

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.—STEAM SHIPS.

Nov 17/11/32 + Sld 2/12/32

JAN 1929 Index No. 33043
(For London Office only.)

14518

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)
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LENGTH. 370' 9"	BREADTH. 51' 4"	DEPTH. 25' 15"	UNDER DECK TONNAGE. 3898.11
Length on LOADLINE. 368	Frame Depth Rule 12 5 1/2	under hatch to ceiling only 4.25 Sheer +1.20 6 1/2 level tank	Peak Tanks } incl
CORRECTED DIMENSIONS. 368	50.32	26.35	3878.11

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

NOTE.— If the depth is measured when vessel is afloat, the details of measurement should be reported.

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

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

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** } **48**
Gradual mean Sheer **90** **45.5** **89.97** **90** **55** **89.97**
Standard mean Sheer [Table, Para. 18] **46.8** Correction **7.9**
Difference..... **43.2** ÷ 4 = **10.8**
§ If limited as Para. 18 (f) **43.17** **= 10 3/4**

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

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

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.

NOTE.— The round of beam should be reported on the full breadth of vessel at the gunwale.

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) }	5 8 1/4
Difference	2 2 1/4
Percentage as below.....	60.8%

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
Correction for fall in Sheer (if any).....	4 - 6 3/4
Correction for Steel Deck (if required)	4
Other Corrections (if any)	

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

Winter Freeboard	5 1/4 4 - 3 1/2
Summer Freeboard	(4 + 5 1/2) 3 - 10
Indian Summer Freeboard	3 7/8
N. A. Winter Freeboard	

Length.	Length allowed.	Height.
Forecastle..... 32.3	32.25	7' 10"
Bridge House 233.1	233.08	8' 6"
† Raised Qr. Dk.....		
Poop..... 29.5	29.42	7' 4"
Total	294.75	.801
Length of Ship	368	

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**

Corresponding percentage (Para. 11, 12, 13, or 14) } **60.8%**

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

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	" " "

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Planking, or ceiling are or should be reported if possible. An allowance for deck erections under Para. 11 where the sheer drops abaft amidships should be taken from the level of the top of the amidships beam. The height of the R.Q.D. is to be taken from the level of the top of the amidships beam. The total standard mean sheer is the sheer measured at the stem and sternpost, and forecastles, if there be, the sheer measured at points distant from stem and sternpost.

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

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 wash places*

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" aft*

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? *stom 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?

Give thickness of plating; scantlings and spacing of Stiffeners

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

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	
	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	.44	.44	.44	.44	.44	.44	.44	.44
	Ends	.44	.44	.44	.44	.44	.44	.44	.44	.44
SHIFTING BEAMS OR WEB PLATES	Number	4	4	3	4	4	4	4	4	4
	Section and Scantlings	2 1/2 x 20 x 3/8	4 1/2 x 16 x 3/4	3 1/2 x 15 x 3/4	4 1/2 x 16 x 3/4					
	Material	Steel								
* FORE AND AFTERS	Number									
	Section and Scantlings									
	Material									
		2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"	2"

The depth of Fore and Afters should be stated from the underside of the hatches in all cases. (If the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the Rules, the height 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. Sheerstrake? Strake between Main and Bridge Sheerstrakes?

Are the crew are, are not, berthed in the bridge house. (in Poop House) *yes*

Are the arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory. *yes*

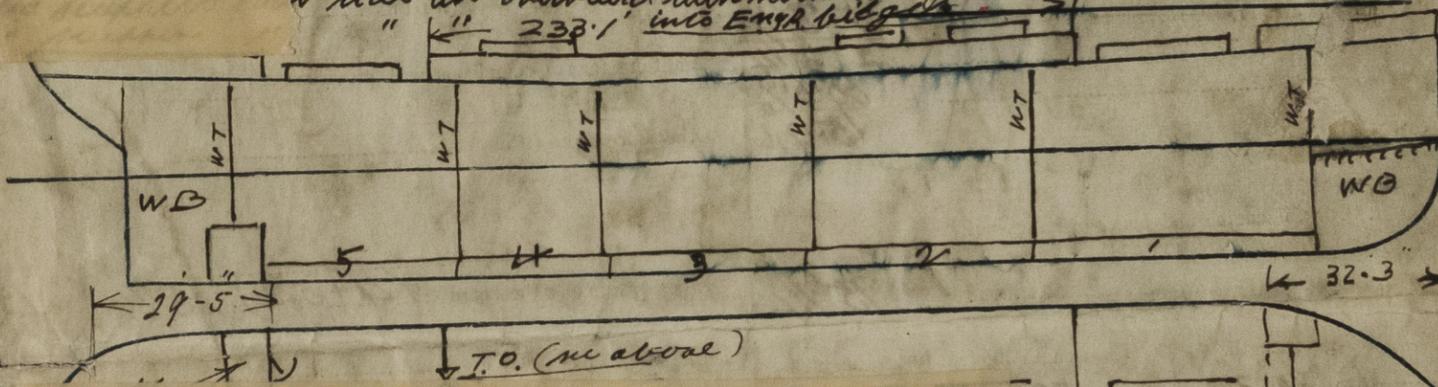
Are the hatches in well *39.66 aft.* *Ford 33.75* Rule 9.9. = *20.4* Sq. ft.

Are the hatches required by Para. 11 (e) each side of vessel = *21.6* Sq. ft.

Are the hatches in Tenth. No. *13* *7.14* *3.75* } 4 Freeing Ports (each side of vessel) = *21.6* Sq. ft.

Are the hatches in Total deficiency or excess = *.2* Sq. ft.

side led overboard with stormboards fitted. 233' into ENGR bridge



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

20.40 (Sheerstrake N° 150)