

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

 Index. No. 34852  
 (For London Office only.)

Computation of Freeboard for Steamer, ~~Sailing Ship~~, Tanker  
 having a complete superstructure with a tonnage-bearing

(Type of Superstructures.)

Ship's Name Harland & Wolff Ltd  
Yard No. 980

Nationality and Port of Registry \_\_\_\_\_ Official Number \_\_\_\_\_ Gross Tonnage \_\_\_\_\_ Date of Build \_\_\_\_\_

Moulded Dimensions: Length 430.0 Breadth 62.0 Depth 30.25

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

Coefficient of fineness for use with Tables .7013 (given)

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

Date of Survey 24-2-86

Name of Surveyor \_\_\_\_\_

Particulars of Classification 100 M with fits  
(Contemplated)

Depth for Freeboard (D)				Depth correction		Round of Beam correction	
Moulded depth	...	...	30.25	(a) Where D is greater than Table depth (D - Table depth) R =		Moulded Breadth (B)	62
Stringer plate	...	...	.03	(30.28 - 28.67) × 3 = + 4.83		Standard Round of Beam = $\frac{B \times 12}{50}$	14.88
Sheathing on exposed deck	...	...	✓	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Ship's Round of Beam	15.00
$T \left( \frac{L-S}{L} \right) =$	...	...	✓			Difference	.12
Depth for Freeboard (D) =	...	...	30.28	If restricted by superstructures		Restricted to	
						Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left( 1 - \frac{S_1}{L} \right)$	$\frac{.12}{4} \times .0062 = \text{Nil}$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...	22.13	22.13	7.5	✓	22.13
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	402.54	402.54	7.5	✓	402.54
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...	5.33	2.66 = $\frac{1}{2}$ diff			2.66
" " forward					
Total ...	430.00	427.33			427.33

Standard Height of Superstructure	7.5
" " R.Q.D.	
Deduction for complete superstructure	42
Percentage covered $\frac{S}{L} =$	100.00
" " $\frac{S_1}{L} =$	99.38
" " $\frac{E}{L} =$	99.38
Percentage from Table, Line A.	99.24
(corrected for absence of fore-castle (if required))	
Percentage from Table, Line B.	
(corrected for absence of fore-castle (if required))	
Interpolation for bridge less than 2L (if required)	
Deduction =	42 × 99.24 = - 41.68

## SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	53.00	1	53.00	53.0	53.0	1	53.0
$\frac{1}{8}$ L from A.P. ...	23.585	4	94.34	23.5	23.5	4	94.0
$\frac{2}{8}$ L " ...	5.83	2	11.66	6.0	6.0	2	12.0
Amidships ...	-	4	-	-	-	4	-
$\frac{3}{8}$ L from F.P. ...	11.66	2	23.32	14.75	14.75	2	29.5
$\frac{1}{8}$ L " ...	47.17	4	188.68	58.75	58.75	4	235.0
F.P. ...	106.00	1	106.00	132.00	132.00	1	132.0
Total ...			477.00				555.5

 Mean actual sheer aft = Even  
 Mean standard sheer aft = Even

 Mean actual sheer forward = Even  
 Mean standard sheer forward = Even

 Length of enclosed superstructure forward of amidships = 3 C.S.S.  
 " " aft of " = 3 C.S.S.

 Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{78.5}{18} (.75 - .50) = - 1.09$ 

If limited on account of midship superstructure.

If limited to maximum allowance of  $1\frac{1}{2}$  ins. per 100 ft.
 Deduction for Tropical Freeboard.  
 Addition for Winter and Winter North Atlantic Freeboard.

 Depth to Freeboard Deck = 30.28  
 Summer freeboard = 3.629  
 Moulded draught (d) = 26.659

 Deduction for Tropical freeboard and addition for  
 Winter freeboard =  $\frac{d}{4}$  inches = 6.66 = 6  $\frac{3}{4}$   
 Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$ 

Tons per inch immersion at summer load water line

T =

Deduction =  $\frac{\Delta}{40 T}$  inches6  $\frac{3}{4}$ 

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction	4.83	
Deduction for superstructures		41.68
Sheer correction		1.09
Round of Beam correction		1.09
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	4.83	43.56

80.90 ✓

82.17 ✓

87.8  
24-2-86
Summer Freeboard = 43.44 44.23SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck:

Tropical Fresh Water Line above Centre of Disc	...	13 $\frac{1}{2}$
Fresh Water Line	"	6 $\frac{3}{4}$
Tropical Line	"	6 $\frac{3}{4}$
Winter Line	below	6 $\frac{3}{4}$
Winter North Atlantic Line	"	✓

Tropical Fresh Water Freeboard	...	3' 7 $\frac{1}{2}$ "
Fresh Water	"	2' 6"
Tropical	"	3' 0 $\frac{3}{4}$ "
Winter	"	3' 0 $\frac{3}{4}$ "
Winter North Atlantic	"	4' 2 $\frac{1}{4}$ "



## 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	...	...	...	...	...	...	...	...
HATCH BEAMS	Stiffeners	...	...	...	...	...	...	...	...
	Brackets, Stays	...	...	...	...	...	...	...	...
	Number	...	...	...	...	...	...	...	...
	Spacing	...	...	...	...	...	...	...	...
FORE AND AFTERS	Scantling and Sketch	...	...	...	...	...	...	...	...
	Number	...	...	...	...	...	...	...	...
	Spacing	...	...	...	...	...	...	...	...
	Unsupported Lengths	...	...	...	...	...	...	...	...
HATCH COVERS	Scantling* and Sketch	...	...	...	...	...	...	...	...
	Number	...	...	...	...	...	...	...	...
	Spacing	...	...	...	...	...	...	...	...
	Bearing Surface	...	...	...	...	...	...	...	...
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 fiddle, 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 ...	



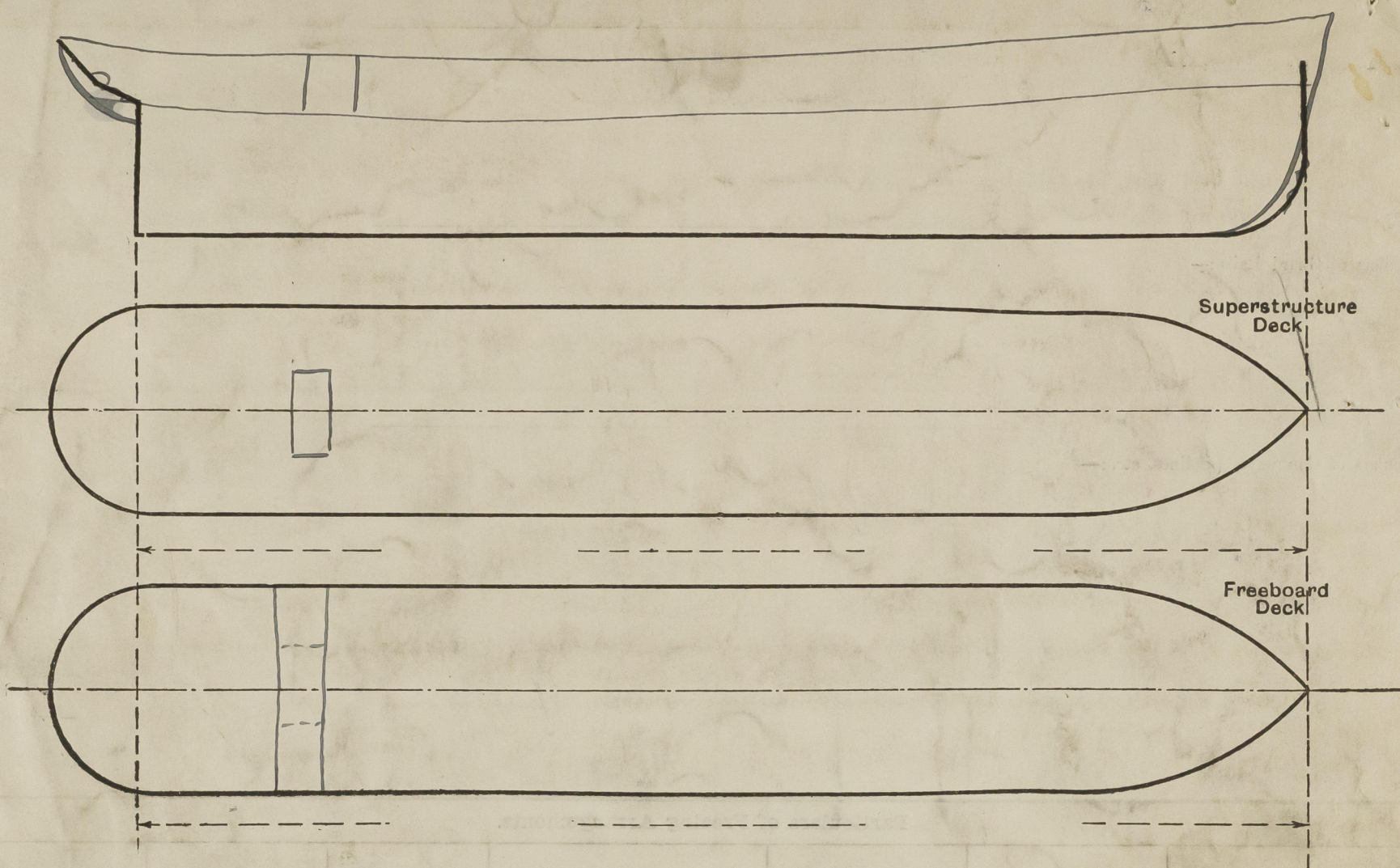
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Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shewn on the following sketches:—



State any special features in the construction of the ship:—

7

Builder's name and yard number

Names of sister ships

Owners

Lampport Holt.

Fee £

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