

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.-STEAM SHIPS.

17677.

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 Leith
Date of Survey while building
Name of Surveyor Ern. Caird

PENSILVA

Ship's Name BRYNYMOR	Port of Registry and Nationality <u>Suamed</u> <u>UK</u>	Official Number <u>145655</u>	Gross Tonnage <u>4250</u>	Date of Build. <u>1929</u>	Particulars of Classification <u>+100A1.</u> <u>(contemplated)</u>
Number in Register Book					

Registered dimensions from Ship's Register.	LENGTH. <u>370.9</u>	BREADTH. <u>51.4</u>	DEPTH. <u>25.15</u>	UNDER DECK TONNAGE. <u>3894.19</u>
Length on LOADLINE.	<u>368.0</u>	Frame Depth Rule <u>5 1/2</u>	Ceiling Sheer <u>+1.20</u>	Incl Tanks <u>5.5</u>
CORRECTED DIMENSIONS.	<u>368.0</u>	<u>50.32</u>	<u>26.38</u>	<u>3894.19</u>

Co-efficient of fineness..... .79
 Any modification necessary [Para. 4 (a) to (e)]* C.O.B.
 Co-efficient as corrected77

Sheer { Stem..... 114.5
 at { Sternpost... 65.5 } $180 \div 2 = 90$...Mean 1.20
 Sheer at 1/2 of the length from { Stem 62.97
 Sternpost 36.03 } $99 \div 2 = 49.5$...Mean .55
 Gradual mean Sheer 90.00 = 90.0
 Standard mean Sheer [Table, Para. 18] 46.80 Correction
 Difference..... 43.20 $\div 4 = 10.8$
 § If limited as Para. 18 (f) -10.8

Rise in Sheer from amidships [Para. 18 (e)]
 { At front of bridge house.....
 { At after end of forecastle

Fall in Sheer [Para. 18 (d)] $\div 2 =$
 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) 5-8 1/4"
 Difference 23 3/4"
 Percentage as below..... 60.1%
46.05
15.76

Correction for R. Q. Dk. if engine and boiler openings not covered by bridge house (Para. 11)			
Allowance for Deck Erections			
Length.	Length allowed.	Height.	
Forecastle..... <u>32-1"</u>	<u>32.08</u>	<u>7.7</u>	
Bridge House..... <u>233-1"</u>	<u>233.08</u>	<u>8.5</u>	
† Raised Qr. Dk.....			
Poop..... <u>29-5"</u>	<u>29.42</u>	<u>7.3</u>	
Total	<u>294.58</u>		
Length of Ship	<u>368</u>	<u>8006</u>	
Corresponding percentage (Para. 11, 12, 13, or 14)	<u>.60.1</u>	<u>.801</u>	

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 1/4" 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 5.25 (if required.) +2 1/2"
 If 1/10ths length covered divide by 2 2.62 + 2 1/2"

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

CORRECTION FOR ROUND OF BEAM.
 Breadth at Gunwale amidships..... 49.25
 Round of Beam 12
 Normal round..... 12.31
 Difference31 $\div 2 =$.15
 Proportion of Deck uncovered (Para. 19) 200

Freeboard, Table A 6-7 1/2"
 Correction for Sheer 10 1/4"
 Correction for Length 5-8 1/4"
 Allowance for Deck Erections 2 1/2"
 Correction for Round of Beam 5-10 3/4"
 Correction for fall in Sheer (if any) 1-2 3/4"
 Correction for Steel Deck (if required) 3 1/2"
 Additions for non-compliance with provisions of Para. 11 (d) and (e) † 4-3 1/4"
 Other Corrections (if any) 1 1/4"

Winter Freeboard 4-3 1/2"
 Summer Freeboard 3-9 1/4"
 Indian Summer Freeboard 3-5 1/4"
 N. A. Winter Freeboard 5"
 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 4-4 1/2"
 Summer " " " " 3-11 1/2"
 Indian Summer " " " " 3-6 1/2"
 N. A. Winter " " " " 4-0"

† If the frames, skin planking, or ceiling are of unusual thickness the breadth of vessel to inside of ceiling should be reported if possible.
 ‡ In vessels obtaining an allowance for deck erections under Para. 11 where the sheer drops about amidships the height of the R.Q.D. is to be taken from the level of the top of the amidship beam.
 § In flush-decked vessels the total standard mean sheer means the sheer measured at the stem and stern-post. In vessels having poops and forecastles, it means the sheer measured at points distant one-eighth of the vessel's length from stem and stern-post.

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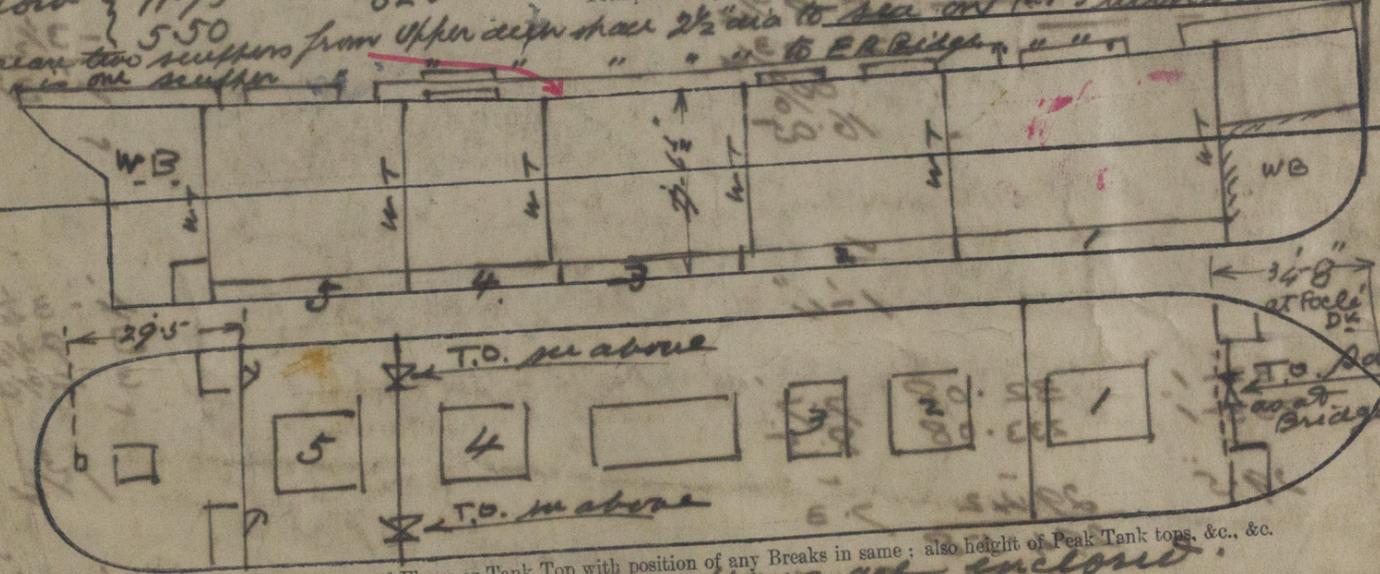
Do all the Frames extend to the top height in the Poop? *yes* Raised Quarter Deck? Bridge House? *yes* Forecastle? *yes*
 To what height do the Reverse Frames extend?
 Has the Poop or Raised Quarter Deck an efficient Iron Bulkhead at the fore end? *yes*
 Give particulars of the means for closing the openings in Bulkhead *no openings*
 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 *9x3x40 BA spaced 30" apart*
 Are bracket plates fitted at each end of the Stiffeners? *lugged* 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 channels to full height of openings (4'-0" x 3'-0")*
 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?
 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 Are suitable means provided for closing all openings in them in bad weather?
 What is the height of the exposed Casings?

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: *yes*

Position and Size	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
N ^o 1 24'3" x 20'-0"	N ^o 2 20'-4" x 20'-0"	N ^o 3 23'-4" x 20'-0"	N ^o 4 30'-4" x 20'-0"	N ^o 5 30'-4" x 20'-0"				
Item	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
COAMING: Height above top of DECK	3'-6"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"
Thickness Sides	.44	.44	.44	.44	.44	.44	.44	.44
Thickness Ends	.44	.44	.44	.44	.44	.44	.44	.44
SHIFTING BEAMS OR WEB PLATES: Number	4	4	4	4	4	4	4	4
Section and Scantlings	7/16 x 3 x .44	7/16 x 3 x .44	7/16 x 3 x .44	7/16 x 3 x .44	7/16 x 3 x .44	7/16 x 3 x .44	7/16 x 3 x .44	7/16 x 3 x .44
Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel
* FORE AND AFTERS: Number								
Section and Scantlings								
Material								
HATCHES Thickness	3"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"	2 1/2"
Remarks								

* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.
 (If the sill of the lowest side scuttle will be less than 6 inches above the Indian Summer Load Line if assigned under the tables, state vertical distance from top of deck at side amidships to lower edge of lowest side scuttle.)
 The following information is to be given in all Cases of vessels dealt with under Paras. 11, 12 (under 15 feet Moulded depth) and under Shelter Deck Rules.

What is the thickness of the Bridge Sheerstrake? Strake between Main and Bridge Sheerstrakes?
 Delete the words that do not apply: The Crew are, are not, berthed in the bridge house. The arrangements to enable them to get backwards and forwards from their quarters are, are not satisfactory.
 Length of Bulwarks in well *39.66* ft = *33.75* ft
 Area of Freeing Ports required by Para. 11 (e) each side of vessel = *20.4* Sq. ft.
 Ft. Tenths. Ft. Tenths. No. *4*
 Freeing Ports (each side of vessel) = *21.6* Sq. ft.
 aft { *11.42* x *.625* x *4*
 6.0 x *.625* x *4*
 fore { *11.75* x *.625* x *4*
 5.50 x *.625* x *4*
 Total deficiency or excess = *1.2* Sq. ft.
 Reason two mullions from upper deck sheer 2 1/2" dia to sea on R & S with storm valves on one mullion



Show hereon line of Floors or Tank Top with position of any Breaks in same; also height of Peak Tank tops, &c., &c.
 Midship Section & Profile & Deck Plans are enclosed.
 State any special features in the construction of the Vessel
 Builder's name and yard number *Bunterland S B C & Co N^o 156*
 Names of sister vessels *"ZITELLA" & "PENYBAYN" Bunterland S B C & Co N^o 153 & 150*
 Owners *The Brynmor Steamship Co*
 Address *Coleridge House, Swansea*
 Fee £ *9* 3 4 Received by me *See L.R. Report*
 Note charged with 1st entry.

