

-8 FEB 1936

Index No. 22259
(For London Office only.)Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

Poop, bridge and forecastle.

Port of Survey Copenhagen (Vatkov)

Date of Survey 4-2-36.

Name of Surveyor V. R. Lyderum

Particulars of Classification 100. A. 1.
S.S. Cpu No 3-5. 24
S.S. Ing No 2-33.

Ship's Name *5/5 "POLASKI"*
EMPIRE PENROYN

Nationality and Port of Registry *Polish. Butsk*
Odessa

Official Number *6345*

Gross Tonnage *1912-5*

Date of Build

Moulded Dimensions: Length *424.5'* Breadth *53.0'* Depth *32.0'*

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

Coefficient of fineness for use with Tables

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth <i>32.00'</i>	(a) Where D is greater than Table depth (D - Table depth) R =	Moulded Breadth (B)
Stringer plate (.5")	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50}$ =
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = <i>13.25'</i>
Depth for Freeboard (D) =		Difference
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)
Poop enclosed			8'		
" overhang					
R.Q.D. enclosed	✓				
" overhang	✓				
Bridge enclosed			8'		
" overhang aft					
" overhang forward					
F'cle enclosed			8'		
" overhang					
Trunk aft	✓				
" forward	✓				
Tonnage opening aft	✓				
" " forward	✓				
Total					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure

Percentage covered $\frac{S}{L} =$

" " $\frac{S_1}{L} =$

" " $\frac{E}{L} =$

Percentage from Table, Line A.
(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 =

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1		36"		1	
$\frac{1}{8}L$ from A.P.		4		162"		4	
$\frac{3}{8}L$ "		2		4"		2	
Amidships		4		✓		4	
$\frac{3}{8}L$ from F.P.		2		8"		2	
$\frac{1}{8}L$ "		4		32"		4	
F.P.		1		72"		1	
Total							

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

L

" " aft of " =

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

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 = Ft.

Summer freeboard =

Moulded draught (d) =

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches =

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta =$

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

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

Summer Freeboard =

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: -

Bushy freeboard
re-assigned.

Tropical Fresh Water Line above Centre of Disc	6"	153"
Fresh Water Line	6"	153"
Tropical Line	✓	✓
Winter Line below	✓	✓
Winter North Atlantic Line	✓	✓

Tropical Fresh Water Freeboard	7'-6 1/2"	2299
Fresh Water	7'-6 1/2"	2299
Tropical	8'-0 1/2"	2452
Winter	8'-0 1/2"	2452
Winter North Atlantic	8'-0 1/2"	2452

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS						
Description of Hatchway	No. 1 Fore Dk.	No. 2 Up Dk.	No. 3 Up Dk.	No. 4 Fore Dk.	No. 5 Up Dk.	No. 6 Fore Dk.
Dimensions of Hatchway	15' 11 1/2" x 11' 11 1/2"	15' 11 1/2" x 11' 11 1/2"	22' 1" x 13' 11 1/2"	17' 8" x 11' 11 1/2"	17' 8" x 11' 11 1/2"	13' 3" x 11' 11 1/2"
COAMINGS	Height above Deck	33"	31"	30"	30"	18 1/2"
	Thickness Sides	40"	40"	44"	44"	40"
	Thickness Ends	36"	38"	40"	40"	36"
	Brackets, Stays	None	None	None	None	None
HATCH BEAMS	Number	3	3	4	3	2
	Spacing	4'	4'	4' 5"	4' 5"	4' 5"
	Scantling and Sketch	12"	12"	22"	12"	12"
	Plate Angles	16" x 38"	16" x 38"	16" x 34"	14" x 38"	18" x 34"
FORE AND AFTERS	Number	3	3	4	3	2
	Spacing	4'	4'	4' 5"	4' 5"	4' 5"
	Scantling and Sketch	12"	12"	22"	12"	12"
	Plate Angles	16" x 38"	16" x 38"	16" x 34"	14" x 38"	18" x 34"
HATCH COVERS	Material	Wood	Wood	Wood	Wood	Wood
	Thickness	3"	3"	3"	3"	3"
	How fitted	Fore & aft	Fore & aft	Fore & aft	Fore & aft	Fore & aft
	Bearing Surface	3"	3"	3"	3"	3"
Spacing of Cleats	23"	23"	23"	24"	24"	24"
Number of Tarpaulins	2	2	2	2	2	2

Particulars of fiddle, funnel and ventilator coamings:— Fiddle top 3' 5" above boat deck. Machinery skylight of steel, substantially constructed. Funnel good. Openings in fiddle top surrounded by a 6" steel bulkhead & are provided with steel gratings & steel covers.

Particulars of Flush Bunker Scuttles:—

Up deck, within bridge space 20" diam. with strong cast iron lid with bayonet joints. (1 pos),

Particulars of Companionways:—

None

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

Fore 20" diam 36" x 38" coaming. After well 20" diam 24" x 34" coaming. Poop dk. 20" diam 26" x 38" coaming. Fore Well 7' 21" x 36" x 38" well protected. All ventilators fitted with wood covers and canvas.

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

Fore deck opening above deck 33". Fore Well 36". Bridge deck 21". After Well 36". Woodplugs attached with chain provided.

Particulars of Gangway Cargo and Coaling Ports:— Gangway door in ship's side (pos) in bridge space opening 5' 4" x 4' 1", hinged steel door to close watertight, efficiently constructed & fitted with three strongbacks. Manipulated from inside only.

For coaling ports fitted in ship's side pos., provided with hinged steel doors & to close with steel bolts sp. 3 1/2" apart, 5' 2 1/2" of openings 25" x 25". Openings fitted between upper deck & 2nd deck. Doors operated from outside only.

Particulars of Scuppers and Sanitary Discharge Pipes:—

Sanitary discharges from spaces above freeboard deck led through ship's sides & fitted automatic non return valves of metal other than cast iron. Sanitary discharges from spaces below freeboard deck led through ship's sides & fitted automatic non return valves with positive means of closing, operated above the freeboard deck, readily accessible, & valve houses made of material other than cast iron.

Particulars of Side Scuttles:—

Side lights in bridge space of strong & efficient construction & supplied with portable deck lights. Side lights in poop & fore spaces and in tween decks of strong & efficient construction & supplied with strong hinged dead lights. Lower edge of lowermost sidelight 16" below 2nd deck. Sidelights situated below the 2nd deck and all of the under water pattern.

Particulars of Guard Rails:—

Superstructure deck fitted with guard rails, top bar 44" above deck, five rods & stanchions spaced 4' apart.

Particulars of Gangways, Lifelines, etc.:—

Provision made for rigging lifelines in accordance with the regulations.

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 (under shade dk)	39' 00"	4' 9"	3' 5" x 1' 5"	2 off	10.5 sq ft	10.40 ft
Forward Well	43' 14"	4' 9"	3' 5" x 1' 5"	2 off	10.5 sq ft	10.81 ft

State position of each freeing port (F. and A. position and height above deck edge) After Well: 3' 1" 5' 6" Bridge bds 15' 6" 26' 4"

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— Hinged steel shutter and one cross bar.

Additional area where sheer is less than standard.

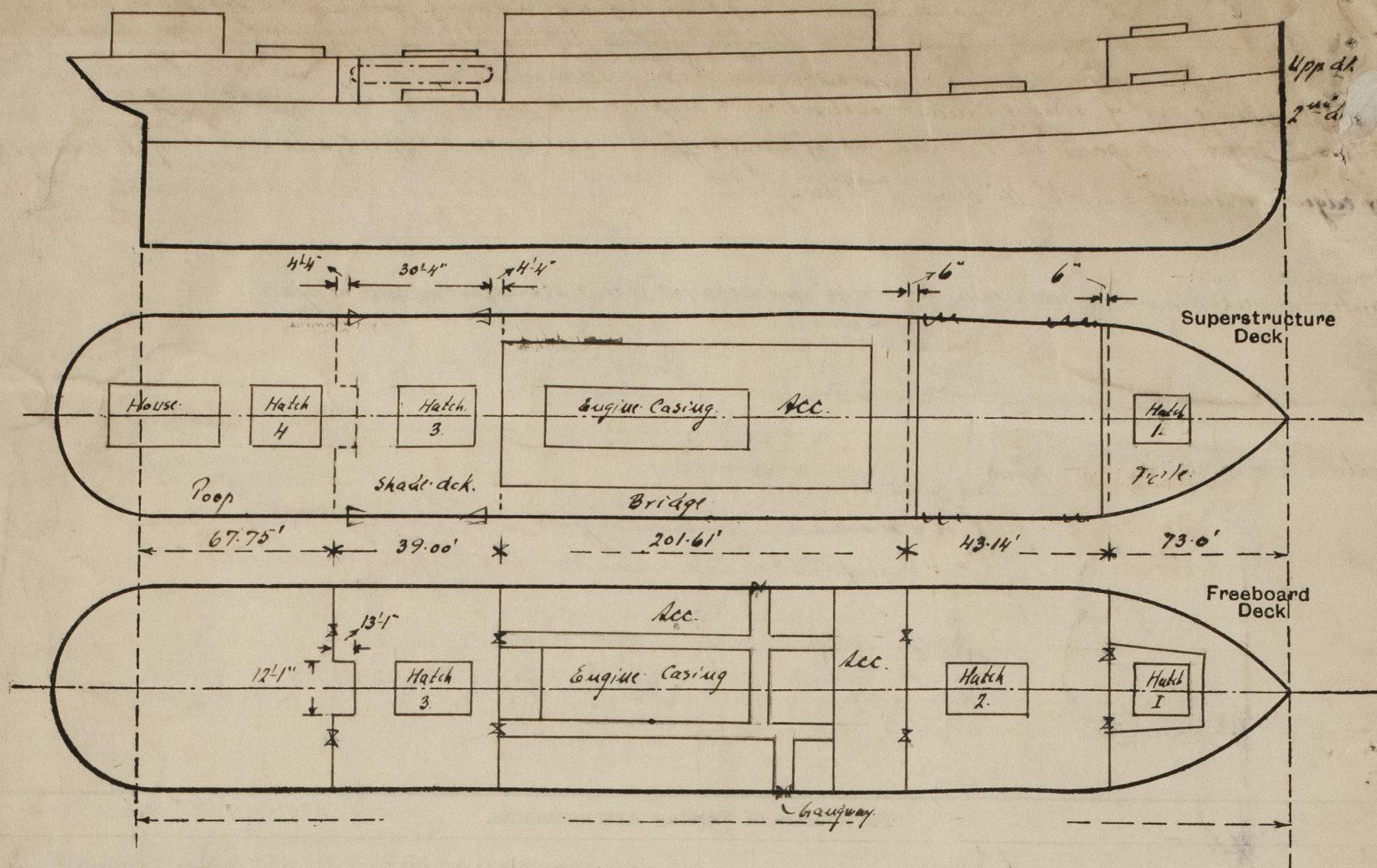
Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	22" x 38"	38"	6" x 3 1/2" x 38" & 3 1/2" x 2 1/2" x 38"	26"	Takes 6 bars	59" x 24 1/2"	19"	8'
Raised Quarter Deck Bulkhead	✓							
Bridge, After Bulkhead	22" x 38"	38"	3 1/2" pl / angles	35"	✓	59" x 24 1/2"	15"	8'
Bridge, Forward Bulkhead	23" x 44"	44"	8 1/2" x 3 1/2" x 68"	30"	Lugged top & bolt	58" x 35"	21"	8'
Forecastle Bulkhead	32"	32"	3 x 2 1/2" x 26"	24"	Takes 6 bars	63" x 25"	17"	8'
Trunk, Aft	✓							
Trunk, Forward	✓							
Exposed Machinery Casings on Freeboard or Raised Quarter Decks								
Exposed Machinery Casings on Superstructure Decks								
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).

Poop Bulkhead	Hinged teak doors. Manipulated from both sides.
Raised Quarter Deck Bulkhead	✓
Bridge, After Bulkhead	Hinged teak doors. Manipulated from both sides. Outer closing by 3 woodboards in riveted channels for a height of 14' 1" above deck.
Bridge, Forward Bulkhead	Hinged steel wd. doors, fitted with turnbuckles, two each side, two each end. Manip. fr both sides.
Forecastle Bulkhead	Hinged teak doors, manip. from both sides, and 3 woodboards in riveted channels for full height.
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	✓
Exposed Machinery Casings on Superstructure Decks	✓
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 shewn on the following sketches:—



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

Displ. on shell at 23' - 10036 Ts. Ts. per ft. - 41.05.
 " " " 24' - 10530 " " " 41.20.
 " " " 25' - 11030 " " " 41.40.

Vessel surveyed on port and starboard. Vessel holds a passenger certificate.

Builder's name and yard number Barclay, Curle & Co. Ltd., Glasgow. Yard No. 494.

Names of sister ships ✓

Owners Gdynia - America Shipping Lines, Ltd.

Fee £kr. 380.80

Received by me



© 2020

Lloyd's Register
Foundation