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Index. No. 30942  
(For London Office only.)

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

22 SEP 1932

23035.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

100 ft. Round Quarter Deck. Bridge fore  
N.H. Slenish  
BRAMFILL

Port of Survey NEWPORT, MON

Date of Survey 19<sup>th</sup> Sept 1932

Ship's Name  
GWENTLAND.

(Type of Superstructures.)

1853 M.O.T. 2510.52.  
1834 B.F.T. 6.3.539

Nationality and Port of Registry  
British, Cardiff

Official Number  
145645.

Gross Tonnage  
1821.

Date of Build  
1923-7.

Name of Surveyors  
J. Macdonald  
J. Macdonald

Moulded Dimensions: Length 264.0 Breadth 38.10 Depth 19.5 $\frac{1}{2}$   
Moulded displacement at moulded draught = 85 per cent. of moulded depth  
Coefficient of fineness for use with Tables 775

Particulars of Classification  
S.S. Npl. No. 2-31

Depth for Freeboard (D)

Moulded depth ... 19.5 $\frac{1}{2}$   
Stringer plate ... .04  
Sheathing on exposed deck  
 $T \left( \frac{L-S}{L} \right) =$

Depth correction

(a) Where D is greater than Table depth  
(D-Table depth) R =  
(19.50 - 17.60) 2.03 = + 3.86  
(b) Where D is less than Table depth (if allowed)  
(Table depth-D) R =

Round of Beam correction

Moulded Breadth (B) 38.83  
Standard Round of Beam =  $\frac{B \times 12}{50} = 9.32$   
Ship's Round of Beam = 9  
Difference 4  
Restricted to 32  
Correction =  $\frac{\text{Diff}^2}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{32}{4} (.2965) = +.02$

Depth for Freeboard (D) = 19.50

If restricted by superstructures

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
" overhang ...					
R.Q.D. enclosed ...	102.5 $\frac{1}{2}$	102.46	4.0	$\frac{4.0}{4.187}$	97.88
" overhang ...					
Bridge enclosed ...	56.4 $\frac{1}{2}$	56.79	7.0		56.79
" overhang aft ...					
" overhang forward ...	2.8	1.25			1.25
W.C. enclosed ...	23.36	23.36	7.0		23.36
" overhang ...	9	1.85			1.85
Trunk aft ...					
" forward ...	77.05				
Tonnage opening aft ...					
" forward ...					
Total ...	186.96	185.71			181.13

Standard Height of Superstructure 6.14  
" " R.Q.D. 4.187  
Deduction for complete superstructure 32.4  
Percentage covered  $\frac{S}{L} = 70.82$   
" "  $\frac{S_1}{L} = 70.35$   
" "  $\frac{E}{L} = 68.62$   
Percentage from Table, Line A. 60.65  
(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 = 32.4 x .6065 = 19.65

### SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	36.40	1		36.40	36.00	36.00	1		36.00
$\frac{1}{4}$ L from A.P. ...	16.20	4		64.80	15.80	15.80	4		63.20
$\frac{3}{8}$ L " ...	4.00	2		8.00	3.94	3.94	2		7.88
Amidships ...		4					4		
$\frac{3}{8}$ L from F.P. ...	8.01	2		16.02	7.88	7.88	2		15.76
$\frac{1}{4}$ L " ...	32.40	4		129.60	31.60	31.60	4		126.40
F.P. ...	72.80	1		72.80	72.00	72.00	1		72.00
Total ...				327.62					321.24

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 = .103  
" " aft of " = .50

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{6.38}{18} (.75 - .3541) = +.14$

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 of Freeboard Deck = 19.50

Summer freeboard = 1.83

Moulded draught (d) = 17.67

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Tons per inch immersion at summer load water line

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

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

$\frac{275+680}{1.36} = \frac{1455}{1.36}$

35.24

37.75

	+	-
Depth Correction ...	3.86	-
Deduction for superstructures ...	-	19.65
Sheer correction ...	.14	-
Round of Beam correction ...	.02	-
Correction for Thickness of Deck amidships ...	-	-
Other corrections, scantlings, etc. ...	-	-
	4.02	19.65
Summer Freeboard =	21.00	- 15.63

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, 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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### HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

Particulars of fiddley, funnel and ventilator coamings :—

Particulars of Flush Bunker Scuttles:—

Yours

Particulars of Companionways :—

Howe

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

Mr. R. D.	2	Wests	15"	as coming	36"	high x .38"
	1	"	9"	"	36"	x .38"
Mr. W. H.	1	"	15"	"	18"	Abou Frank x .38"
Mr. W. H.	1	"	10"	"	32"	x .38"
	5	"	5"	"	18"	x .30"

Wood plugs & canvas covers fitted

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

Th	RQD	2	9	1	air	pegs	23	432	Th	high	to	D.B.T.
"	"	2	"	"	"	"	25	436	28	"	"	"
"	"	1	"	"	"	"	44	432	20	"	"	A.P.T.
	Wells	2	"	"	"	"	22	436	20	"	"	D.B.T.
	Insulator	1	"	"	"	"	44	436	27	"	"	F.P.T.

~~No wood plugs fitted~~  
~~No snifting tubes~~  
Efficient means of dising  
provided

Particulars of Gangway Cargo and Coaling Ports:—

House

Particulars of Scuppers and Sanitary Discharge Pipes —

Soil pipes fitted with storm valves at Ship's side

Particulars of Side Scuttles :

Alt. side rattles fitted with lunged head lights

Particulars of Guard Rails :—

Hand rails on Lancaster 3.2" high stainless steel 5.6"  
Two Rails.

Particulars of Gangways, Lifelines, etc. :—

~~None filled~~

Provision made for juzzing lifelines  
in the forward well and on the  
raised quarter deck.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well	102' 5 1/2"	3' 5"	4' 0" x 1' 10"	5	36.6 $\frac{1}{2}$	20.4 $\frac{1}{2}$
Forward Well	80' 3 1/2"	3' 11"	4' 0" x 2' 4" (W) 8' 6" x 2' 4" (I)	5	45.4 $\frac{1}{2}$	16 $\frac{1}{2}$

State position of each freeing port ... .. R.D.  
(F. and A. position and height above deck edge) } After Well: from B. HOUSE BH 62'-28.5"-41.8"-54.5"-72.5"  
Forward Well: " " 11.0"-21.6"-32.0"-50.0"-42.0"  
State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such: — Shutters + bars

Additional area where sheer is less than standard.

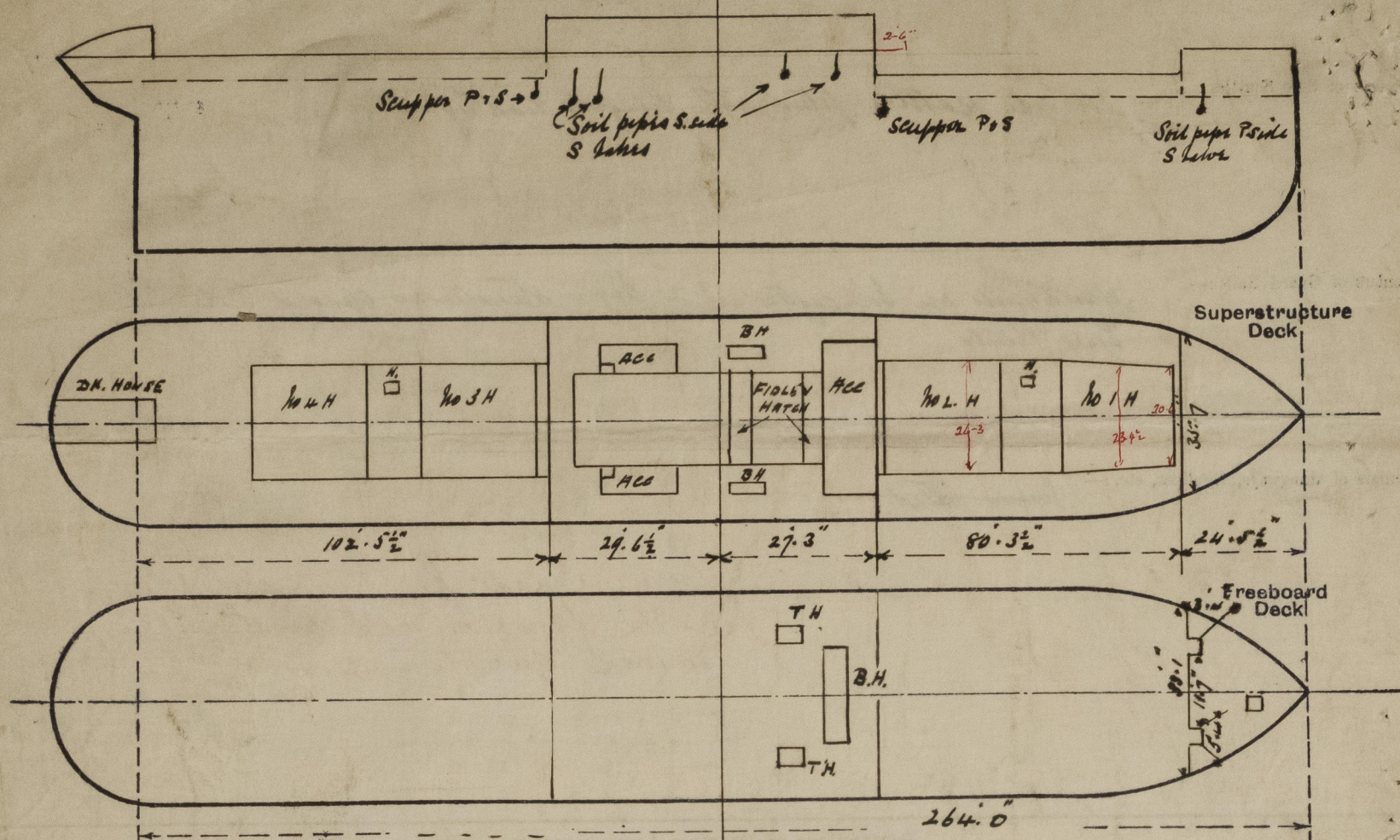
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ... ..	✓							
Raised Quarter Deck Bulkhead ...	✓	.38"	4½" x 3" x 40"	30"	✓	✓	✓	4'0"
Bridge, After Bulkhead ... ..	✓							
Bridge, Forward Bulkhead ... ..	.44"	.38"	6" x 3" x 46 BA	36"	8 AT	✓	✓	7'0"
Forecastle Bulkhead ... ..	✓	.32"	4½" x 3" x 38"	30"	✓	4'0" x 1'10"	19"	9'0"
Trunk, Aft ... ..	✓							
Trunk, Forward ... ..	✓							
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	✓							
Exposed Machinery Casings on Super-structure Decks ... ..	.38"	.38"	3" x 3" x 32"	24"	✓	4'0" x 1'10"	21"	7'0"
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).

Flush Bulkhead ... ..	✓	
Raised Quarter Deck Bulkhead ...	✓	No openings
Bridge, After Bulkhead ... ..	✓	No openings
Bridge, Forward Bulkhead ... ..	✓	No openings.
Forecastle Bulkhead ... ..		Steel hinged doors operated from either side.
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	✓	
Exposed Machinery Casings on Superstructure Decks ... ..		Steel hinged doors operated from either side
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... ..	✓	
Deckhouses on Flush Deck Ships ...	✓	



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:—



Length of trunk 78'4" - 50% Amoy - front overhang.  
= 77'1" -  
= 47'8 1/2 + 29'4 1/2

$$47.71 \times \frac{26.25}{38.83} = 32.25$$

$$29.37 \times \frac{23.37}{36.83} = 17.68$$

$$49.93$$

Equival. for 18'10" -

$$24.46 - \frac{(5.46 \times 3.33 \times 2)}{33.08}$$

$$24.46 - 1.10 = 23.36$$

$$\text{overhang} = 1.10 + 1.75 = 2.85$$

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

*Insert dimensions in Day Book for full construction*  
Stern & found in order Two side by side Hatches 12'6" x 18'0" casing 9" B.A. rest has 3" angle  
Hatches on trunks 3'0" x 1'9" casing 15" high x 38" Rest may be 1 1/2" The above hatches fitted  
with chutes, bottoms, 2 1/2" W.P. covers & two tarpaulins. One hatch in fore-cabin 2'6" square (to forepeak)  
casing 3 1/2" angle. 2 1/2" W.P. hinged cover.

2820 tons DW at 18'1" draught. T.P. 1, 20'1"

2820	-	19'0"	-
2300	-	16'0"	-
2060	-	14'0"	-
1825	-	12'0"	-

Builder's name and yard number

R Thompson & Sons Ltd

Names of sister ships

Owners

Messing, Son & Co Ltd

Fee £

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