

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.—STEAM SHIPS.

PARTICULARS RELATING TO ALL STEAM SHIPS EITHER FLUSH DECKED, OR WITH TOP GALLANT FORECASTLES, SHORT POOPS AND BRIDGE HOUSES DISCONNECTED, OR WITH TOP GALLANT FORECASTLES HAVING LONG POOPS, OR RAISED QUARTER DECKS CONNECTED WITH BRIDGE HOUSES, OR OTHERWISE.

Port of Survey *Luth*
Date of Survey *while building*
Name of Surveyor *Frank Edwards*

Ship's Name. *PENYBRYN*
Port of Registry and Nationality. *SWANSEA UK*
Official Number. *✓*
Gross Tonnage. *4230*
Date of Build. *1929*
Particulars of Classification. *+100 A1 (Contemplated)*

LENGTH. *370' 9"*
BREADTH. *51' 4"*
DEPTH. *25' 15"*
UNDER DECK TONNAGE. *3878.11*
Length on LOADLINE. *368*
Frame Depth *12*
Rule *5 1/2*
Ceiling *only*
Sheer *11.20*
Tanks *incl*
CORRECTED DIMENSIONS. *368*
50.32
26.55
3878.11

Co-efficient of fineness..... *.79*
Any modification necessary } *CDB*
[Para. 4 (a) to (e)]*
Co-efficient as corrected *.77*

Sheer { Stem... *114.5* } *180 ÷ 2 = 90* ... Mean
at { Sternpost... *65.5* }
Sheer at 1/2 of the length from { Stem *62.97* } *98.97 ÷ 2 = 49.5* ... Mean
{ Sternpost *36.00* } *49.5*
Gradual mean Sheer *90.455*
Standard mean Sheer [Table, Para. 18] *46.8*
Difference..... *43.2* ÷ 4 = *10.8*
§ If limited as Para. 18 (f) *43.17* = *10.79*

Rise in Sheer { At front of bridge house.....
amidships { Para. 18 (e) } At after end of forecastle
Fall in Sheer } ÷ 2 =
Para. 18 (d) }
Length uncovered Correction

ALLOWANCE FOR DECK ERECTIONS :—
Freeboard, Table C..... *3' 6"*
Correction for Length, if required (Para. 12, 13, and 14)
Freeboard by Table A, corrected for sheer, and for length, if required (Para. 11, 12, 13, and 14)
Difference *5 8 1/4*
Percentage as below..... *2 2 1/4*
60.8%
15.976

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)
Allowance for Deck Erections *15 3/4*

	Length.	Length allowed.	Height.
Forecastle.....	<i>32.3</i>	<i>32.25</i>	<i>7' 10"</i>
Bridge House.....	<i>233.1</i>	<i>233.08</i>	<i>8' 6"</i>
† Raised Qr. Dk.....			
Poop.....	<i>29.5</i>	<i>29.42</i>	<i>7' 4"</i>
Total		<i>294.75</i>	<i>.801</i>
Length of Ship	<i>368</i>		
Corresponding percentage { (Para. 11, 12, 13, or 14) }		<i>60.8%</i>	

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Steel) Deck :—
Fresh Water Line above centre of Disc
Indian Summer Line " " "
Winter Line below " "
Winter North Atlantic Line " " "

Moulded Depth as measured..... *27' 6 1/2"*
Addition for Keel below base line for draught record..... *1 3/4* inches.

CORRECTION FOR LENGTH.
Length of Ship on Loadline..... *368.0*
Length in Table *330.5*
Difference *37.5*
Correction for 10ft., Table A. *1.4* Table C.
× Difference divided by 10 *525* (if required.)
If 1/10ths length covered divide by 2 *262* + *2 1/2*

CORRECTION FOR IRON DECK.
Proportion covered, if less than 1/10ths length covered *3 1/2* = *3 1/2*
Thickness of usual wood deck, less stringer *3 1/2* = *3 1/2*

CORRECTION FOR ROUND OF BEAM.
Breadth at Gunwale amidships..... *49.25*
Round of Beam *12"*
Normal round..... *12.31*
Difference *31 ÷ 2 = 15.5*
Proportion of Deck uncovered (Para. 19) *.218* *N.L.*

Freeboard, Table A *6*
Correction for Sheer *5.8*
Correction for Length *+ 2*
Allowance for Deck Erections *5.10 3/4*
Correction for Round of Beam..... *1 - 4 3/4*
Correction for fall in Sheer (if any)..... *4 - 6 3/4*
Correction for Steel Deck (if required) *4*
Additions for non-compliance with provisions of Para. 11 (a) and (e) †
Other Corrections (if any)

Winter Freeboard *4' 3 1/4"*
Summer Freeboard *5' 11 1/4"*
Indian Summer Freeboard *3' 10"*
N. A. Winter Freeboard

Correction necessary because clearside amidships, measured in accordance with the Statute is not taken at the intersection of the wood or steel deck with side. *1 3/4*

Winter Freeboard from deck line
Summer " " " "
Indian Summer " " " "
N. A. Winter " " " "

24 JAN 1929

Do all the Frames extend to the top height in the Poop? *yes* Raised Quarter Deck? *yes* Bridge House? *yes* Forecastle? *yes*

To what height do the Reverse Frames extend? *yes*

Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *yes*

Give particulars of the means for closing the openings in Bulkhead *Two hinged steel doors to cross hatch plates*

Is the Poop or Raised Quarter Deck connected with the Bridge House? *no* Has the Bridge House an efficient Bulkhead at the fore end? *yes*

Give particulars of the means for closing the openings in Bulkhead *no openings*

What is the thickness of the Bridge Front plating? *.40* and Coaming plate? *.44*

Give scantlings and spacing of the Stiffeners *9x3x.40 spaced 30" apart*

Are bracket plates fitted at each end of the Stiffeners? *yes* Are hor'l. brackets fitted connecting Bridge Bulk'd. with Bulwarks? *yes*

Has the Bridge House an efficient Iron Bulkhead at the after end? *yes*

How are the openings closed? *Storm boards in riveted L's to full height of opening*

Is the Forecastle at least as high as the main or top-gallant rail? *yes* Has the Forecastle an efficient Iron or Wood Bulk'd. at after end? *yes*

Are the Engine and Boiler openings covered by a Bridge, Poop, Raised Quarter Deck, or enclosed by a Strong Iron or Steel Deckhouse? *Bridge*

If the openings are not so protected are the exposed parts of the Casings efficiently constructed? *yes*

Give thickness of plating; scantlings and spacing of Stiffeners *yes*

What is the height of the exposed Casings? *yes* Are suitable means provided for closing all openings in them in bad weather? *yes*

Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:—

Are the Weather Deck Hatchways efficiently constructed and at least equal to the requirements of Section 28 of the Rules for 1904-5? Give particulars below:—											
Position and Size.		No. 1 29-3" x 20-0"		No. 2 30-4" x 20-0"		No. 3 23-4" x 20-0"		No. 4 30-4" x 20-0"		No. 5 30-4" x 20-0"	
Item.		Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING.	Height above top of DECK	3-6		3-0		3-0		3-0		3-6	
	Thickness	Sides.....	.44 do	.44 do	.44 do	.44 do	.44 do	.44 do	.44 do	.44 do	.44 do
		Ends.....	.44		.44		.44		.44		.44
SHIFTING BEAMS OR WEB PLATES.	Number	4		4		3		4		4	
	Section and Scantlings	2x20x.38		2x16x.34		2x15x.34		2x16x.34		2x21x.38	
	Material	4x3x.44 L ^s	do	4x3x.44 L ^s	do	4x3x.44 L ^s	do	4x3x.44 L ^s	do	4x3x.44 L ^s	do
* FORE AND AFTERS.	Number	✓		✓		✓		✓		✓	
	Section and Scantlings										
	Material										
				2 1/2"	do	2 1/2"	do	2 1/2"	do	3"	do

Depth of Fore and Afters should be stated from the underside of the hatches in all cases.

The lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the requirements of Section 28 of the Rules for 1904-5 (from top of deck at side amidships to lower edge of lowest side scuttle.)

In all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

Strake between Main and Bridge Sheerstrakes? *yes*

Crew are, are not, berthed in the bridge house. *(in Poop House)*

Arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.

Ports in well *39.66 aft.*

Ford 33.75
Rule 9.9.
= 20.4 Sq. ft.

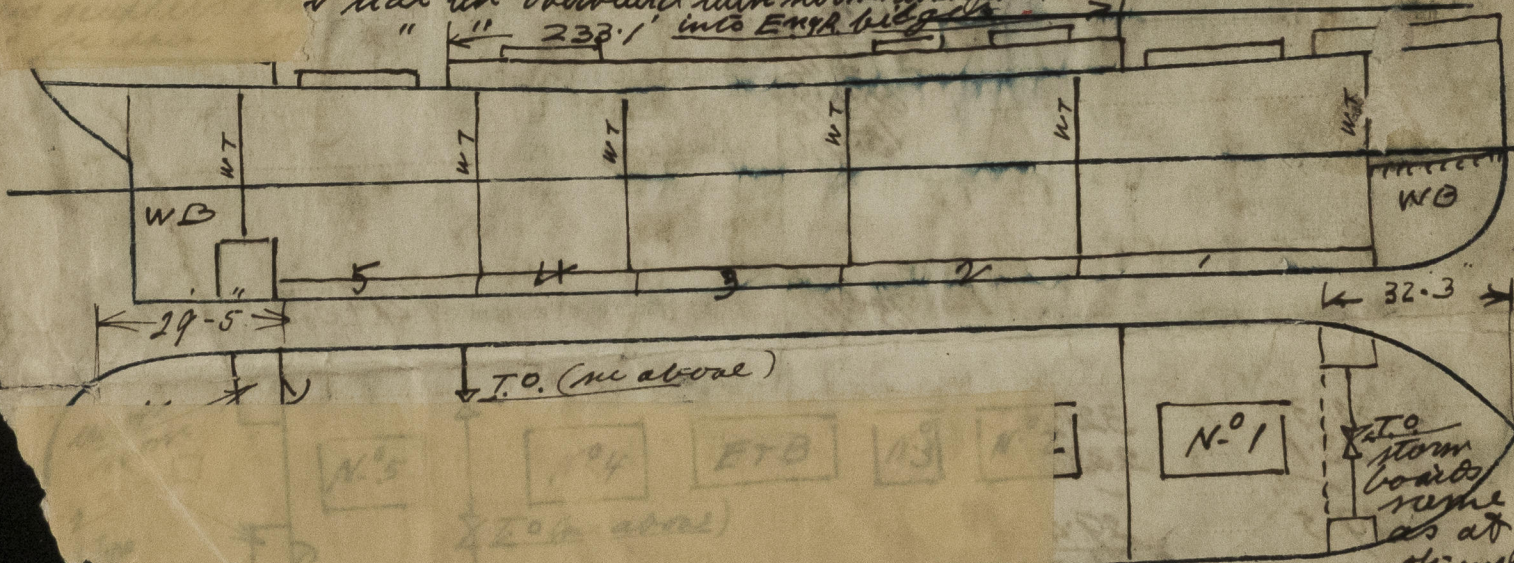
Ports required by Para. 11 (e) each side of vessel

Tenths. No. *13 7.14*
13 7.75
13 7.34
13 7.44

4 Freeing Ports (each side of vessel) = 21.6 Sq. ft.

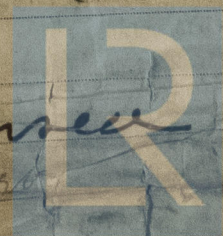
Total deficiency or excess = 1.2 Sq. ft.

side lid overboard with storm board fitted into ENGR bridge



height of Peak Tank tops, &c., &c. *at end enclosed beneath Bridge.*

20.40 (Shipyard N° 150)



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