steel shod at all bearing surfaces?  
 Are battens and wedges efficient and in good condition?  
 Are tarpaulins in good condition and in accordance with rule requirements?  
 Are lashings provided in accordance with rule requirements?

Particulars of fiddley, funnel and ventilator coamings :-

Particulars of Flush Bunker Scuttles :-

Particulars of Companionways :-

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

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

Particulars of Gangway Cargo and Coaling Ports :-

Particulars of Scuppers and Sanitary Discharge Pipes :-

Particulars of Side Scuttles :-

Particulars of Guard Rails :-

Particulars of Gangways, Lifelines, etc. :-

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	...	...	...	...	...	...

State position of each freeing port ... } After Well :-  
 (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 :-  
 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	...	...	...	...	...	...	...	...
Forecastle Bulkhead	...	...	...	...	...	...	...	...
Trunk, Aft	...	...	...	...	...	...	...	...
Trunk, Forward	...	...	...	...	...	...	...	...
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	...	...	...	...	...	...	...	...

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	...
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	...