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Rpt. C.11.

Nº 8048

## LLOYD'S REGISTER OF SHIPPING

Index No. \_\_\_\_\_  
(For London Office only.)

UNITED WITH THE BRITISH CORPORATION REGISTER

## SURVEYS FOR FREEBOARD.

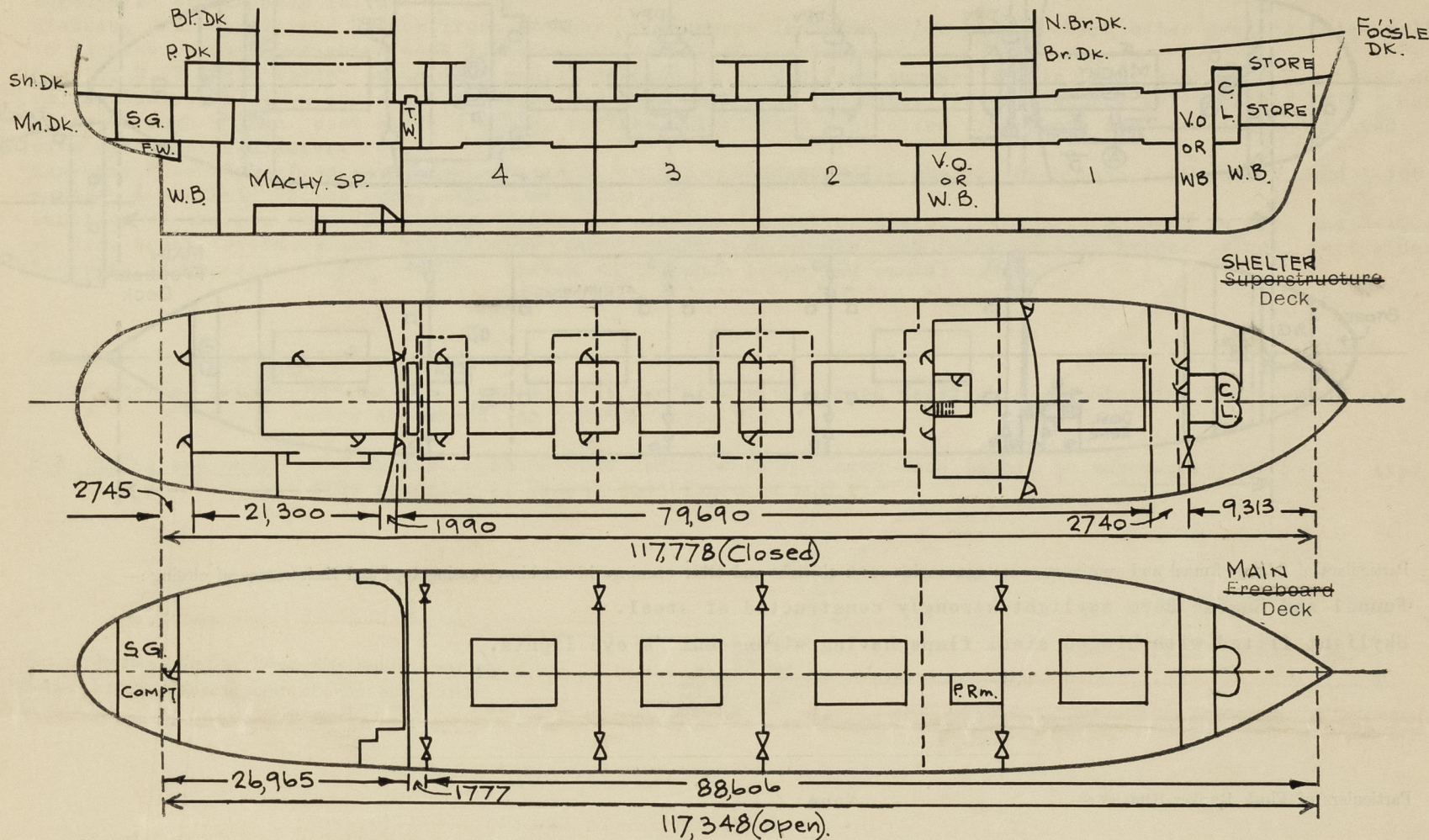
(CONDITIONS OF ASSIGNMENT.)

Ship's Name..... " P A R A N A G U A " ..... Port of Survey..... Helsingfors (Helsinki) .....

Official Number..... Surveyor's Signature..... W. G. M. Culloch. ....

Nationality and Port of Registry..... Brazilian, Rio de Janeiro. .... Date of Survey..... During construction .....

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



Particulars of Superstructures, Trunks, Casings, Deckhouses. (Dims. in mm)

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height, Beam to Beam
Bridge aft. } CSO								
Front Bulkhead ...	11.0 ✓	11.0 ✓	220 x 10 B.P. ✓	670 ✓	Welded T&B	2 at 1350 x 700	610 ✓	2438 ✓
End Bulkhead ...	7.5 ✓	7.5 ✓	100 x 50 x 8 I.A. ✓	650 ✓	Bkt.T. welded B.	2 at 1350 x 700	610 ✓	2438 ✓
Tonnage well aft Bhd. } CSO	7.0 ✓	7.0 ✓	300 Corr. Bhd. 575 ✓	-	-	None	-	3381 ✓
Tonnage well ford. Bhd. } CSO	7.0 ✓	7.0 ✓	150 780 ✓	-	-	2 at 1290 x 985	610 ✓	3378 ✓
Forecastle Bulkhead... CSO ...	7.5 ✓	7.5 ✓	75 x 55 x 7 I.A. ✓	550-750 ✓	Free T. & B.	2 at 1350 x 700 1 at 1590 x 1290	610 ✓	2286 ✓
Deckhouse on Shelterdeck	8.5 ✓	8.5 ✓	130 x 65 x 8 I.A. ✓	760 ✓	Welded T.free B.	None	-	2743 ✓
Deckhouse on Shelterdeck	7.0 ✓	7.0 ✓	100 x 50 x 8 I.A. ✓	760 ✓	Free T. and B.	1 at 1550 x 700 2 at 1350 x 700	610 ✓	2743 ✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks...								
Exposed Machinery Casings on Superstructure Decks Shelterdeck.	6.5 ✓	6.5 ✓	75 rad ✓	730 ✓	-	2 at 1700 x 670	230 ✓	2438 ✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances on Shelterdeck								
Deckhouses and Pump Room Entrances Sides.	8.0 ✓	8.0 ✓	100 x 65 x 9 I.A. ✓	700 ✓	Free T. and B.	None	-	2743 ✓

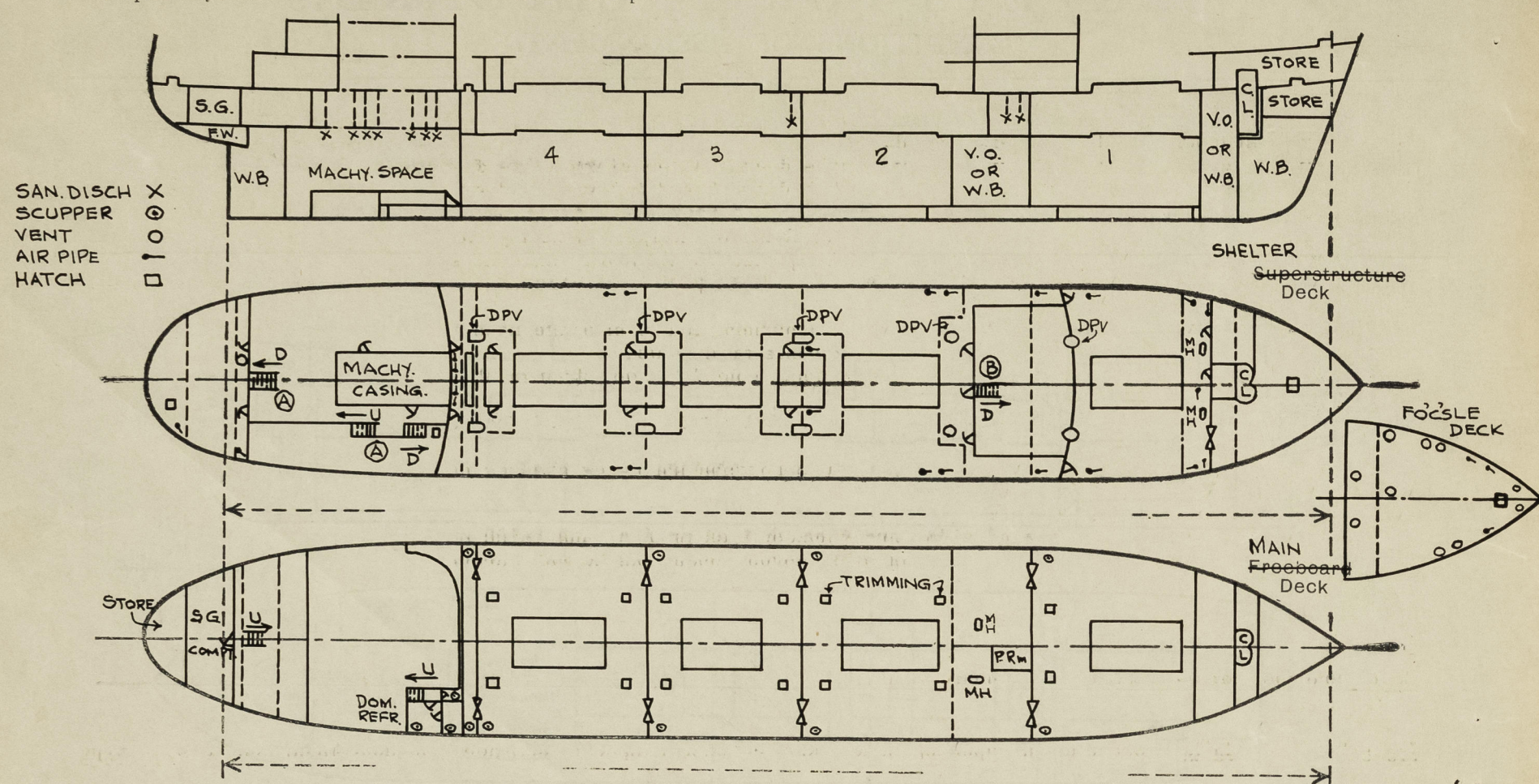
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Front/ Bridge Aft Bulkhead ... } CSO	Hinged steel watertight doors, operated both sides ✓	Class I ✓
End Bulkhead ... } CSO	Hinged steel watertight doors, operated both sides ✓	Class I ✓
Raised Quarter Deck Bulkhead ... } CSO	Portable steel plated on hook bolts ✓	Class II ✓
Tonnage Well Ford. Bhd. ... } CSO	-	
Bridge Aft Bulkhead ... } CSO	Hinged steel watertight doors, operated both sides ✓	Class I ✓
Bridge, Forward Bulkhead ...	Portable steel plate on hook bolts ✓	Class II ✓
Forecastle Bulkhead ... CSO ...	-	
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	Hinged steel doors, operated both sides ✓	Class I ✓
Exposed Machinery Casings on Superstructure Decks Shelterdeck ...	-	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	Hinged steel watertight doors, operated both sides. ✓	Class I ✓
on Shelterdeck	Hinged hardwood doors, 2" thick, operated both sides. ✓	Class II ✓
Deckhouses and Pump Room Entrances Aft Bulkhead		



# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

The following diagrams should be used to indicate the positions of cargo and coaling hatchways, gangways, cargo and coaling ports, side scuttles, scuppers, ventilators, companionways, etc., which would affect the seaworthiness of the ship :-



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

Funnel and Engine Room skylight strongly constructed of steel.

Skylight fitted with hinged steel flaps having strong bull's eye lights.

Particulars of Flush Bunker Scuttles :-

None.

Particulars of Companionways :-

(including those incorporated in deckhouses and masthouses)

A) Companionway to steering gear compartment, and to Domestic Refrigerated store enclosed in strong steel Poop. Hinged steel watertight doors, operated both sides, 1350 x 700, sills 610.

B) Companionway to Pump Room enclosed in strong steel deckhouse on Shelterdeck. Hinged steel watertight door, operated both sides, 1350 x 700, sill 610.

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

Shelter Deck:- 300 r  
3 pairs of Derrick post vents, 14,000 high x 17.5 thk. with bolted cowl head; adequately supported.  
2 pairs of Derrick post vents, 565 dia., 14,000 high x 17.5 thk., with bolted cowl head; adequately supported.  
1, 400 mm dia., 3500 high x 9.5 thk., with bolted cowl head, adequately supported.

Poop Deck:-  
2, 400 mm dia., 3500 high x 9.5 thk., with bolted cowl head; adequately supported.

Forecastle Deck:-  
2, 450 mm dia., 2160 high x 10 thk., with bolted cowl head; adequately supported.

1, 250 mm dia., 1500 high x 8 thk., with bolted cowl head; adequately supported.

1, 250 mm dia., 1570 high x 8 thk., cowl head, adequately supported; wood plug and canvas cover.

5, 75 mm dia., G.N.V. 915 high x 4 thk. (Huber No 50 gaspipe). 1, 75 dia. cowl head, 915 high x 4 thk. (Huber No 50 gaspipe) Steel screwed plug.

Forecastle Deck:-

3 - 4" dia. x 460 high

Shelter Deck:-

4 - 2 1/2" dia. }

10 - 4" dia. }

8 - 5" dia. }

4 - 6" dia. }

Poop Deck:-

2 - 4" dia. x 460 high

Winch Bridges:-

1 - 4" dia. }

1 - 5" dia. }

x 915 high

x 460 high.

Air pipes fitted with ball

check valve and wire gauge.

("A.G.Weser" type).

No 1 (From Ford.) Winch Bridge:- 2-185 dia. 500 high x 7.5 thk. cowl, wood plug and cover.  
1-315 dia. 500 high x 8.5 thk. bolted cowl canvas cover.

2-305 dia. 2500 high x 8.5 thk. adequately supported, bolted cowl, canvas cover.

No 2 Winch Bridge:- 2-185 dia., 500 high x 7.5 thk. cowl, wood plug and cover.

2-200 dia. 440 high x 7.5 thk. bolted cowl, canvas cover

2-305 dia. 2500 high x 8.5 thk. adequately supported, bolted cowl head, canvas cover.

No 3 Winch Bridge:- 1-97 dia., 500 high x 7.5 thk. cowl, plug and cover.

1-115 dia., 600 high x 7.5 thk. bolted cowl, canvas cover.

Particulars of Gangways and Coaling Ports :-

None.

Particulars of Scuppers and Sanitary Discharge Pipes :-

7-95 mm dia. scuppers (P&S) from exposed shelter deck } led overboard below shelter deck;  
1-95 mm dia. scupper (P&S) from exposed forecastle deck } no storm valve fitted.  
2-1 1/2" dia. scuppers (P&S) from exposed poop deck led overboard below poop deck, no storm valve fitted. Focse store on shelter deck, lamp and paintrooms, CO2 room and deck store rooms on shelter deck drained by 2" dia. drain holes fitted with brass screwed plug having chain attachment, Laundry on shelter deck drained by 2 1/2" dia. scupper led overboard below shelter deck through 2 1/2" dia. c.s. storm valve at ships side.  
Chain locker and lower Fore Peak store drained by 2" hand pump with discharge led overboard above shelter deck through 2" bronze stop valve.  
Steering gear compt. and Rudder Trunk drained by scuppers led from bilge hats through after peak to bilge well in machinery space; weighted cock fitted at outer end of discharge.  
Nos. 1, 2, 3 and 4 cargo 'tween deck spaces drained to hold bilges through 4" dia. cast steel S.D.N.R. surface valves controlled from above shelter deck and with open-shut indicator fitted. Tonnage well drained to No 4 hold bilge through 5" dia. cast steel S.D.N.R. surface valve (P&S) controlled from above shelter deck and fitted with open-shut indicator.  
Sanitary discharges from amidships accommodation led overboard below shelter deck with 1-65 mm dia. and 1-100 mm dia. (both P&S) bronze storm valves at ships side.  
Sanitary discharges from aft accommodation led overboard below Main deck level through 3-65 mm dia. and 2-100 mm dia. bronze storm valves, starbd. side, and through 1-65 mm dia. and 1-100 mm dia. bronze valves, port side.  
Scuppers in domestic refrig. compts. fitted with syphon traps and swivel covers.

Particulars of Side Scuttles & Deadlights :-

Below Shelter Deck:- 355 mm dia. opening side scuttles with hinged deadlights, to Steering Gear Compt. and to crew accommodation, M.O.T. type No 4.

Poop Sides and Ends: 355 mm dia. opening side scuttles with hinged deadlights, to accommodation. M.O.T. type No 5. Side scuttles of brass, deadlights of M.C.I.

Vertical distance of Sill of lowest Side Scuttle above top of keel 9,753 mm  
Distance from amidships to centre of lowest Side Scuttle 51,054 mm.

Particulars of Guard Rails & Bulwarks :-

Shelter Deck:- Plate bulwark, 1100 high x 6.5 thick with 200 x 90 x 10 B.A. rail and 2" x 3/4" H.R.B., plate stays, 9.5 thick, with 75 flange, spaced 1460 apart.

Focse Deck:- Plate bulwark, 1070 high x 9.0 thick with 200 x 10 B.P. rail. Plate stays 9.5 thick with 90 flange, spaced 800 apart. 3 guard rails and stanchions at after end 1070 high, spaced 1100 apart.

Poop Deck:- Substantial bulwark, with 3 guard rails and stanchions at after end, 1070 high, spaced 1100 apart.

Particulars of Gangways, Lifelines, etc. :-

Provision made for fitting lifeline P and S from poop front to bridge house and from bridge house to forecastle.

## Particulars of Freeing Arrangements.

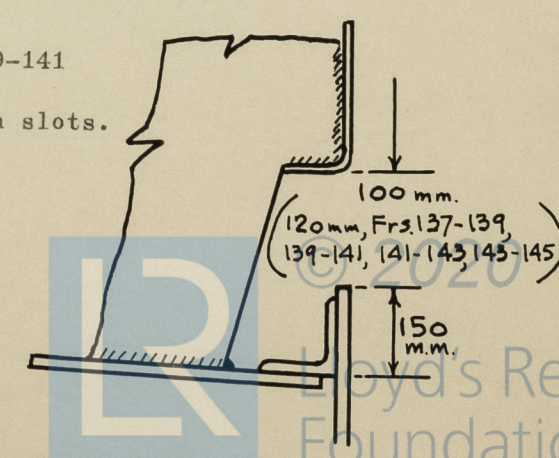
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well (Fr. 125-136)	58.400 m 66,400 mm	1100 mm	See Sketch	One	5.183 6,950 m <sup>2</sup>	4.8 m <sup>2</sup> (CSO)
Forward Well (Fr. 137-145)	13.880 m 17,900 mm	1100 mm		Four	1,313 m <sup>2</sup>	1.31 m <sup>2</sup> (CSO)

State position of each freeing port ... After Well:- Fr. 125-136

(F. and A. position and height above deck edge) Forward Well:- Fr. 137-139, 139-141, 141-143, and 143-145.

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such :- open slots.

Additional area where sheer is less than standard. -





PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS. On Shelter Deck										On Focusle Deck
Description of Hatchway	N° 1 Cargo	N° 2 Cargo	N° 3 Cargo	N° 4 Cargo	To Focusle Store	To Refr. Store	To Store Aft	To Tonnage Well	To Fwd. Deep Tanks	To Focusle Store
Dimensions of Hatchway	8895 x 6490	10210 x 6490	10210 x 6490	10210 x 6490	600 x 600	705 x 705	600 x 600	1300 x 6490	450 x 350 Oval M.H.	1000 x 1000
COAMINGS	Height above Deck	1000	850	850	850	610	230	610	70	610
	Thickness	11	11	11	11	8	8	8	12.5	8
	Stiffeners	11 sp 2740	11 sp 2920	11 sp 2920	11 sp 2920	11 sp 1625	11 sp 1625	11 sp 1625	11 sp 1625	11 sp 1625
	Brackets, Stays	11 sp 1625	11 sp 1625	11 sp 1625	11 sp 1625	11 sp 1625	11 sp 1625	11 sp 1625	11 sp 1625	11 sp 1625
HATCH BEAMS	Number	MacGregor steel W.T. covers,								
	Spacing	fitted in 6 sections (5 at N° 1).								
	Scantling and Sketch	Top plating 8.0 or 8.5 mm, side and end plating 8.0 mm.								
	Bearing Surface	One transverse web at centre of each section, 280 (140 at side) x 8.0 mm with 180 x 17 Face Flat.								
FORE AND AFTERS	Number	Long. web on centre line 280 x 8 mm with 90 x 15 Face Flat.								
	Spacing	End plating of each section 8.0 mm thick.								
	Unsuported Lengths	Access manhole in after section of each cover, 600 x 420; steel cover, 8.5 mm thick, hinged W.T., secured by 4 clips.								
	Scantling* and Sketch									
HATCH COVERS	Material	All in accordance with approved plans.								
	Thickness									
	How fitted									
	Bearing Surface									
Spacing of Cleats	990 max. (450 from corners).									
Number of Tarpaulins	None									
Spacing of cross joint wedges	1220 max. Rising pieces fitted.									
*Are wood fore and afters steel shod at all bearing surfaces? -										
Are battens and wedges efficient and in good condition? -										
Are tarpaulins in good condition and in accordance with rule requirements? -										
Are lashings provided in accordance with rule requirements? -										
Are wood covers fitted with galvanised end bands? -										

Particulars of any special features:— (Timber Deck-cargo Fittings, Skylights, Sewage Systems, Ash Ejectors, Rubbish Shoots, etc.)

Tonnage Hatch (Closed Condition)

Steel plate provided, to be welded over hatchway: 9 mm thick, stiffened by 4 - 180 x 9 B.P. stiffeners F. and A., and 1 - 200 x 11 B.P. stiffeners transversely. Access hatch 600 x 600, coaming 610 above shelter deck, 8 mm thick; cover plate 8 mm thick., hinged W.T., secured by 4 clips.

Closing appliances of openings in 'tween decks bulkheads.

Portable steel plate, 7 mm thick, adequately stiffened with 7/8" dia. hook bolts spaced 305 mm apart, rendered watertight for "closed" condition by insertion of 60 mm x 13 mm rubber packing.

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON MAIN DECK FREEBOARD AND SUPERSTRUCTURE DECKS										
Description of Hatchway	N° 1 Cargo	N° 2 Cargo	N° 3 Cargo	N° 4 Cargo	Trimming 14 off	To Deep Tanks				
Dimensions of Hatchway	8900 x 6100	10220 x 6100	10220 x 6100	10220 x 6100	680x680	2 at 450 x 350 oval M.H.				
COAMINGS	Height above Deck									
	Thickness									
	Stiffeners									
	Brackets, Stays									
HATCH BEAMS	Number									
	Spacing									
	Scantling and Sketch									
	Bearing Surface									
FORE AND AFTERS	Number									
	Spacing									
	Unsuported Lengths									
	Scantling* and Sketch									
HATCH COVERS	Material									
	Thickness									
	How fitted									
	Bearing Surface									
Spacing of Cleats										
Number of Tarpaulins										
Spacing of cross joint wedges										
*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? -										
Are wood covers fitted with galvanised end bands? -										

Particulars of any special features:— (Timber Deck-cargo Fittings, Skylights, Sewage Systems, Ash Ejectors, Rubbish Shoots, etc.)

NOTE: Ventilator tubes in N° 1 'tween decks (fr. 127 P and S) and N° 2 'tween decks (fr. 114/115 P and S) are portable. Opening in main deck is 320 mm dia. Closing appliance when tube is removed is 470 mm dia. steel plate, 8.5 mm thick secured W.T. by 12 - 3/4" dia. studs. Tube is secured in position, W.T. by 12 - 3/4" dia. studs.