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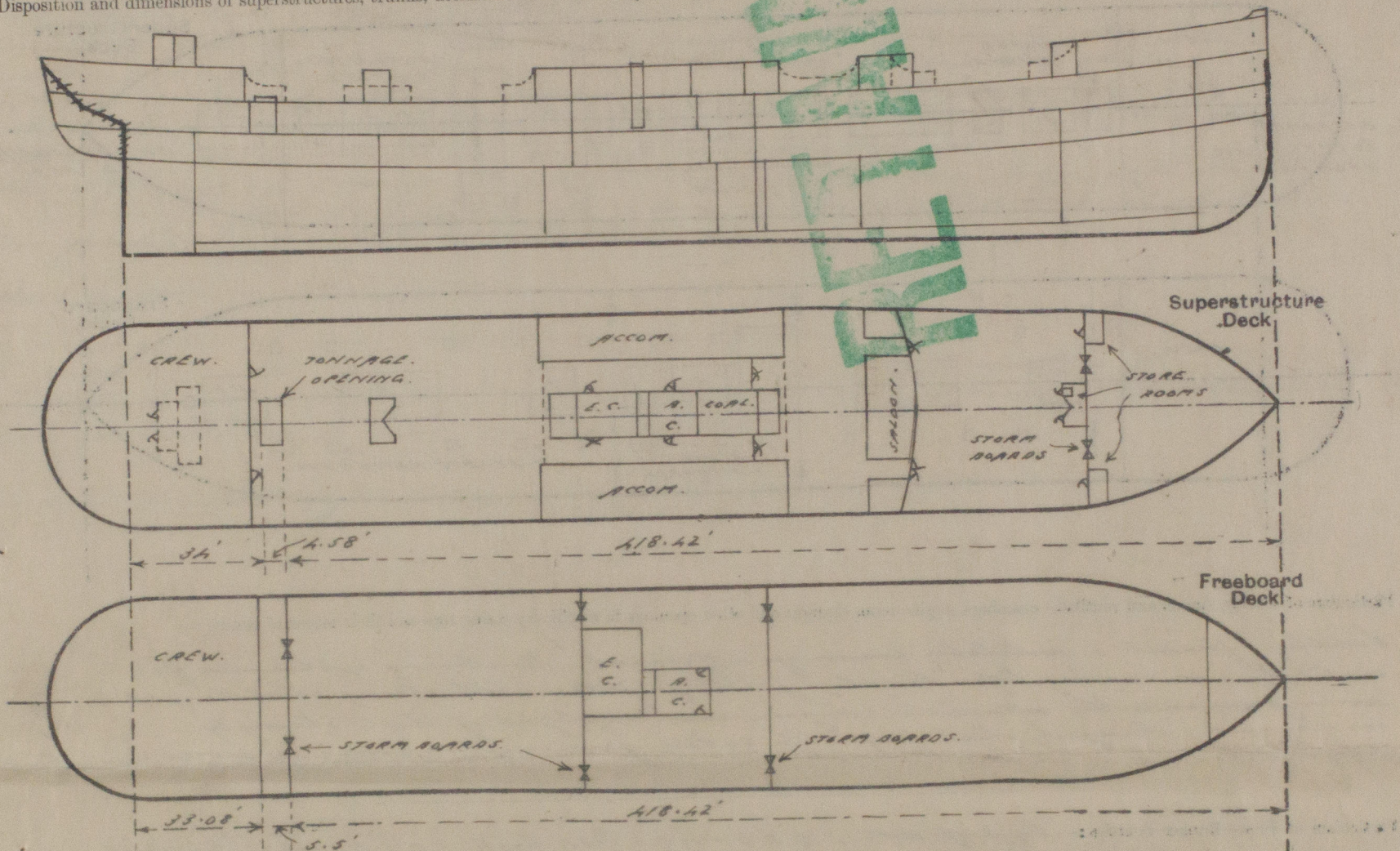
# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(CONDITIONS OF ASSIGNMENT.) *Gr. H. No. 20491.*

Ship's Name *"CLAN BUCHANAN"*Port of Survey *Glasgow*Official Number *165929.*Surveyor's Signature *N. L. Swinton*Nationality and Port of Registry *British, Glasgow.*Date of Survey *While Building.**13-1-38.*

Disposition and dimensions of superstructures, trunks, deckhouses and machinery casings to be inserted in the diagrams and tabular statement:—



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 <i>ON SHELTER. DK...</i>	<i>21' x 44'</i>	<i>33</i>	<i>ANG. 6' x 3' x 39</i>	<i>30"</i>	<i>WELDED.</i>	<i>4' 10" x 28"</i>	<i>22"</i>	<i>8' 0"</i>	✓
<i>POOP</i>									
Raised Quarter Deck Bulkhead <i>...</i>	✓	<i>30</i>	<i>3' x 3' x 40</i>	<i>30</i>	<i>NONE.</i>	<i>NONE</i>	✓	<i>8' 2 1/2"</i>	✓
<i>IN SHELTER TWEEN DECKS.</i>									
Bridge, After Bulkhead <i>...</i>	✓	<i>30</i>	<i>3' x 3' x 40</i>	<i>28</i>	<i>NONE</i>	<i>4' 1" x 37</i>	<i>18</i>	<i>8' 2 1/2"</i>	✓
<i>IN SHELTER TWEEN DECKS.</i>									
Bridge, Forward Bulkhead <i>...</i>	✓					<i>5' 2" x 4 1/2"</i>	<i>18</i>		✓
Forecastle Bulkhead <i>ON SHELTER. DK.</i>	<i>18' x 32'</i>	<i>28</i>	<i>3 1/2' x 3' x 30</i>	<i>24</i>	<i>NONE.</i>	<i>5' 3" x 24</i>	<i>18</i>	<i>8' 0"</i>	✓
Trunk, Aft <i>...</i>	✓								
Trunk, Forward <i>...</i>	✓								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks <i>...</i>	✓								
Exposed Machinery Casings on Superstructure Decks <i>...</i>	<i>15' x 38</i>	<i>30</i>	<i>3 1/2' x 3' x 30</i>	<i>33</i>	<i>BRACKETS</i>	<i>5' 4" x 24</i> <i>5' 4" x 48</i>	<i>15</i> <i>15</i>	<i>8' 0"</i>	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances <i>...</i>	<i>18' x 28</i>	<i>36</i>	<i>3 1/2' x 3' x 30</i>	<i>33</i>	<i>AT TOP.</i>	<i>2' 9" x 21</i>	<i>33</i>	<i>8' 2 1/2"</i>	✓
Deckhouses on Flush Deck Ships <i>...</i>	✓								

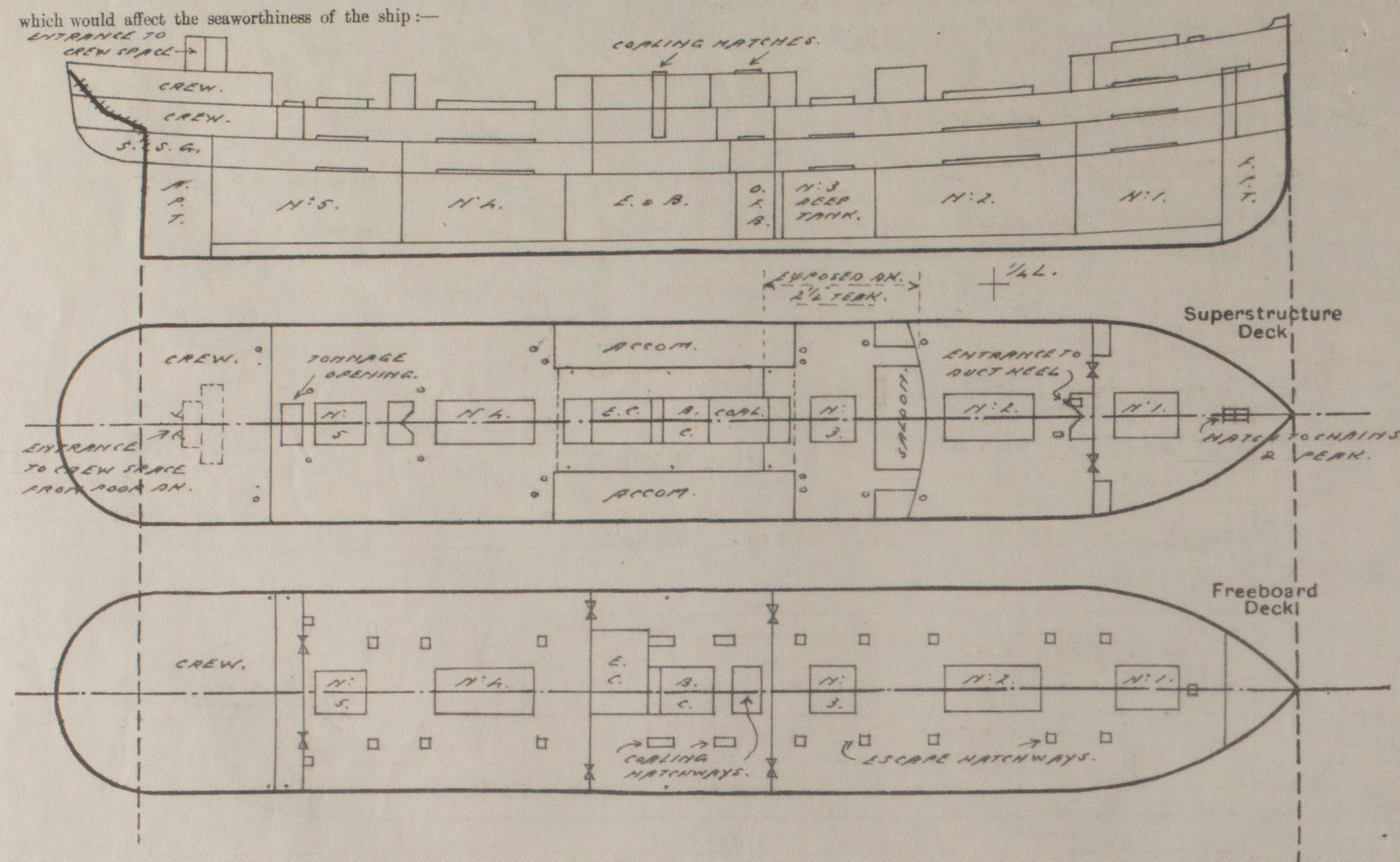
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead <i>ON SHELTER. DK.</i>	<i>2 hinged steel doors manipulated from both sides.</i>	✓
<i>POOP</i>		
Raised Quarter Deck Bulkhead <i>...</i>	<i>No openings.</i>	✓
<i>IN SHELTER TWEEN DECKS.</i>		
Bridge, After Bulkhead <i>...</i>	<i>2 openings closed with 2 1/2" storm boards in riv. chls. full height.</i>	✓
<i>IN SHELTER TWEEN DECKS.</i>		
Bridge, Forward Bulkhead <i>...</i>	<i>3 hinged steel doors (to store rooms) secured by padlock on outside.</i>	✓
Forecastle Bulkhead <i>ON SHELTER. DK.</i>	<i>2 openings closed with 2 1/2" storm boards in riv. chls. full height.</i>	✓
<i>ON SHELTER. DK.</i>		
Exposed Machinery Casings on Freeboard or Raised Quarter Decks <i>...</i>	<i>3 hinged steel doors 24", &amp; 1 hinged steel door 48" (in halves)</i>	✓
Exposed Machinery Casings on Superstructure Decks <i>...</i>	<i>manipulated from both sides.</i>	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances <i>...</i>	<i>2 hinged steel doors manipulated from both sides.</i>	✓
Deckhouses on Flush Deck Ships <i>...</i>	✓	



# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

The following diagrams should be used to indicate the positions of cargo and coaling hatchways, gangway, cargo and coaling ports, ventilators, companionways, etc., which would affect the seaworthiness of the ship:—



Particulars of fiddle, funnel and ventilator coamings, engine room skylight and other openings in machinery casing tops and their means of closing:—

Fiddle, funnel & ventilator coamings efficient. No closing appliances for ventilators on casing top. Fiddle gratings fitted with strong steel hinged covers permanently attached. Engine room skylight of steel strongly constructed, hinged steel flaps operated from engine room. No covers provided.

Particulars of Flush Bunker Scuttles:— On poop deck: 2 @ 2'0" x 1'9" x 10 1/4" high, 2 @ 2'4" x 2'8" x 12 1/4" high. 1 @ 7'9" x 4'0" x 13 1/2" high. All of steel strongly constructed, hinged steel flaps operated by quadrant. No covers provided.

Particulars of Companionways:— Companionway to deck head in fore deckhouse: opening 4'3" x 25" closed by hinged steel door manipulated from both sides. Sill 29" high. Companionway to crew space in poop from deckhouse on poop deck: opening (2) 5'0" x 24" closed by hinged steel door manipulated from both sides. Sill 16 1/2" high.

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

2 on Poop deck, 12" dia. Coam. 27" x 34" to crew.	2 on shelter deck, 16" dia. Coam. 38" x 38" to lower deck.	
2 " " 20 " " 27" x 40" to hold.	2 " " 15 " " 51" x 36" to deck top stowed.	
2 " " 12 " " 30" x 34" to crew.	2 " " 14 " " 120" x 36" to lower deck.	
1 " " 9 " " 30" x 32" to steering gear.	2 " " 22 " " 36" x 40" to hold.	
1 on Poop deck, lower top 9" dia. 24" x 32 " "	4 " " 14 " " 36" x 36" to lower deck.	
1 " " 20 " " 51" x 40" to tunnel.	2 on after mainmast top 20" dia. 30" x 40" to hold.	
2 " " 16 " " 24" x 38" to crew.	2 " " 22 " " 36" x 40 " "	
1 " Sole deck. 12 " 36" x 34" to first store.	2 on Bridge deck, 10" dia. Coam. 27" x 32" to lower deck.	
2 " " 20 " 36" x 40" to hold.	2 " " 15 " " 50" x 38" to bunkers.	
2 " " 18 " 36" x 40 " "	3 " " 9 " " 30" x 32 " "	
1 " " 9 " 36" x 32" to deck head.	2 " " 20 " " 27" x 40 " "	
2 on shelter deck, 23" x 21 Coam. 38" x 42" to hold, protected.	all vent. coamings constructed in accordance with the Rules, & fitted with wood planks & canvas covers.	
2 " " 16" dia. 36" x 38" to lower deck.		
2 " " 10 " 33" x 32 " "		

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

1 on Side deck, 4" dia. 28" high to fore peak tank.	4 on shelter deck, 2" dia. 18" high to upper deck.
1 " " 4 " 29" " " to D.P. tank.	2 on poop deck, 3 " 30 " " to aft peak tank.
14 on shelter deck, 4 " 29" " "	
4 " " 4 " 26" " "	
2 " " 4 " 18" " "	
10 " " 3 " 18" " "	
2 " " 3 " 27" " " to cofferdam.	

Openings of air pipes to oil fuel double bottom tanks fitted with wire gauze. Remainder fitted with canvas covers.

Particulars of Gangway Cargo and Coaling Ports:—

None.

Particulars of Scuppers and Sanitary Discharge Pipes:—

3-12" scuppers from midship alleyway p.s.g. on shelter deck, led through ship's side below shelter deck, no storm valve.  
1-2" scupper p.s.g. from W.S. which scutling on shelter deck, led through ship's side below shelter deck, no storm valve.  
1-2" scupper p.s.g. from enclosed poop above shelter deck, led through ship's side below shelter deck with storm valve.  
Remainder of scuppers from shelter deck, led thru' stringer angle above deck.  
1 scupper p.s.g. from crew space aft in shelter tween deck, led thru' ship's side above freeboard deck, fitted with hinged flap secured by butterfly nut as approved for sister vessels. 1-5" square S.D.N.R. scupper p.s.g. in tonnage well led through ship's side above freeboard deck, geared from shelter deck.  
1-12" scuppers p.s.g. from freeboard deck, led to engine room bilge with cork.  
Discharges from bath, W.C., etc. above shelter deck, led through ship's side above freeboard deck, with storm valves.

Particulars of Side Scuttles:—

In forecabin 9" dia. with hinged deadlights.  
In poop 10" " " "  
In shelter deck 9" " " "  
In bridge sidehouses 15" dia. no deadlights.  
No scuttles below freeboard deck.

All scuttles of substantial construction.

Vertical distance of Sill of lowest Side Scuttle above top of keel

Particulars of Guard Rails:—

On superstructure deck, 3'6" high, 3 rods. Stanchions spaced about 4'6" apart.  
On poop deck, 3'9" " 3 " "  
On bridge deck, 3'6" " 2 " "  
On shelter deck, abreast W. 2'4" x 5 hatchways 3'9" high 3 rods. Stanchions spaced about 4'9" apart. Plancher on shelter deck, steel bulwark 3'9" high, strongly constructed & efficiently supported.

Particulars of Gangways, Lifelines, etc.:—

None.

## Particulars of Freeing Arrangements.

Particulars of Freeing Arrangements.						
<i>On Superstructure Deck.</i>	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
<del>After</del> Well at W. 3 Hatchway.	38.5'	2' 9"	2' 2" x 1' 3"	2	5.4 sq.	5.17 sq.
Forward Well ... ..		No freeing ports fitted in tonnage well. ✓				
State position of each freeing port ... .. (F. and A. position and height above deck edge)						
			{ <del>After</del> Well:— 7' 9", 28' 6", from Bridge sidehouse front. Forward Well:— 13" above deck edge.			
State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— Ports fitted with balanced shutters.						
Additional area where sheer is less than standard.						



# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECK.										
	SUPERSTRUCTURE DECK.					FREEBOARD DECK.				
Description of Hatchway	N:1.	N:2.	N:3.	N:4.	N:5.	N:1.	N:2.	N:3.	N:4.	N:5.
Dimensions of Hatchway	20'3" x 18'0"	46'3" x 21'0"	22'0" x 21'0"	35'9" x 21'0"	22'0" x 21'0"	20'3" x 18'0"	48'6" x 21'0"	22'0" x 21'0"	35'9" x 21'0"	22'0" x 21'0"
COAMINGS	<div> <div> Height above Deck ... 33"</div> <div> Thickness ... 50</div> <div> Stiffeners ... 44</div> <div> Brackets, Stays ... 4</div> </div> <div> <div> Height above Deck ... 33"</div> <div> Thickness ... 50</div> <div> Stiffeners ... 44</div> <div> Brackets, Stays ... 4</div> </div> <div> <div> Height above Deck ... 33"</div> <div> Thickness ... 50</div> <div> Stiffeners ... 44</div> <div> Brackets, Stays ... 4</div> </div> <div> <div> Height above Deck ... 33"</div> <div> Thickness ... 50</div> <div> Stiffeners ... 44</div> <div> Brackets, Stays ... 4</div> </div> <div> <div> Height above Deck ... 33"</div> <div> Thickness ... 50</div> <div> Stiffeners ... 44</div> <div> Brackets, Stays ... 4</div> </div>									

\*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.

N:1 hatchway on Sole deck. Macosking Patent steel cov. 20'3" x 18'0". Coam. 30 x 44. Ends 44. Side stiff 7'3" x 40 S.A. with 2-9" chl. stays. Top pl. 28. Stiff. 8'3 1/2 x 5 1/2 x 52/52 chls. 27'0". Top side angle 9 x 3 1/2 x 75.

Particulars of any special features:—

Hatch beams in N:2-3-4-5 hatchways on Super. deck of T.O.B. sliding type.

Hatch cover on N:1 hatch on Sole deck of steel, Macosking patent.

All single hatch cover on main hatchways fitted with Cook's steel cords.

Hatch on Sole deck to store 2'1" x 2'2". Coam. 9 x 3 x 40 S.A. steel W.T. hinged cover secured by clips spaced about 15" apart.

Cooling hatch on Bridge deck 11'0" x 19'0". Coam. 9 x 3 x 40 S.A. 1 web. 13 x 44 3 x 3 x 50 doub. ang. Covers 2 1/2". Rest 3". Cleats 24" apart, 2 tarpaulins.

Cooling hatch on Bridge deck 5'6" x 19'0". Coam. 9 x 3 x 40 S.A. Covers 2 1/2". Rest 3". Cleats 24" apart, 2 tarpaulins.

Cooling hatches on Bridge deck 1 @ 10'0" x 5'4 1/2", 1 @ 9'4" x 5'4 1/2", Coam. 9" S.A. above wood deck. Covers 2 1/2". Rest 3". Cleats 21" apart, 2 tarpaulins.

Ventage opening on Shelter deck 4'7" x 21'0". Coam. 12 x 3 1/2 x 44 S.A. Covers 2 1/2". efficiently secured. Rest 3". No tarpaulins or battening arrangement.

Hatch on shelter deck to fore peak 6'0" x 4'2". Coam. 9 x 3 1/2 x 40 S.A. Covers 2 1/2". Rest 3". Cleats 21" apart, 2 tarpaulins.

Cooling hatch on Freeboard deck 16'6" x 21'0". Coam. 9 x 3 1/2 x 40 S.A. 3 webs. 23 x 50, 5 x 3 1/2 x 50 doub. ang. Covers 2 1/2". Rest 3". Cleats 24" apart, 2 tarpaulins.

Cooling hatches on Freeboard deck 3 @ 10'6" x 5'4 1/2", 1 @ 11'0" x 5'4 1/2", Coam. 9 x 3 1/2 x 40 S.A. Covers 2 1/2". Rest 3". Cleats 18" apart, 2 tarpaulins.

Escape hatches on Freeboard deck 19 @ 2'6" x 2'6", Coam. 9 x 3 1/2 x 40 S.A. Hinged cov. 2 1/2", secured by clips as per figure 3A, Case 1619, as approved.

Endorsement at first survey and at surveys for renewal of Certificate:—

The fittings and appliances are in accordance with the particulars shown on this form (or as now modified) and are in good condition.



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