

27 JUN 1932

Index. No. **33111**  
(For London Office only.)

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

No 100628

Computation of Freeboard for Steamer, ~~Sailing Ship~~, ~~Tanker~~

having Lancaster & Bridge

(Type of Superstructures.)

Ship's Name "PEVERIL" Nationality and Port of Registry British Douglas Official Number 145306 Gross Tonnage 798 Date of Build 1929

Moulded Dimensions: Length 205'-0" Breadth 34'-6" Depth 16'-0"

Moulded displacement at moulded draught = 85 per cent. of moulded depth 1860 tons

Coefficient of fineness for use with Tables 677 (68 LOWEST)

Port of Survey Liverpool (Birkenhead)

Date of Survey 22<sup>nd</sup> June 1932

Name of Surveyor E. W. Dean

Particulars of Classification 100A.1. with keelband.

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	16'-0"	(a) Where D is greater than Table depth (D - Table depth) R = $(16.14 - 13.67) \times 1.577 = +3.89$		Moulded Breadth (B)	34'-6"
Stringer plate	.02	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Standard Round of Beam = $\frac{B \times 12}{50} =$	8.28
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) = 3.25 \left( \frac{94.79}{205} \right)$	.12	If restricted by superstructures		Ship's Round of Beam =	8.4
Depth for Freeboard (D) =	16.14			Difference	.03
				Restricted to	
				Correction = $\frac{\text{Diff}^2}{4} \times \left( 1 - \frac{S_1}{L} \right) =$	$\frac{.03^2}{4} \left( 1 - \frac{433}{567} \right) = \text{NIL}$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	-	-	-	-	-	Standard Height of Superstructure <u>6'-0"</u>
" overhang ...	-	-	-	-	-	" " R.Q.D. <u>✓</u>
R.Q.D. enclosed ...	-	-	-	-	-	Deduction for complete superstructure <u>26.50</u>
" overhang ...	70.21 MEAN	-	-	-	-	Percentage covered $\frac{S}{L} = 53.76$
Bridge enclosed <u>OPEN</u> ...	68.9 SIDE	52.65	8'-0"	✓	52.65	" " $\frac{S_1}{L} = 43.30$
" overhang aft ...	70.11 CENTRE	-	-	-	-	" " $\frac{E}{L} = 43.30$
" overhang forward ...	32.23	32.23	8'-0"	✓	32.23	Percentage from Table, Line A. (corrected for absence of forecastle (if required))
Fore enclosed ...	38.2	3.88	8'-0"	✓	3.88	Percentage from Table, Line B. <u>30.30</u> (corrected for absence of forecastle (if required))
" overhang ...	7.77	-	-	-	-	Interpolation for bridge less than 2L (if required) <u>✓</u>
Trunk aft ...	-	-	-	-	-	Deduction = $26.50 \times .303 = -8.03$
" forward ...	-	-	-	-	-	
Tonnage opening aft ...	-	-	-	-	-	
" " forward ...	-	-	-	-	-	
Total ...	110.21	88.76	-	-	88.76	

## SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P. ...	30.50	1	30.50	20.0	21.00	1	21.00
$\frac{1}{2}$ L from A.P. ...	13.57	4	54.28	9.0	9.08	4	36.32
$\frac{3}{8}$ L " ...	3.35	2	6.70	3.0	2.27	2	4.54
Amidships ...	-	4	-	-	-	4	-
$\frac{3}{8}$ L from F.P. ...	6.71	2	13.42	5.0	4.74	2	9.48
$\frac{1}{2}$ L " ...	27.15	4	108.60	18.0	18.96	4	75.84
F.P. ...	61.00	1	61.00	42.0	42.00	1	42.00
Total ...			274.50				189.18

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{85.32}{18} \left( .75 - \frac{2688}{4812} \right) = +2.28$$

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 to Freeboard Deck = 16.23

Summer freeboard = 4.54

Moulded draught (d) = 11.69

## Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = 2.92 = 3Addition for Winter North Atlantic Freeboard (if required) = 2.0

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = 1582$

Tons per inch immersion at summer load water line

$T = 12.5$

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

$= 3.16$

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient NIL

	+	-
Depth Correction	3.89	-
Deduction for superstructures	-	8.03
Sheer correction	2.28	-
Round of Beam correction	-	-
Correction for Thickness of Deck amidships	1.08	-
Other corrections, scantlings, etc. TO CORRESPOND TO APPROVED WINTER DRAUGHT OF 11'-5" MLD.	31.33	-
	38.58	8.03
Summer Freeboard =	54.50	

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, 2 1/2 Wood, 2 1/2 Deck :-

Tropical Fresh Water Line above Centre of Disc	64
Fresh Water Line	34
Tropical Line	3
Winter Line below	3
Winter North Atlantic Line	5

Tropical Fresh Water Freeboard	4'-0 1/4"
Fresh Water	4'-3 1/2"
Tropical	4'-3 1/2"
Winter	4'-9 1/2"
Winter North Atlantic	4'-11 1/2"

29 JUN 1932

RECEIVED 20 JUN 1932

RECEIVED 1 MAY 1933

5500-360600-380600



## PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway		No 1		No 2					
Dimensions of Hatchway		27'-8" x 14'-0"		16'-6" x 10'-0"					
COAMINGS	Height above Deck	30"		30"					
	Thickness	.44"		.44"					
	Stiffeners	7 x 3 B.A.		7 x 3 B.A.					
	Brackets, Stays	2" DIA.		2" DIA.					
HATCH BEAMS	Number	5		4-3/4"					
	Spacing	4'-7 1/2"		2 AT					
	Scantling and Sketch	3 AT 13 x 32" BULB ANGLES 7 x 3 x 4"		2 AT 13 x 32" BULB ANGLE 6 x 3 1/2 x 40"					
	Bearing Surface	3"		3"					
FORE AND AFTERS	Number								
	Spacing								
	Unsupported Lengths								
	Scantling* and Sketch								
HATCH COVERS	Material	W.P.		W.P.					
	Thickness	2 1/2"		2 1/2"					
	How fitted	F.F.A.		F.F.A.					
	Bearing Surface	3"		3"					
Spacing of Cleats		24"		24"					
Number of Tarpaulins		3		3					
*Are wood fore and afters steel shod at all bearing surfaces? <input checked="" type="checkbox"/> Are battens and wedges efficient and in good condition? <input checked="" type="checkbox"/> Are tarpaulins in good condition and in accordance with rule requirements? <input checked="" type="checkbox"/> Are lashings provided in accordance with rule requirements? <input checked="" type="checkbox"/>									

Particulars of fiddle, funnel and ventilator coamings:— THE FIDLEY GRATINGS ARE CLOSED BY STEEL HINGED COVERS. ✓  
THE FIDLEY AND ENGINE ROOM VENTILATORS ARE GOOD. THE FUNNEL IS GOOD. ✓  
THE ENGINE ROOM SKYLIGHT IS OF STEEL AND IS IN GOOD CONDITION. ✓

Particulars of Flush Bunker Scuttles:—

3- ON BRIDGE DECK P.T.S. C.I. BAYONET JOINT. 24"DIA. ATTACHED BY STEEL CHAIN. ✓  
3- " FREEBOARD " " " " " " NO ATTACHMENT.

Particulars of Companionways :—

NONE.

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

[illegible]

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

1-C.I. AIR PIPE ON FOGLE DE-TO F.P.E TANK	26" HIGH.	2½" DIA.	✓	
2-" " PIPES " FREEBOARD DE-TO CHAIN LOCKER	31" "	3" "		
4-" " " " " " D.B.TANKS.	24" "	3½" "	✓	
2-" " " " " " "	32" "	3½" "	✓	CLOSED BY HINGED STEEL FLAPS. ✓
6-" " " " " " " D.B.TANKS	24" "	3½" "	✓	
1-" " PIPE " " " TO A.P.E TANK.	6'3" "	3½" "	✓	

Particulars of Gangway Cargo and Coaling Ports :—

1-<sup>STEEL</sup> CARGO DOOR OF SUBSTANTIAL CONSTRUCTION IN POSITION AS SHOWN ON SKETCH - 6'-0" x 2'-10" - SILL 1'-2 1/4" ✓



Particulars of Scuppers and Sanitary Discharge Pipes —

SANITARY DISCHARGE PIPES ARE FITTED WITH G.M. STORM VALVES AT SHIPS SIDES. ✓

Scupper

SEE SKETCH. ✓

Particulars of Side Scuttles :

SIDE SCUTTLES TO CREW SPACE FORWARD & AFT ARE STRONGLY CONSTRUCTED AND ARE FITTED WITH C.I. DEADLIGHTS. ✓

Particulars of Guard Rails :—

STEEL BULWARK ROUND POLE HEAD.— 3'-9" HIGH EFFICIENTLY STIFFENED—ALSO GUARD RAILS 3'-9" HIGH— 8'-4" APART— 3 RAILS. ✓

STEEL BULWARS ROUND FREEBOARD DE AFT OF BRIDGE HOUSE.— 4'-0" HIGH EFFICIENTLY STIFFENED. ✓

Particulars of Gangways, Lifelines, etc. :—

EFFICIENT LIFE LINE FITTED IN FORE WELL SUITABLY STAYED. ✓

Lifeline provided in after well

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 BULWARK ...	54'-3"	4'-0"	3'-0" x 1'-6"	2	9.08 ✓	11.92 ft. ✓
Forward Well ...	43'-0"	4'-0"	3'-10" x 1'-6"	2	11.48 ft. ✓	10.75 ft. ✓
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.						
			PORTS ARE FITTED WITH HINGED SHUTTERS. ✓			

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 ...	-	-	-	-	-	-	-	-
Raised Quarter Deck Bulkhead ...	-	-	-	-	-	-	-	-
Bridge, After Bulkhead ...	-	-	-	OPEN	-	-	-	-
Bridge, Forward Bulkhead ...	36"	32"	7 x 3 B.A.	30"	LUGS. TOP & BOTTOM	STEEL HINGED DOORS 5'-2" x 3'-4"	19"	8'-0"
Forecastle Bulkhead ...	-	30"	3 x 3 x 30" A.	30"	NONE	6" WOOD DOORS 5'-2" x 1'-11"	18"	8'-0"
Trunk, Aft ...	-	-	-	-	-	-	-	-
Trunk, Forward ...	-	-	-	-	-	-	-	-
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	30"	25"	3 x 2 1/2 x 30" A.	3'-0"	BKTS AT TOP	3" STEEL DOORS 5'-3" x 2'-11"	12"	8'-0"
Exposed Machinery Casings on Superstructure Decks ...	-	-	-	-	-	5'-3" x 2'-6"	12"	8'-0"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	-	-	-	-	-	3'-2" x 1'-11"	15"	8'-0"
Deckhouses on Flush Deck Ships ...	-	-	-	-	-	-	-	-

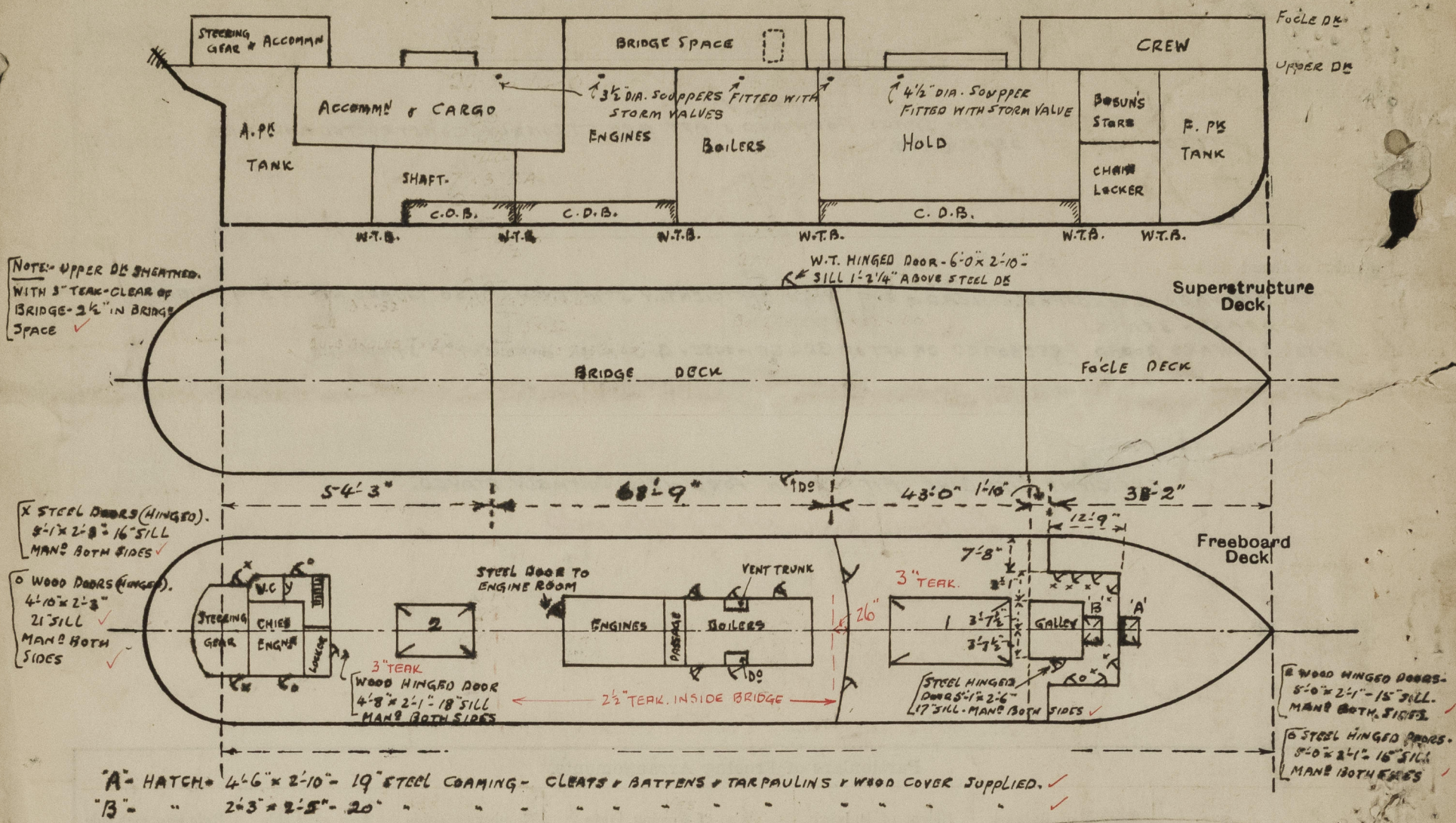
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ...	-
Raised Quarter Deck Bulkhead ...	-
Bridge, After Bulkhead ...	- OPEN -
Bridge, Forward Bulkhead ...	W.T. STEEL HINGED DOORS - MANIPULATED BOTH SIDES. ✓
Forecastle Bulkhead ...	STEEL & WOOD HINGED DOORS - MANIPULATED BOTH SIDES. ✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	STEEL HINGED DOORS - MANIPULATED BOTH SIDES. ✓
Exposed Machinery Casings on Superstructure Decks ...	-
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	-
Deckhouses on Flush Deck Ships ...	-



Pereril

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:—

FORECASTLE	
ENCLOSED	25.42 ✓
12.75 x 7.67	6.81 ✓
14.37	32.23 ✓
	40.00 ✓
	7.77 ✓

Vessel in dry dock for freeboard assignment only & docking. ✓

Builder's name and yard number Messrs. Cammell Laird & Co. Ltd. No. 957.

Names of sister ships \_\_\_\_\_

Owners Isle of Man Steam Packet Co.

Fee £ 6 : 16 : 0 Received by me [Signature]