

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(CONDITIONS OF ASSIGNMENT.)

Ship's name STEEL SC. TUG "ABEILLEN" 22

Port of Survey HAVRE

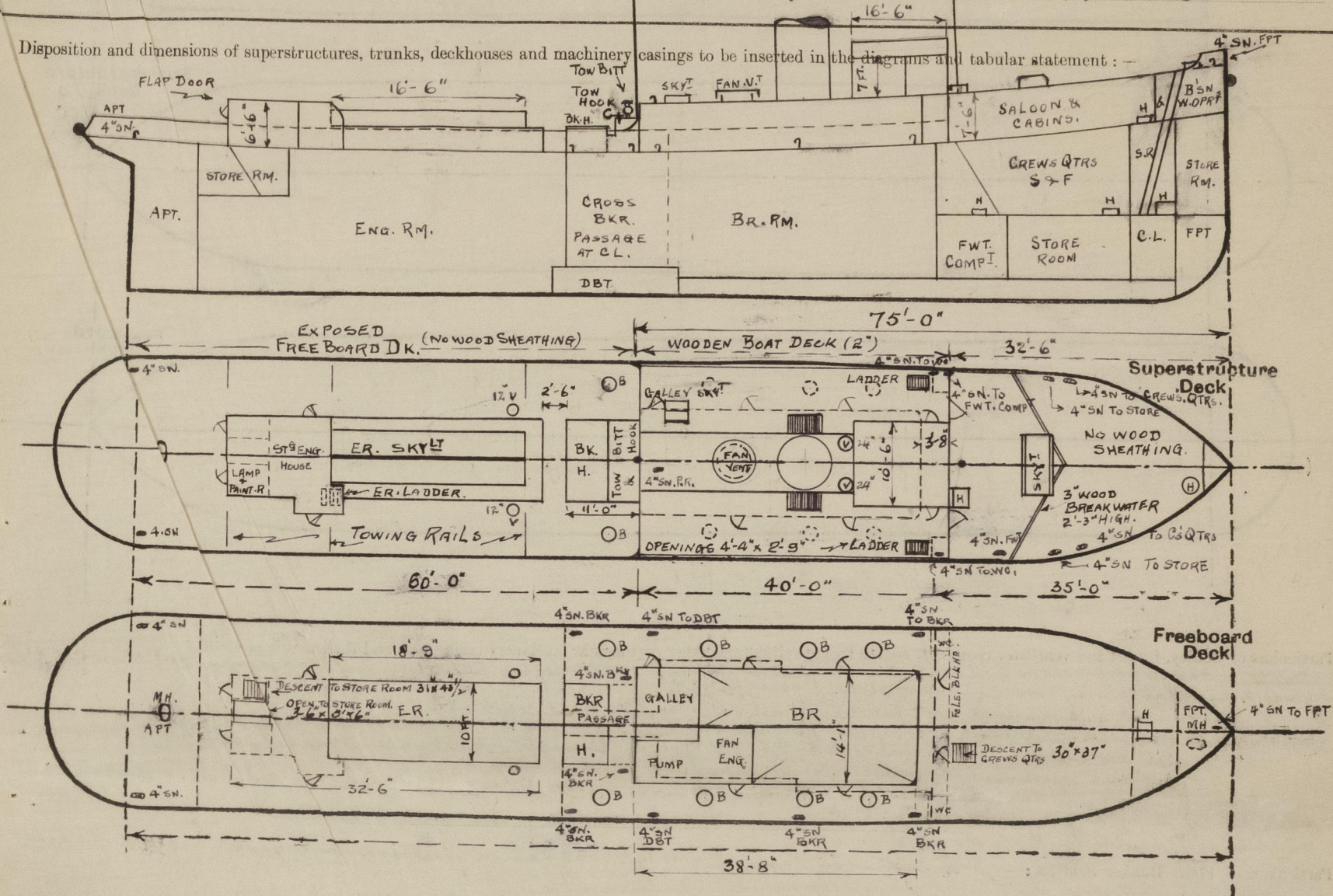
Official Number ✓

Surveyor's Signature Heckmann

Nationality and Port of Registry FRENCH - HAVRE.

Date of Survey 14-6-38.

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.

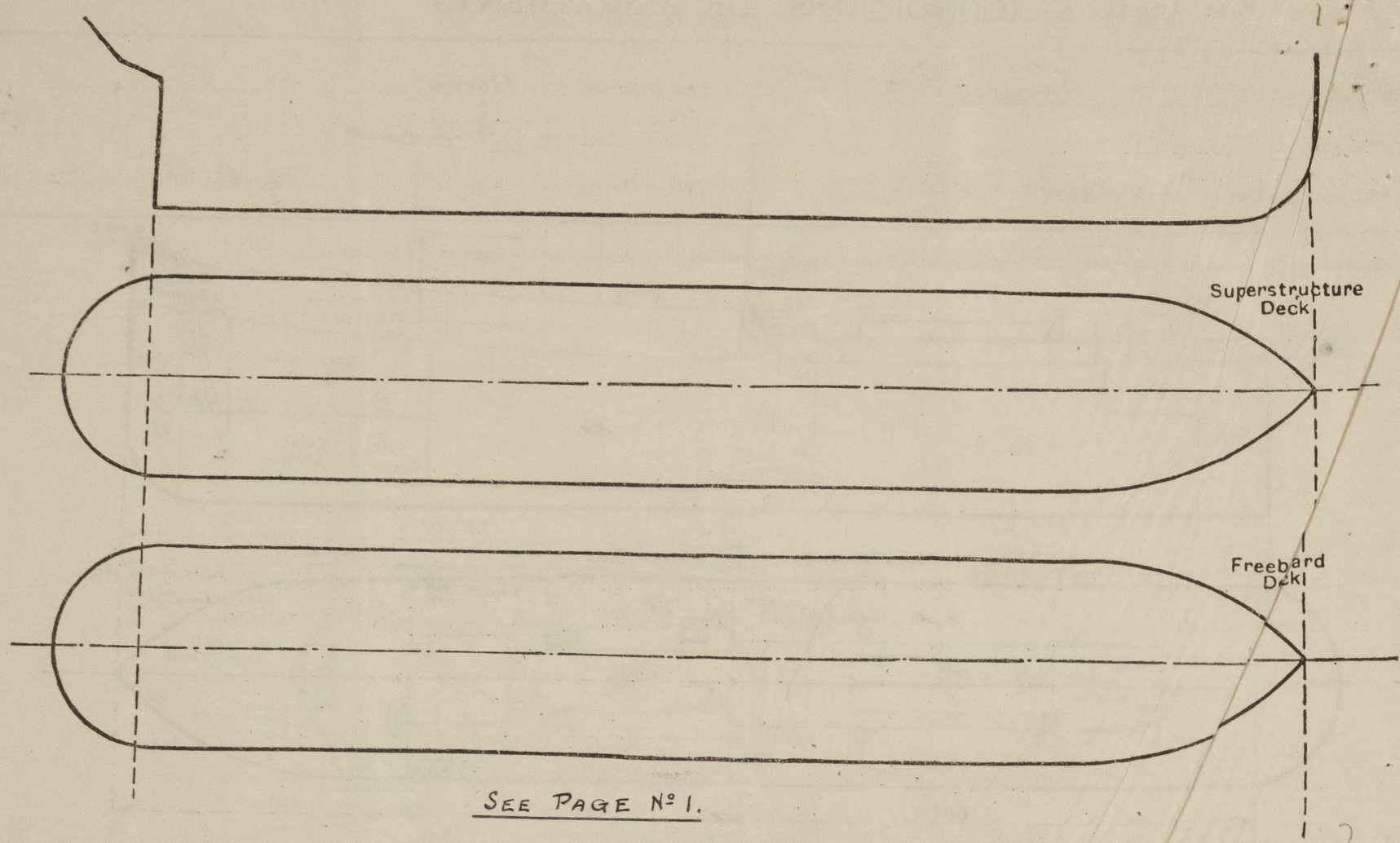
	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ...	NONE ✓							
Raised Quarter Deck Bulkhead ...	NONE ✓							
Bridge, After Bulkhead ...	NONE ✓							
BOAT DECK Bridge, Forward Bulkhead ...	✓	24"	2 1/2 x 2 1/8 x 3"	2'-1" To 2'-5"	✓	TWO - 1P & 1S. 2FT x 4'-7"	16 1/4"	7'-0" ✓
Forecastle Bulkhead ...	18" x 24"	20"	Could not be seen covered by wood lining		1 Top bracket at centre 15" x 15" x 30.	TWO - 1P & 1S. 2'-1" x 4'-10 1/2"	17"	7'-6" ✓
Trunk, Aft ...								
Trunk, Forward ...								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	✓	3'-6" x 24"	2 1/2 x 2 1/2 x 28"	24"	✓	Top brackets 15" x 15" x 24"	18"	6'-6" ✓
Exposed Machinery Casings on Superstructure Decks ...	✓							
Machinery Casings within Superstructures not fitted with Class I Closing Appliances <u>BOILER ROOM CASING UNDER BOAT DECK</u> ...	18" x 24"	20"	3" x 3" x 3"	2'-4" To 3FT.	Top brackets 12" x 12" x 25"	FOUR 2P & 2S 1-5.5 TO GALLEY 2'-0" x 5'-0"	18 1/2"	7'-8" ✓
Deckhouses on Flush Deck Ships <u>ABFT STEERING ENG. ROOM OPENINGS AT AFT END</u> ...						1 P.S. 2'-0" x 4'-6" 1 S.S. 2'-2" x 4'-6" 1 CENTRE 18" x 15"	18" 18" 3'-6"	6'-6" ✓

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

Poop Bulkhead ...	NONE.	Wheelhouse & Chart room. 2 openings 1P & 1S. Closed by hinged teak doors 25" x 4'-6" ht of sills 16"
Raised Quarter Deck Bulkhead ...	NONE	✓
Bridge, After Bulkhead ...	NONE	✓
BOAT DECK Bridge, Forward Bulkhead ...		2 steel doors 24" thick - hinged type. Closed by steel doors 1P & 1S. each having two steel hasp fasteners manipulated from both sides ✓
Forecastle Bulkhead ...		Two hinged white wood doors 1 1/2" thick - Knot & lock fastenings manipulated from both sides ✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...		Two hinged steel doors 1P & 1S. (In halves) 3" thick. Bottom halves bolt fastenings. Top halves Knot & lock worked from both sides. 2 hinged steel doors at aft end with hasp & lock fastenings access to store room & lamp room S.S. also small hinged steel door at centre aft with hasp fastening.
Exposed Machinery Casings on Superstructure Decks ...	NONE.	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances <u>BR CASINGS UNDER BOAT DECK</u> ...		4 hinged steel doors - 2 Ps to boiler top. 1 S.S. to boiler top & 1 S.S. to pump & fan room. thickness 22"
Deckhouses on Flush Deck Ships <u>ABFT STEERING ENG. ROOM</u> ...		Capable of been manipulated from both sides - ordinary Knot & Key fastenings ✓
		1 hinged steel door 22" in halves, low half bolt fastening top half Knot & Key ✓ to Galley
		All openings at after end of house (3) closed by hinged steel doors manipulated from both sides ✓

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:—



SEE PAGE N° 1.

Particulars of fiddley, funnel and ventilator coamings, engine room skylight and other openings in machinery casing tops and their means of closing:—
FIDDLER. Fiddley top & sides of steel, 2 strongly framed openings on fiddley top fitted with gratings & flanged steel storm covers, each having 2 hasp fasteners. Good Condition. 6 dia. 1. 4 ft. x 2 ft. 1 P. 1. S.
FUNNEL. The funnel is arranged with full height exterior casing. Good Condition.
VENTILATORS. 2 stokehold ventilators 1 P. 1. S. Dia. 24". Height of Coamings about 6 ft. thickness about 1 1/2". Good Condition.
 1 steel air intake - fixed mushroom type for forced draught fan engine. Dia. of Coaming 4 ft. ht. 10 1/2" x 1/4"
 Dia. of fixed mushroom cover 5' 10" x 1/4" ht. of free end above fiddley 10".
ENGINE ROOM. Engine Room skylight situated on casing on freeboard deck, strongly constructed of steel with 8 strongly constructed flanged steel hinged flaps. 4 P. 4 S. each having 2 - 10" dia. glass circles. } CONTINUED BELOW THUS: }
 Dimensions of openings:— 3' 3 1/2" x 2' 4".
 Particulars of Flush Bunker Scuttles:— 8 of cast iron screw down type. 4 P. 4 S. on freeboard deck. Grates are fitted. Chains are fitted.

Particulars of Companionways:— NONE.
 CONTINUED FROM ABOVE. **GALLEY.** Strongly constructed skylight over galley situated at port after end of fiddley casing, having 2 hinged steel flaps each with 1 - 8" dia. glass circle. 2 - 6" dia. mushroom vents to galley.

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—
 2. 12" vents to engine room situated on freeboard deck. ht. of coamings 18" by about 1/4". Wood plugs & canvas covers to be fitted. On freeboard deck, under partially enclosed boat deck - 3 - 4" swan neck vents to bunkers viz 2 S.S. & 1 P.S. ht. of free ends 1' 10 1/2" - alongside bulwarks. Clear of boat deck. 2 - 4" swan neck vents to bunkers viz 1 P.S. & 1 S.S. ht. of free ends 1' 10 1/2" - alongside bulwarks.
 2 - 4" swan neck vents to bunkers viz 1 P.S. & 1 S.S. ht. P.S. 1' 10 1/2" ht. S.S. 6 1/2" alongside bunker hatch.
 On fore-castle deck. P.S. One 4" swan neck to crew's quarters ht. 9 1/2". One 4" swan neck to store room ht. 9 1/2".
 S.S. One 4" swan neck to crew's quarters, ht. 9 1/2". 1 - 4" S.N. vent to store room ht. 9 1/2". 1 - 4" S.N. vent to F.W. tank compartment. ht. 23".
 On Boat Deck & Fore-castle Extension. P.S. One 4" S.N. vent to F.W. tank compartment. ht. 7". One 4" S.N. vent to WC. ht. 23".
 On fore-castle deck. Six mushroom vents to accommodation, 6" dia. ht. of coamings 2' 8" viz 4 P.S. & 2 S.S.
 Two ventilators with steel caps covers. viz 1 P. & 1 S. Dia 6" ht. of coamings 2' 8"
 On fiddley top. Two 6" dia. mushroom vents to galley on P.S. ht. about 6". One 4" swan neck vent to fire pump room on S. side. ht. of free end 12". One steel air intake for fan engine as mentioned above.
 Wooden plugs are fitted for closing swan neck ventilators.

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—
Fore-castle Deck. One 4" swan neck air pipe to F.P.T. height of free end 6".
Freeboard deck. Two 4" swan neck air pipes to R.P.T. viz 1 P. & 1 S. height of free end 1' 10".
 Two 3" swan neck air pipes to D.B.T. viz 1 P. height of free end (21 1/2") & 1 S. ht. of free end (18 1/2")
 Fitted with wood plugs for closing.

Particulars of Gangway Cargo and Coaling Ports:— NONE.

Particulars of Scuppers and Sanitary Discharge Pipes:— **SCUPPERS.** Fore-castle deck. Two 2 1/2" scuppers, under deck type discharging 2' 10 1/2" above foreboard deck. **Freeboard deck.** Four 3" dia. scuppers each side with discharge 16" below the freeboard deck.
SANITARY DISCHARGES. 2 - 5" WC discharge pipes - 1 P. & 1 S. discharging 3' 3" below the freeboard deck.
 Storm Valves in efficient condition at ship's sides.

Particulars of Side Scuttles:— Six 9" dia. side scuttles each side, 2 ft. below fore-castle deck to bottom of circle. 2 - 9" dia. side scuttles each side, 2' 8" below the freeboard deck to bottom of circle. All side scuttles are fitted with efficient deadlights permanently attached.
 Deck house on freeboard deck above Engine Room Casing. Three scuttles each side 12" dia. fitted with efficient deadlights. Height above deck 4' 5 1/2".
 Fiddley Casing on freeboard deck. Four scuttles viz 1 P.S. 1 S.S. 1 P. & 1 S. at after ends 12" dia. fitted with efficient deadlights. 1 ft. above deck 5 ft.
 Chart Room & wheel house. Arranged with 4 rectangular windows at forward end 18" x 24" ht. of sill above fore-castle deck 4 ft. Protected by portable dead lights. 4 rectangular windows each side 1' 5" x 1' 11".

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

Particulars of Guard Rails:— Guard rails are fitted at fore-castle, height 3 ft. having 2 - 1 1/8" rails, & stanchions dia. 1 1/2" spaced 4' 2" to 5 ft.
 Bulwarks are fitted in way of after deck.

Particulars of Gangways, Lifelines, etc.:— NONE. Hand rails are fitted each side of machinery casings.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well FROM F.E.L. to RUDDER POST	104' 5" 101' 8"	3' 6 1/2"	2' 6" x 1' 0"	5 viz. 2 in way of boat deck covered spaces & 3 in way of after hull	12.5 sq ft	10.5 12.5 for boat length.
Forward Well	NONE.	2	2 Ash doors are fitted in bulwarks 1' 7 1/2" x 1' 9"	1 P. & 1 S.	2.8 sq ft	
State position of each freeing port ... Fwd F.E.L. 9' 0" 16' 6" 20' 0" 16' 10" 17' 8" 21' 8" STERN P.T. AFT. (F. and A. position and height above deck edge) } Forward Well: 9 1/2' } Length of exposed Bulwark is 61' 10" above end of Boat deck with closed sides. Length of closed in bulwark from f.e.l. to end of fiddley casing = 40 ft.						
State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— Freeing ports are fitted with swinging shutters.						
Additional area where sheer is less than standard.						

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

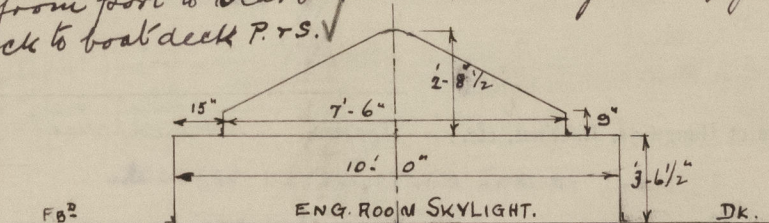
		HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.			
		ON FB ² DK.	OF FB ² DK	ON FCL ² DK	ON FCL ² DK
		COAL BUNKER	TO CHAIN LOCKER	TO PETTY OFFICER'S QUARTERS	TO CREWS QUARTERS
Description of Hatchway					
Dimensions of Hatchway		5'6" x 10'-0"	24" x 24"	24" DIA	24" x 30"
COAMINGS	Height above Deck	3'-0" ✓	12" ✓	13" ✓	18" ✓
	Thickness	24" ✓	24" ✓	24" ✓	24" ✓
	Sides				
	Ends				
Stiffeners					
Brackets, Stays					
HATCH BEAMS	Number				
	Spacing				
	Scantling and Sketch				
	Bearing Surface	NONE ✓	Situated inside closed fore-castle. ✓		Fitted with hinged steel covers having two 3/4" wing nut fasteners, 2 cleats each side & one 10" dia glass circle ✓
FORE AND AFTERS	Number				
	Spacing				
	Unsupported Lengths				
	Scantling* and Sketch	NONE ✓			
Bearing Surface					
HATCH COVERS	Material	WOOD ✓	WOOD ✓	JOINTED STEEL COVER ✓	
	Thickness	2 1/2" ✓	2 1/2" ✓	HAVING 4 ✓	
	How fitted	F & A ✓	ATHW. ✓	7/8" SCREW ✓	
	Bearing Surface	2 1/2" ✓	2 1/2" ✓	DOWN ✓	
Fasteners				FASTENERS.	
Spacing of Cleats		1'-9" ✓	✓		
Number of Tarpaulins		2 ✓	✓ One		

*Are wood fore and afters steel shod at all bearing surfaces? ✓
 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? One ring is fitted each side of bunker hatch.

Particulars of any special features:— The boat deck is completely closed in on port & starboard sides by steel plates about 2" thick in extension of & in line with bulwark plating - arranged with three openings each side 4ft x 3ft closed by top hinged doors each having 2 - 3/4" wing nut fasteners & one fore & aft strongback or angle dog secured by one 3/4" bolt at each end. The after door each side is arranged with one 11" dia glass circle & 3 - 11" glass circles each side are fitted in side plating having sills 5'-2" above freeboard deck. These casing plates are stiffened by vertical angles 2 1/2" x 2 1/2" x 6'24" spaced about 14"9" with intervening circular pillars 2" dia. supporting boat deck.

Cabin skylights on fore-castle deck strongly constructed of steel & permanently closed, having eight 10" glass circles viz 3 fwd, 3 aft & 1 P & S. The fwd & P & S circles can be closed by portable deadlights.

A strongly constructed steel bulkhead is constructed at forward end & in line with the chart room & wheel house on the boat deck, extending from port to starboard sides, having strongly constructed doors & frames giving access from fore-castle deck to boat deck P & S.



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.

Vessel surveyed afloat & in dry dock
 This vessel is to be employed on national & International Voyages
 and the owners state that they do not desire any reduction of
 freeboards.

J.M.