

Hand-drawn plan view of the USS Albatross (SSN-581) showing the upper deck, superstructure deck, and freeboard deck. The upper deck includes compartments like N°5 HOLD, N°4 HOLD, MACHINERY, N°3 HOLD, N°2 HOLD, and N°1 HOLD, along with a TUNNEL and DOUBLE BOTTOM. The superstructure deck features a large OPEN RAILS section. The freeboard deck includes a BULKHEAD, OPEN RAILS, and various compartments like N°5, N°4, N°3, N°2, and N°1. The diagram is labeled with various structural details and equipment locations.

External Displacement - Tons per inch.

<u>Draft.</u>	<u>Displacement.</u>	<u>Tons per inch.</u>
27' 0" —	14490 —	48.55
28' 0" —	15074 —	48.43

The tunnel has been examined afloat.

Decks, deck houses, carings, Latches, Latchways, Ventilators & coverings,
- air pipes, Bulwarks, & general equipment examined.
The holds & tween-decks have been generally examined
& found satisfactory.

Builder's name and yard number *Louthumberland S. B. Co. (1927) Ltd.*

Names of sister ships. *s.s. "Heddington Court". Sld Rpt No 30876, & s.s. "Dallington Court", Sld
(Rpt. No. 30921)*

Owners *United British S.S. Co. Ltd. (Haldim & Phillips Ltd. Agents)*

Fee £ 14 9 Received by me

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<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = <u>81.42</u></p> <p>Summer freeboard = <u>9.5</u></p> <p>Moulded draught (d) = <u>26.92</u></p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>6.73</u></p> <p>Addition for Winter North Atlantic Freeboard (if required) = <u>✓</u></p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>$\Delta = 14,551$</p> <p>Tons per inch immersion at summer load water line</p> <p>T = <u>48.55</u></p> <p>Deduction = $\frac{\Delta}{40T}$ inches = <u>7.5</u></p>	<p>TABULAR FREEBOARD corrected for Fresh Deck (if required)</p> <p>Correction for coefficient $\frac{804 + 68}{1.36} = \frac{1.484}{1.36}$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td></td> <td style="text-align: center;">+</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Depth Correction</td> <td style="text-align: center;">25.26</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Deduction for superstructures</td> <td style="text-align: center;">-</td> <td style="text-align: center;">1.79</td> </tr> <tr> <td>Sheer correction</td> <td style="text-align: center;">2.58</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Round of Beam correction</td> <td style="text-align: center;">.11</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td style="text-align: center;">-</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td style="text-align: center;">2.64</td> <td style="text-align: center;">-</td> </tr> <tr> <td></td> <td style="text-align: center;"><u>30.59</u></td> <td style="text-align: center;"><u>1.79</u></td> </tr> </table> <p style="text-align: right;">Summer Freeboard = <u>114.00</u></p>		+	-	Depth Correction	25.26	-	Deduction for superstructures	-	1.79	Sheer correction	2.58	-	Round of Beam correction11	-	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	2.64	-		<u>30.59</u>	<u>1.79</u>
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SUMMER FREEBOARD amidships from Centre of Disco to top of Deck Line, Wood , Steel, Deck:			
Tropical Fresh Water Line above Centre of Disco	14 1/2	Tropical Fresh Water Freeboard	8' 3 3/4"
Fresh Water Line	7 1/2	Fresh Water	8' 10 3/4"
Tropical Line	6 3/4	Tropical	8' 11 3/4"
Winter Line below	6 3/4	Winter	10' 0 1/2"
Winter North Atlantic Line	6	Winter North Atlantic	10' 0 1/2"

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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	CROSS BUNKER		
Dimensions of Hatchway	30'4" x 20'0"	30'4" x 20'0"	14'0" x 15'0"	30'4" x 20'0"	30'4" x 20'0"	30'4" x 20'0"	6'6" x 18'0"		
COAMINGS	Height above Deck	3'1"	3'1"	3'1"	3'1"	3'1"	3'1"		
	Thickness	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"		
	Sides	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	4 1/2"		
	Stiffeners	5 x 5	5 x 5	7 x 3	5 x 5	5 x 5	7 x 3		
HATCH BEAMS	Number	5	5	4	5	5	4		
	Spacing	5'0"	5'0"	4'8"	5'0"	5'0"	4'8"		
	Scantling and Sketch	18 x 36	18 x 36	16 x 34	18 x 36	18 x 36	18 x 50		
	Bearing Surface	3"	3"	3"	3"	3"	3"		
FORE AND AFTERS	Number								
	Spacing								
	Unsupported Lengths								
	Scantling* and Sketch								
HATCH COVERS	Material	St. Pl.	St. Pl.	St. Pl.	St. Pl.	St. Pl.	St. Pl.		
	Thickness	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"		
	How fitted	F + A	F + A	F + A	F + A	F + A	F + A		
	Bearing Surface	3"	3"	3"	3"	3"	3"		
Spacing of Cleats	21"	21"	21"	21"	21"	21"	21"		
Number of Tarpaulins	4	4	4	4	4	4	3		

Particulars of fiddle, funnel and ventilator coamings:—

Stokehold gratings covered by strong steel hinged lids.
Fiddle & funnel ventilators in efficient condition.
Engine skylight of steel strongly constructed.

Particulars of Flush Bunker Scuttles:—

NONE.

Particulars of Companionways:—

NONE.

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

Location	Dimensions	Material	Height	Notes
One ventilator on fore-castle deck	36" x 32"	Steel	18"	led to fore peak
One ventilator on upper deck	36" x 30"	Steel	18"	led to fore peak
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2. Ventilator on upper deck 10' dia. coaming 30" x 32" led to fore peak.
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Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—

Location	Dimensions	Material	Height	Notes
One air pipe on fore-castle deck	18" x 18"	Steel	18"	led to fore peak
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One air pipe on fore-castle deck	18" x 18"	Steel	18"	led to fore peak

2. 2" air pipe on fore-castle deck 18" high x 3" dia. from engine room tank.
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Particulars of Gangway Cargo and Coaling Ports:—

NONE.

Particulars of Scuppers and Sanitary Discharge Pipes

Bathroom, Pastry & discharges led out in stern decks without storm valves.

No Scuppers on Foreboard Deck.

2" 1/2" Brass Storm Valves from crew's side houses forward, port & starboard, led out in fore-castle deck.
One 1/2" Brass Storm Valve from Captain's Saloon house led out on starboard side in fore-castle deck.
One 1/2" Brass Storm Valve from Officer's & Engineer's side houses led out on starboard side in fore-castle deck.
2" 1/2" Brass Storm Valves from crew's spaces aft, led out in fore-castle deck, port & starboard.

Particulars of Side Scuttles:—

Side Scuttles to crew spaces in fore-castle deck & to crew spaces in fore-castle provided with hinged deadlights.
all scuttles of substantial construction.

Particulars of Guard Rails:—

Guard rails on upper deck & fore-castle 3'6" high with three rods & stanchions spaced about 4'6" apart.
Steel bulwarks 3'6" high in way of carriage-deck houses, on upper-deck amidships sufficiently constructed & supported & fitted with one running fore-and-aft rope 2 1/2" x 1 1/2" x 13' above deck.

Particulars of Gangways, Lifelines, etc.:—

NONE.

Fittings lifelines provided all fore aft on the foreboard deck for the protection of the crew.

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						
Forward Well						
NONE.						
State position of each freeing port (F. and A. position and height above deck edge)						
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.						

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								
Bridge, Forward Bulkhead								
Fore-castle Bulkhead	None	26	3 x 3 x 30	30" x 31"	None	4'6" x 4'0"	18"	✓
Trunk, Aft	✓	✓	✓	✓	✓	✓	✓	✓
Trunk, Forward	✓	✓	✓	✓	✓	✓	✓	✓
Exposed Machinery Casings on Freeboard	18" x 40"	36	4 x 3 x 36	30" x 31"	Handled at top	4'6" x 2'0"	18"	7'9"
Exposed Machinery Casings on Superstructure Decks	✓	✓	✓	✓	✓	✓	✓	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	None	Horizontal 32	4 x 3 x 30	40"	Handled at bottom	4'11" x 5'6"	18"	✓
Deckhouses on Flush Deck Ships	None	Horizontal 32	4 x 3 x 30	40"	Handled at bottom	4'11" x 5'6"	18"	✓

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

	Capable of being manipulated from both sides
Poop Bulkhead	
Raised Quarter Deck Bulkhead	✓
Bridge, After Bulkhead	
Bridge, Forward Bulkhead	
Fore-castle Bulkhead	Open passage in center below fore-castle to crew spaces & 4 steel hinged doors strongly constructed & manipulated from both sides.
Exposed Machinery Casings on Freeboard	✓
Exposed Machinery Casings on Superstructure Decks	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓
Deckhouses on Flush Deck Ships	2 steel hinged doors & 3 tank doors 1/2" thick at aft end of internal house manipulated from both sides.