

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Index No. **32850**  
(For London Office only.)

21 OCT 1932

GLASGOW REPORT No. 52997

Computation of Freeboard for Steamer, Sailing Ship, Tanker  
having Poop Bridge and Forecastle

(Type of Superstructures.)

Port of Survey Glasgow

Date of Survey 19th October 1932

Name of Surveyor A.W. Paterson

Particulars of Classification +100 A1

Ship's Name "USK MOUTH" Nationality and Port of Registry British Newport Official Number 145651 Gross Tonnage 2478 Date of Build 1928-9

Moulded Dimensions: Length 297' Breadth 43.75' Depth 23.5'

Moulded displacement at moulded draught = 85 per cent. of moulded depth 5875 tons

Coefficient of fineness for use with Tables .792

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	23.5	(a) Where D is greater than Table depth (D - Table depth) R =		Moulded Breadth (B)	43.75
Stringer plate	03	(23.53 - 19.80) 2.285 =	8.52	Standard Round of Beam = $\frac{B \times 12}{50}$	10.5
Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Ship's Round of Beam	10.5
$T \left( \frac{L-S}{L} \right) =$				Difference	
Depth for Freeboard (D) =	23.53	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right)$	NIL

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed	22.66	22.66	7'-0"		22.66
" overhang			+2 1/2"		
R.Q.D. enclosed					
" overhang					
Bridge enclosed	78.75	78.75	7'-2"		78.75
" overhang aft					
" overhang forward					
Fore enclosed	26.00	26.00	7'-0"		26.00
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total	127.41	127.41			127.41

Standard Height of Superstructure	6.47
" " R.Q.D.	
Deduction for complete superstructure	35.13
Percentage covered $\frac{S}{L} =$	42.90
" " $\frac{S_1}{L} =$	42.90
" " $\frac{E}{L} =$	42.90
Percentage from Table, Line A. (corrected for absence of forecastle (if required))	
Percentage from Table, Line B. (corrected for absence of forecastle (if required))	29.96
Interpolation for bridge less than 2L (if required)	
Deduction =	-10.53

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	39.70	1		39.70	48.0	48.00	1		48.00
1/4 L from A.P.	17.65	4		70.60	20.0	20.54	4		82.16
1/2 L	4.36	2		8.72	5.0	5.13	2		10.26
Amidships		4					4		
3/4 L from F.P.	8.73	2		17.46	10.0	10.42	2		20.84
1/4 L	35.33	4		141.32	41.5	41.67	4		166.68
F.P.	79.40	1		79.40	96.0	96.00	1		96.00
Total				357.20					423.94

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{75-S}{2L} \right) = \frac{66.74}{18} \left( \frac{75-2145}{2 \times 297} \right) = -1.98$

If limited on account of midship superstructure. ✓

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 = 23.53  
Summer freeboard = 3.52  
Moulded draught (d) = 20.01

Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = 5.005

Addition for Winter North Atlantic Freeboard (if required =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ =

Tons per inch immersion at summer load water line

T =

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

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient  $\frac{.792 + .68}{1.36} = \frac{1.472}{1.36}$ 

Depth Correction ... 8.52

Deduction for superstructures ... 10.53

Sheer correction ... 1.98

Round of Beam correction ...

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

8.52 12.51 - 3.99  
Summer Freeboard = 42.20SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~and~~ Steel Deck:

Tropical Fresh Water Line above Centre of Disc	...
Fresh Water Line	"
Tropical Line	"
Winter Line	below
Winter North Atlantic Line	"

Tropical Fresh Water Freeboard ...

Fresh Water ...

Tropical ...

Winter ...

Winter North Atlantic ...

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# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway		No 1	No 2	No 3	No 4				
Dimensions of Hatchway		27' x 21'-9 1/2"	26'-3" x 21'-9 1/2"	26'-3" x 21'-9 1/2"	26'-3" x 21'-9 1/2"				
COAMINGS	Height above Deck	36"	36"	36"	36"				
	Thickness	44"	44"	44"	44"				
	Sides	44"	44"	44"	44"				
	Ends	44"	44"	44"	44"				
	Stiffeners	2 @ 1/4" deck, each side	7" B. A. on sides						
HATCH BEAMS	Brackets, Stays	2 @ 1/4" deck, each side	(2 @ 1/4" deck, each side)	2 @ 1/4" deck, each side	(2 @ 1/4" deck, each side)				
	Number	5	5	5	5				
	Spacing	4'-6"	4'-4 1/2"	4'-4 1/2"	4'-4 1/2"				
	Scantling and Sketch	18" x 36"	16 3/4" x 36"						
	Bearing Surface	4 1/2" x 3 x 35 Ls	4 1/2" x 3 x 45 Ls						
FORE AND AFTERS	Number								
	Spacing								
	Unsupported Lengths								
	Scantling* and Sketch		none						
	Bearing Surface								
HATCH COVERS	Material	W. P.							
	Thickness	2 1/2"							
	How fitted	F. x A.							
	Bearing Surface	3							
Spacing of Cleats		24"							
Number of Tarpaulins		3							

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

Particulars of fiddley, funnel and ventilator coamings:— *Stockhold gratings covered by strong steel hinged covers. Fiddley & funnel ventilators in efficient condition. Engine skylight of steel strongly constructed.*

Particulars of Flush Bunker Scuttles:— *None.*

Particulars of Companionways:— *Substantial steel house on poop, with wood hinged door 4'-2" x 1'-9" - 1 3/4" thick - 18" sill, forming entrance to poop space.*

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—  
 1 vent on forecastle deck 6" diam coaming 36" x 3/8" led to peak store.  
 7 vents on upper " 16" " " 36" x 3/8" " holds.  
 1 " " " 9" " " 36" x 3/8" " tunnel  
 6 - 5" diam screw down vents 10" high on poop dk led to poop space  
*Vents constructed in accordance with Rules & coamings closed with steel plugs & canvas covers*

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—  
 1 air pipe on poop dk 27" high x 2 1/2" diam from aft peak.  
 2 air pipes " upper " 24" " x 4" " to poop space.  
 2 " " " " 23" " x 4 1/2" " from D.B.  
 3 " " " " 21" " x 5 1/2" " " "  
 2 " " " " 25" " x 3 1/4" " " "  
 2 " " " " 25" " x 2" " " "

*no plugs or canvas covers. Efficient means of closing are provided*

Particulars of Gangway Cargo and Coaling Ports:— *None.*



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Particulars of Scuppers and Sanitary Discharge Pipes — Scuppers from bridge space led overboard below upper deck with storm valves at ship's side. — Scuppers from bridge deck & discharge pipes from wash basins & baths led overboard one foot above upper deck — no storm valves at ship's side. — Discharges from W.C.s. led overboard below upper deck with storm valves at ship's side.

Particulars of Side Scuttles: Side Scuttles in poop space fitted with hinged deadlights. — Deadlights of substantial construction.

Particulars of Guard Rails: — Guard rails on forec, poop & ends of bridge 3'-0" high with 2 rods & stanchions spaced 4'-6" apart. — Steel bulwark in wells 3'-9" high efficiently constructed & supported. — Steel bulwark at sides of bridge 3'-0" high efficiently constructed & supported. (one freeing port each side in bridge bulwark 19" x 13 1/2" with steel flap 14" above deck).

Particulars of Gangways, Lifelines, etc.: — Suitable provision 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 ...	83.19	3'-9"	Slots 10'-8" x 6" 15'-2" x 6" 11'-0" x 6"	1	18.41	16.64
Forward Well ...	86.40	3'-9"	11'-10" x 6" 12'-3" x 6" 11'-5" x 6"	1	17.75	17.28
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.						

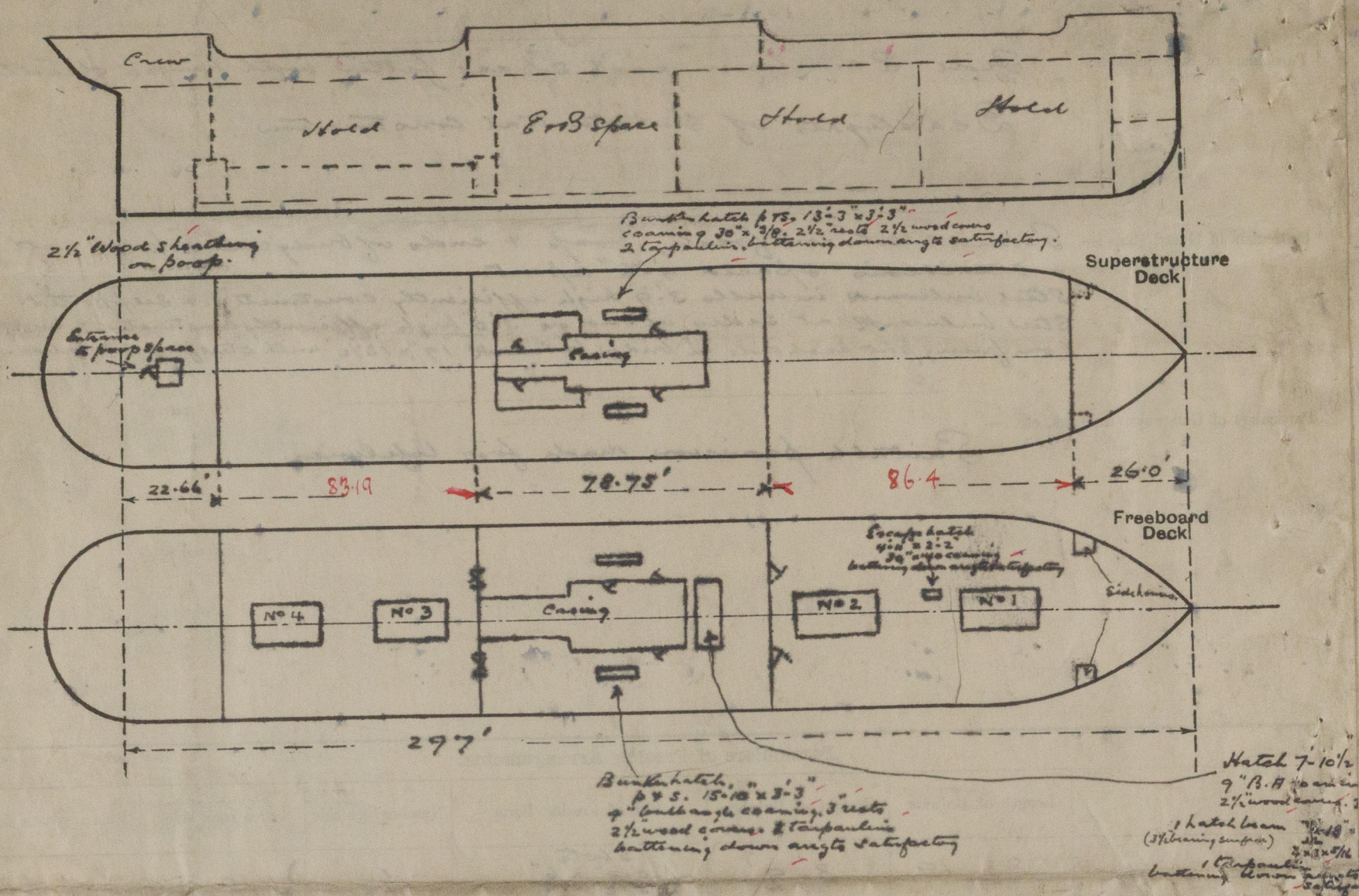
Particulars of Superstructures, Trunks, Casings, Deckhouses.								
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ...	3/8	5/16				none	✓	✓
Raised Quarter Deck Bulkhead ...	✓							
Bridge, After Bulkhead ...	✓	5/16	3" flange	30"	✓	4'-5" x 3'-0"	17"	✓
Bridge, Forward Bulkhead ...	7/16	3/8	8 x 3 x 40	30"	lugged	4'-2" x 3'-0"	17"	
Forecastle Bulkhead ...	✓							
Trunk, Aft ...	✓							
Trunk, Forward ...	✓							
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	✓							
Exposed Machinery Casings on Superstructure Decks ...	5/16	1/4"	3 x 3 x 1/4	30"	bracket at top	5'-x 2'-2"	18"	7'-3"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	3/8	5/16	3 x 3 x 1/4	30"	✓	4'-6" x 1'-10" 3'-0" x 2'-0"	19" 19"	7'-2"
Deckhouses on Flush Deck Ships ...	✓							

Particulars of Closing Appliances (state if capable of being manipulated from both sides).	
Poop Bulkhead ...	none - no openings
Raised Quarter Deck Bulkhead ...	✓
Bridge, After Bulkhead ...	weather boards 3" thick in riveted channels full height
Bridge, Forward Bulkhead ...	✓ hinged steel plates with bolts 10" apart. not manipulated both sides
Forecastle Bulkhead ...	✓ Open
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	✓
Exposed Machinery Casings on Superstructure Decks ...	hinged steel doors manipulated both sides
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	hinged steel doors not manipulated both sides (both not manipulated)
Deckhouses on Flush Deck Ships ...	✓



Wickmouth

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 shown on the following sketches:—



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

This vessel is engaged in the Mediterranean Trade.  
Timber freeboard not required.

Draught	Est displacement	Tons per inch.
20' - - - -	5880 - - - -	25.9
21' - - - -	6192 - - - -	25.95

OUT

This Survey has been held afloat & confined to an examination of the means of closing the openings in the decks & sides of the ship.

Builder's name and yard number Burntisland Shipbuilding Co. (Ld.) No. 148.

Names of sister ships

Owners Wokside S.S. Co. Ltd. (L.W. Jones & Co.) Mgrs.

Fee £ 10 : 4 : 0

Received by me

*[Signature]*



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