

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

*W.A.*

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having \_\_\_\_\_

(Type of Superstructures.)

Ship's Name <b>MIRAFLORES</b>	Nationality and Port of Registry <i>Espagnol Bilbao</i>	Official Number <i>?</i>	Gross Tonnage <del>2107</del> <b>3209</b>	Date of Build <b>1919-1</b>
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Port of Survey *Brest*

Date of Survey *16 Mars 1933*

Name of Surveyor *E. Gouillard*

Particulars of Classification *+ 100 A. 1131.  
8x Blo. No. 3-331*

Moulded Dimensions: Length \_\_\_\_\_ Breadth \_\_\_\_\_ Depth \_\_\_\_\_

Moulded displacement at moulded draught = 85 per cent. of moulded depth \_\_\_\_\_ tons

Coefficient of fineness for use with Tables \_\_\_\_\_

<p><b>Depth for Freeboard (D)</b></p> <p>Moulded depth ... ..</p> <p>Keel plate ... ..</p> <p>Nothing on exposed deck</p> <p><math>T \left( \frac{L-S}{L} \right) =</math> _____</p> <p>Depth for Freeboard (D) = _____</p>	<p><b>Depth correction</b></p> <p>(a) Where D is greater than Table depth (D-Table depth) R = _____</p> <p>(b) Where D is less than Table depth (if allowed) (Table depth-D) R = _____</p> <p>If restricted by superstructures _____</p>	<p><b>Round of Beam correction</b></p> <p>Moulded Breadth (B) _____</p> <p>Standard Round of Beam = <math>\frac{B \times 12}{50} =</math> _____</p> <p>Ship's Round of Beam = _____</p> <p>Difference _____</p> <p>Restricted to _____</p> <p>Correction = <math>\frac{Diff}{4} \times \left( 1 - \frac{S_1}{L} \right) =</math> _____</p>
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**DEDUCTION FOR SUPERSTRUCTURES.**

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Roop enclosed ... ..					
"  overhang ... ..					
R.Q.D. enclosed ... ..					
"  overhang ... ..					
Bridge enclosed ... ..					
"  overhang aft ... ..					
"  overhang forward ... ..					
"  enclosed ... ..					
"  overhang ... ..					
Trunk aft ... ..					
"  forward ... ..					
Tonnage opening aft ... ..					
"  forward ... ..					
Total ... ..					

Standard Height of Superstructure \_\_\_\_\_

  "  "  R.Q.D. \_\_\_\_\_

Deduction for complete superstructure \_\_\_\_\_

Percentage covered  $\frac{S}{L} =$  \_\_\_\_\_

  "  "   $\frac{S_1}{L} =$  \_\_\_\_\_

  "  "   $\frac{E}{L} =$  \_\_\_\_\_

Percentage from Table, Line A. (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 = \_\_\_\_\_

**SHEER CORRECTION.**

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
... ..		1				1	
"  A.P. ... ..		4				4	
"  ... ..		2				2	
"  M.P. ... ..		4				4	
"  F.P. ... ..		2				2	
"  ... ..		4				4	
"  ... ..		1				1	
Total ... ..							

Mean actual sheer aft = \_\_\_\_\_

Mean standard sheer aft = \_\_\_\_\_

Mean actual sheer forward = \_\_\_\_\_

Mean standard sheer forward = \_\_\_\_\_

Length of enclosed superstructure forward of amidships = \_\_\_\_\_

  "  "  aft of "  = \_\_\_\_\_

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

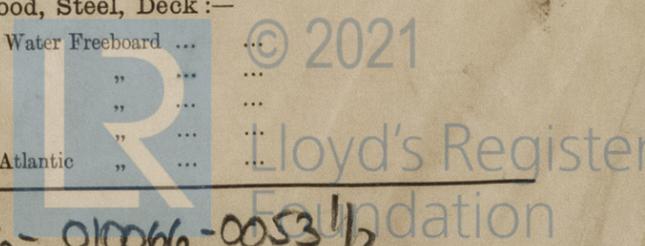
If limited on account of midship superstructure. \_\_\_\_\_

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

<p><b>Correction for Tropical Freeboard.</b></p> <p><b>Correction for Winter and Winter North Atlantic Freeboard.</b></p> <p>Depth to Freeboard Deck = _____ Ft.</p> <p>Summer freeboard = _____</p> <p>Moulded draught (d) = _____</p> <p>Correction for Tropical freeboard and addition for winter freeboard = <math>\frac{d}{4}</math> inches = _____</p> <p>Correction for Winter North Atlantic Freeboard (if required) = _____</p>	<p><b>Deduction for Fresh Water.</b></p> <p>Displacement in salt water at summer load water line _____</p> <p><math>\Delta =</math> _____</p> <p>Tons per inch immersion at summer load water line _____</p> <p>T = _____</p> <p>Deduction = <math>\frac{\Delta}{40T}</math> inches = _____</p>	<p><b>TABULAR FREEBOARD corrected for Flush Deck (if required)</b></p> <p>Correction for coefficient</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%; text-align: center;">+</td><td style="width: 50%; text-align: center;">-</td></tr> <tr><td style="height: 100px;"> </td><td> </td></tr> </table> <p>Depth Correction ... ..</p> <p>Deduction for superstructures ... ..</p> <p>Sheer correction ... ..</p> <p>Round of Beam correction ... ..</p> <p>Correction for Thickness of Deck amidships ... ..</p> <p>Other corrections, scantlings, etc. ... ..</p> <p style="text-align: right;">Summer Freeboard = _____</p>	+	-		
+	-					

**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 " " ... ..



PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	...	...	...	...	...	...	...	...	...
Dimensions of Hatchway	...	...	...	...	...	...	...	...	...
COAMINGS	Height above Deck	...	...	...	...	...	...	...	...
	Thickness	Sides	...	...	...	...	...	...	...
	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. <i>(After 8 x 22 1931)</i>						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well			<i>7/16" x 1/2" augmented</i>			
Forward Well			<i>id</i>			

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. <i>(After 8 x 22 1931)</i>								
	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	

