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# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	115.1	115.2	115.3	115.4	115.5	115.6	115.7	115.8	115.9
Dimensions of Hatchway	25' x 18'	30' x 18'	28' x 18'	25' x 18'	28' x 18'	30' x 18'	28' x 18'	30' x 18'	28' x 18'
COAMINGS									
Height above Deck	38"	38"	38"	38"	38"	38"	38"	38"	38"
Thickness	11 mm	11 mm	11 mm	11 mm	11 mm	11 mm	11 mm	11 mm	11 mm
Stiffeners	2	3	2	2	2	2	2	2	2
Brackets, Stays	2	3	2	2	2	2	2	2	2
HATCH BEAMS									
Number	4	5	5	4	4	5	4	5	4
Spacing	5'2"	5'1"	4'7"	3'2"	4'7"	5'1"	4'7"	5'1"	4'7"
Scantling and Sketch	100 x 7 1/2 x 11 1/2	100 x 7 1/2 x 11 1/2	100 x 7 1/2 x 11 1/2	100 x 7 1/2 x 11 1/2	100 x 7 1/2 x 11 1/2	100 x 7 1/2 x 11 1/2	100 x 7 1/2 x 11 1/2	100 x 7 1/2 x 11 1/2	100 x 7 1/2 x 11 1/2
Bearing Surface									
FORE AND AFTERS									
Number									
Spacing									
Unsupported Lengths									
Scantling and Sketch									
Bearing Surface									
HATCH COVERS									
Material	Wood	Wood	Wood	Wood	Wood	Wood	Wood	Wood	Wood
Thickness	3"	3"	3"	3"	3"	3"	3"	3"	3"
How fitted	fore and aft	fore and aft	fore and aft	fore and aft	fore and aft	fore and aft	fore and aft	fore and aft	fore and aft
Bearing Surface									
Spacing of Cleats									
Number of Tarpaulins									

\*Are wood fore and afters steel shod at all bearing surfaces? ☒ Yes  
 Are battens and wedges efficient and in good condition? ☒ Yes  
 Are tarpaulins in good condition and in accordance with rule requirements? ☒ Yes  
 Are lashings provided in accordance with rule requirements? ☒ Yes

Particulars of fiddle, funnel and ventilator coamings:— *Funnel and ventilators on top of casing on boat deck efficiently constructed and supported. Engine room skylight of steel.*

Particulars of Flush Bunker Scuttles:—

Particulars of Companionways:—

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

*All ventilators are efficiently constructed; coamings are 915 mm high or above. Coamings above 915 mm high are efficiently supported. All ventilators are supplied with steel covers and canvas covers.*

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

*All air pipes are of steel of gnomon type 850 to 950 mm high and are supplied with means of closing.*

Particulars of Gangway Cargo and Coaling Ports:—

Particulars of Scuppers and Sanitary Discharge Pipes:— *Scuppers and sanitary discharges from spaces on the shelter deck are led overboard above 2nd deck and are fitted with non-return valves. Scuppers from the 2nd deck are led overboard below the 2nd deck and are fitted with non-return valves. Scuppers from the closed poop space on the 2nd deck are led to the bilges (to sketch on back of report).*

Particulars of Side Scuttles:— *Side scuttles in crew space are of substantial construction and are fitted with hinged deadlights.*

Particulars of Guard Rails:— *Open rails and bulwarks (amidships only) on shelter deck, and open rails on forecastle deck 3'9" high are substantially constructed and supported.*

Particulars of Gangways, Lifelines, etc.:—

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						
State position of each freeing port (F. and A. position and height above deck edge) After Well:— 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.						

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	15' x 7 1/2 x 7 1/2	6 1/2	10' x 6 1/2 x 8 1/2	900	none	no opening		
Raised Quarter Deck Bulkhead			10' x 6 1/2 x 8 1/2					
Bridge, After Bulkhead		6 1/2	10' x 6 1/2 x 8 1/2	800	"	5'6" x 9'6"	none	
Bridge, Forward Bulkhead								
Forecastle Bulkhead								
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks								
Exposed Machinery Casings on Superstructure Decks		6 1/2	7 1/2 x 6 1/2 x 7 1/2	710	brackets top, batten at bottom	5'1" x 9'4"	12"	8'4"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances		6 1/2	7 1/2 x 6 1/2 x 7 1/2	710	batten at top, batten at bottom	no opening		
Deckhouses on Flush Deck Ships								

Particulars of Closing Appliances (state if capable of being manipulated from both sides).	
Poop Bulkhead	no opening
Raised Quarter Deck Bulkhead	
Bridge, After Bulkhead	Wood shipping boards in riveted channel 7 1/2" thick for full height
Bridge, Forward Bulkhead	
Forecastle Bulkhead	
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	
Exposed Machinery Casings on Superstructure Decks	Hinged steel door manipulated from both sides
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	no openings
Deckhouses on Flush Deck Ships	

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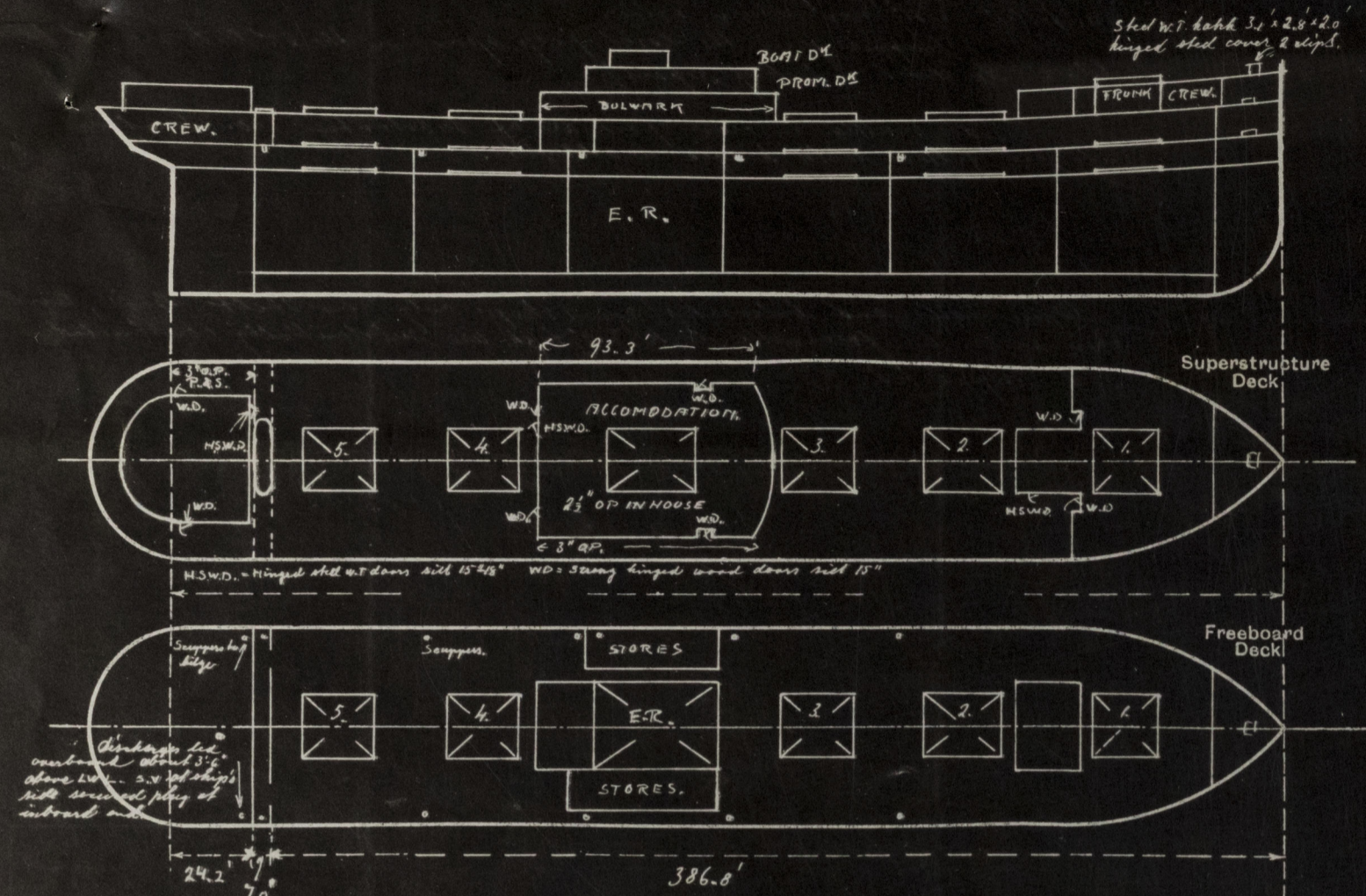
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Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, cargo and coaling ports, and any other openings, etc., which would affect the seaworthiness of the ship are to be shown on the following sketches:—



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

Tonnage opening in Shelter deck 44' long x 18.0' wide; coaming 230 x 90 mm. B.O. wood covers 75 mm. thick secured with temporary battening arrangements. ✓  
One scupper 5' x 3 1/2' fitted each side in tonnage well with non-return valves  
Freeing port each side in tonnage well 3' x 1.9' fitted with steel hinged shutters.

Displacements and Tons per Inch:—

At 75% of moulded depth 9720 tons displ. and 42.91 tons per inch.  
" 85 " " " 11180 " " 43.80 " " "  
" 95 " " " 12670 " " 44.77 " " "

Deduction for Tropical Freeboard.  
Addition for Winter and Winter North Atlantic Freeboard.

Ft.  
Depth to Freeboard Deck = 28.04  
Summer freeboard = 2.90  
Moulded draught (d) = 25.14

Deduction for Tropical freeboard and addition for  
Winter freeboard =  $\frac{d}{4}$  inches = 6.28 = 160  
Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line  
 $\Delta = 11895$   
Tons per inch immersion at summer load water line  
 $T = 44.26$   
Deduction =  $\frac{\Delta}{40T}$  inches  
= 6.72 = 171

See back of report.

TABULAR FREEBOARD corrected for Flush Deck (if required)  
Correction for coefficient

	+	-
Depth Correction ...	0.51	-
Deduction for superstructures ...	-	41.65
Sheer correction ...	-	2.48
Round of Beam correction ...	-	-
Correction for Thickness of Deck amidships ...	-	-
Other corrections, scantlings, etc. ...	-	-
	0.51	44.13

Summer Freeboard = 34.85

77.16  
78.47

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:— 885

Tropical Fresh Water Line above Centre of Disc ...	331	Tropical Fresh Water Freeboard ...	554
Fresh Water Line " " ...	171	Fresh Water " " ...	714
Tropical Line " " ...	160	Tropical " " ...	725
Winter Line " " ...	160	Winter " " ...	1045
Winter North Atlantic Line " " ...	-	Winter North Atlantic " " ...	-



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