

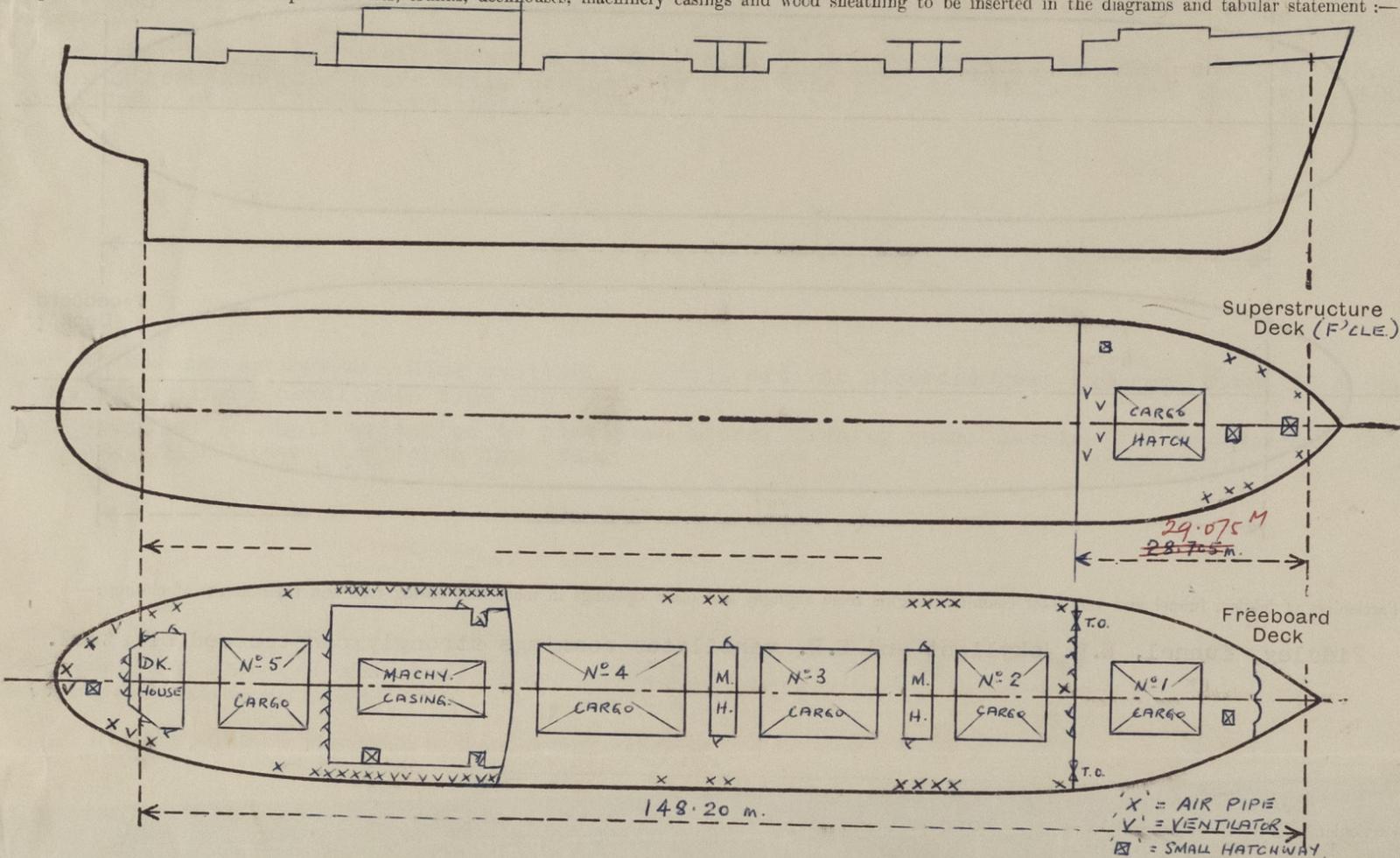
LLOYD'S REGISTER OF SHIPPING

Index No. _____
(For London Office only.)

SURVEYS FOR FREEBOARD (CONDITIONS OF ASSIGNMENT)

Ship's Name **"COSMONAUT"** Port of Survey **Copenhagen**
 Official Number _____ Surveyor's Signature *Thamoflas*
 Nationality and Port of Registry **Russian. Odessa** Date of Survey **whilst building**

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.

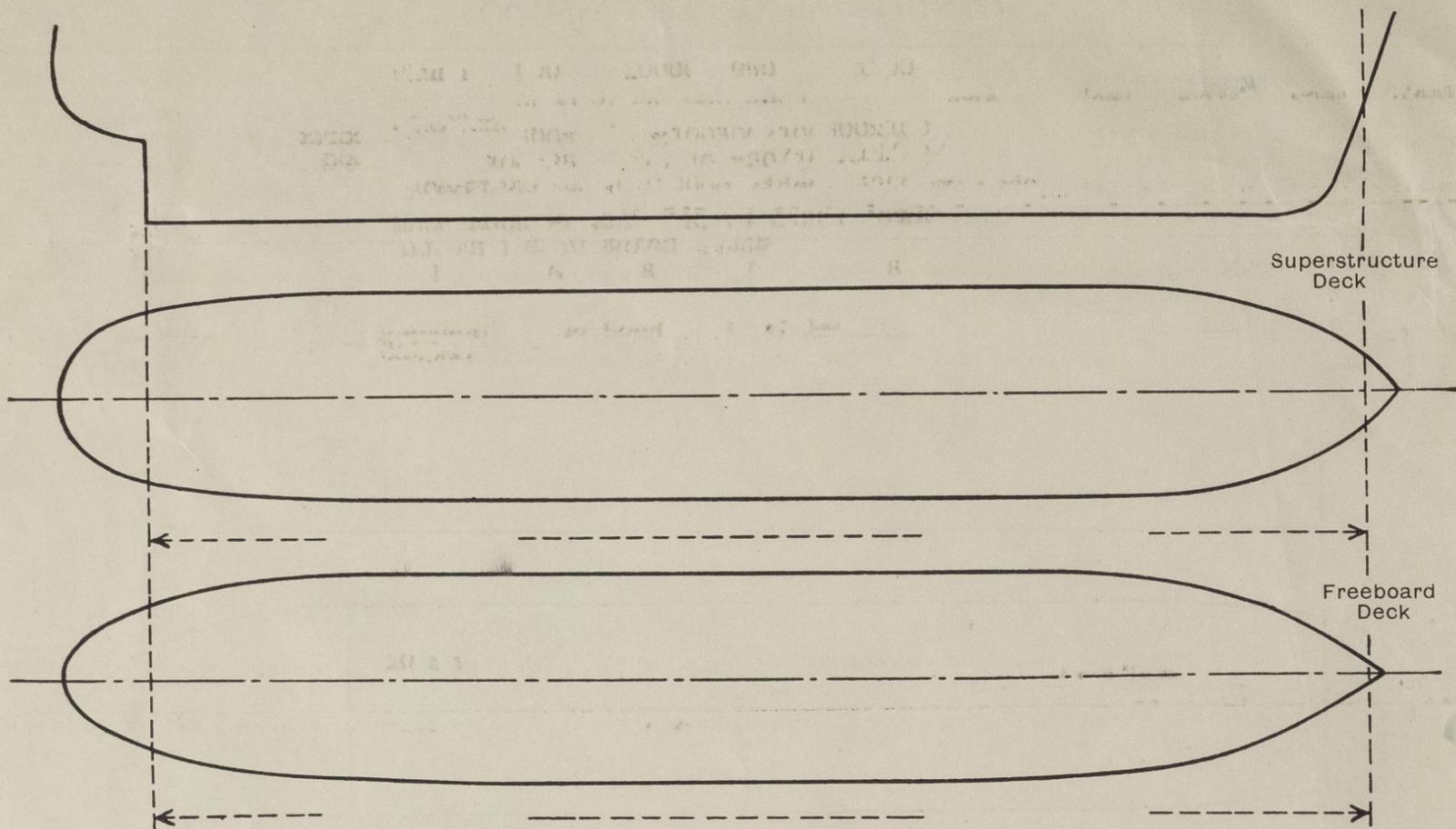
	Coaming mm	Plating mm	Stiffeners mm	Spacing mm	End Attachments of Stiffeners	Size of Openings mm	Height of Sills mm	Height, Beam to Beam mm	
Poop Bulkhead ...	None								
Raised Quarter Deck Bulkhead ...	None								
Bridge, After Bulkhead ...	None								
Bridge, Forward Bulkhead ...	None					2at 1665x650 2at 1390x950 2at 1290x650	310 610 685		
Forecastle Bulkhead ...		7.5 ✓	100 x 6 HP ✓	760max	Sniped T&B	1at 1665x750	310 ✓	2450	
<i>Deckhouse</i> Trunk, Aft ...	AFT. END SIDES FORD. END	8.0 ✓ 9.0 ✓ 9.0 ✓	120 x 8 HP ✓ 150 x 8 DDS ✓ 180 x 8 DDS ✓	800 " ✓ 800 " ✓ 800 " ✓	" " "	T&B T&B top	1at 1290x750 1at 1665x650 5at 1665x750	685 ✓ 310 ✓ 310 ✓	2800
Trunk, Forward ...	None								
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	None								
Exposed Machinery Casings on Superstructure Decks ...	None								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	AFT. END	8.5	150 x 8 DDS	800max	Sniped T&B	4at 1290x650 5at 1290x750	685 ✓ 685 ✓		
<i>Midships</i> Deckhouses and Pump Room Entrances	SIDES FORD. END	9.5 10.0	150 x 10 DDS 200 x 9 DDS	850 " ✓ 800 " ✓	" E.W. T&B	1at 1310x970 1at 1820x1310	685 ✓ 685 ✓	2450	

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

DEKHOUSE AFT. Poop Bulkhead ...	1 hinged steel W.T. door & 6 hinged steel weathertight doors all O.B.S.
Raised Quarter Deck Bulkhead ...	-
Bridge, After Bulkhead ...	-
Bridge, Forward Bulkhead ...	-
Forecastle Bulkhead ...	2 with hook bolted steel plates 2 with hinged steel W.T. doors (O.B.S.)
Exposed Machinery Casings on Freeboard or Raised Quarter Decks ...	3 with hinged steel doors (O.B.S.)
Exposed Machinery Casings on Superstructure Decks ...	
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ...	
Deckhouses and Pump Room Entrances	10 hinged steel W.T. doors, 1 hinged steel weathertight door, all O.B.S.

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, side scuttles, scuppers, ventilators, companionways, etc., which would affect the seaworthiness of the ship :-



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

Fiddley, funnel, E.R. skylight and E.R. ventilator coamings strongly constructed of steel.

Particulars of Flush Bunker Scuttles :- None

Particulars of Companionways :- Access to steering gear, tunnel escape and access hatch to No.5 Hold, enclosed (including those incorporated in deckhouses and masthouses) in strong steel dk.house aft (see page 1)
 Access to machinery space and No.4 Hold enclosed in Midship deck house (see page 1)
 Access to Nos. 2,3 & 4 Holds enclosed in strong steel mast houses, with H.S.W.T. doors, sill heights 685 mm, capable of being operated from both sides.
 Access to Nos. 1 and 2 Holds in Forecastle (see page 1)

No access door to any Companionway has a sill height of less than 610 mm.

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

On Forecastle Deck:- 1-254 mm dia. cowl vent to Focle store coaming 915 mm high x 8mm thk.
 Vents to Nos. 1 & 2 Holds, 1 at 700 x 700 mm } Coamings 915mm high x 10 mm thk
 2 at 800 x 800 mm } with fans and W.T. dampers.
 1 at 1365 x 1050 }

Upper Deck: All hold vents sited on mast, house tops or above deck house tops.
 coamings 610 x 10 mm
 13 - 4" dia. G.N. vents to stores fitted with hinged W.T. flaps, all 36" high.
 All hold vents fitted with cowls incorporating fans and W.T. dampers.
 Cowl vents supplied with plugs and canvas covers.

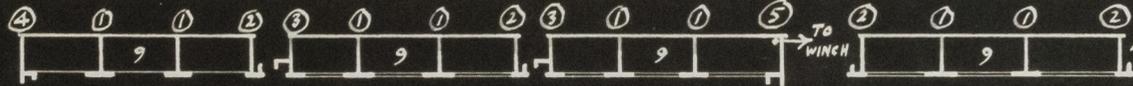
Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks :-

On Forecastle deck:- 5 at 4" diam., and 2 at 3" dia., all 915 mm high

On Upper Deck:-
 5 at 2" dia., }
 3 at 2 1/2" dia., } All 915 mm high
 6 at 3" dia., }
 3 at 3 1/2" dia., }
 28 28 at 4" diam., }

Note:- All O.F. tank air pipes fitted with flash proof gauges. All air pipes fitted with "VIWEL" or B&W type N.R. heads (Ball type)



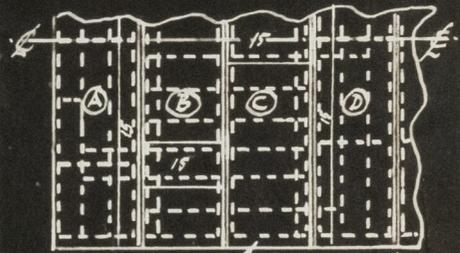


SYMMETRICAL COVER HATCHES 3&4 ONLY.

EXPOSED MACGREGOR COVERS.

		FO'CSLE DK.		UPPER DECK		
		1	2	3	4	5
TOP PLATING EXCEPT AS (A)		← 7 →		← 7.5 →		
" (A) (COVER NEAREST WINCH.)		← 7 →		← 7.5 →		
TRANSVERSES (1)	WEB	340/170 x 9	← 370/200 x 9 →			
	FACE PLAT	180 x 14	180 x 23	180 x 24	180 x 23	180 x 24
" (2&3)	WEB	340/170 x 9	← 370/200 x 9 →			
	FACE PLAT	90 x 14	90 x 23	90 x 24	90 x 23	90 x 24
" (4)	WEB	390/210 x 10	← 420/250 x 10 →			
" (5)	WEB.	410/240 x 10	← 440/270 x 10 →			
FORE & AFT :-	INTERCOSTAL WEB.	340 x 9	← 370 x 9 →			
	FACE PLAT	90 x 14	90 x 23	90 x 24	90 x 23	90 x 24.
← ALL COVERS EXCEPT THAT FARTHEST FROM WINCH. →						
SIDE FORE & AFT PLATE.		240 x 10	← 270 x 10 →			
JOINTING ANGLES.		← 75 x 90 x 8 →				

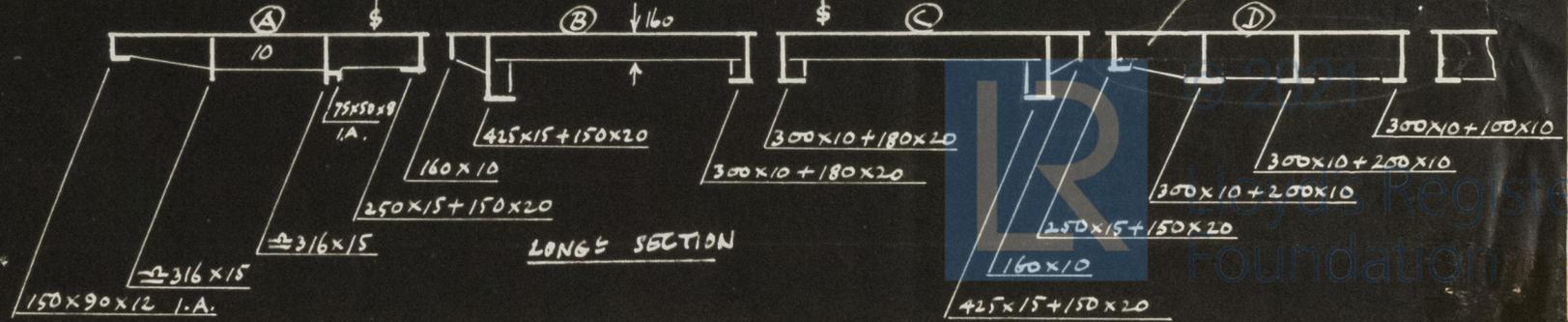
COVERS - TOP PLATING 8 (IS WHERE MARKED)



1/4 PLAN.

FLUSH MACGREGOR COVERS IN FO'CSLE.

(DRAWN FOR AFT HALF OF HATCH ONLY. FORD COVERS ARE MIRROR IMAGE)



LONG SECTION

Carbon FR webbing
OF HATCH.
← AFT FORD →
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127.6 m	1.140 m	114.5 m x 125 mm	one	14.52	(.2) M.
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Cameronaut

Particulars of Gangway Cargo and Coaling Ports :— None

Particulars of Scuppers and Sanitary Discharge Pipes :— All tween decks drained to Hold bilges thro' 2½" scuppers (P&S) Focle space drained thro' 2½" scupper (P&S) drained to Hold bilges and thro' 1½" dia., drain holes in Forecastle bulkhead with screwed plugs and chains. Recess for No.1 cargo hatch covers on upper deck inside Focle drained by 2 - 2" dia., scuppers (1P & 1S) led overboard below upper deck with S.D.N.R.V.'s at shell operated from Focle deck with O.S. in dicators.

Galley and sink drained overboard thro' shell by 3½" dia. scupper with N.R.V. at shell. Deckhouses and mast houses drained to upper deck by 1½" dia., holes with screwed plugs and chains. All W.C.'s and toilets etc., drained to sewage tanks and then pumped overboard through shell (P&S) with S.D.N.R.V.'s at shell.

F'cle lower stores and chain locker drained by S.R. hand pump discharging thro' shell with N.R.V.'s steering gear and rope store aft., drained by S.R. hand pump discharging thro' shell with N.R.V.'s Focle upper stores drain into chain locker.

Particulars of Side Scuttles and Deadlights :— Side scuttles in shell aft. to steering gear and rope store 3P & 3S, 12" dia., with hinged deadlights type BS4

Side scuttles in shell amidships to provision store, ironing room, laundry and drying room 3P & 2S, 12" dia., with hinged deadlights type BS4.

Vertical distance of Sill of lowest Side Scuttle above top of keel 9.23 M
Distance from amidships to centre of lowest Side Scuttle 10.71 M

Particulars of Guard Rails and Bulwarks :— Bulwark round Upper Deck, 1140 mm high
Plating 6.5 mm, top bar 6.25" x 3 3/16" x ½" b.a.,
Stays 9.5 mm fl. plate, spaced 1700 mm
Guard rails round Forecastle, 1065 mm high, 3 rails, stanchions 60 x 25 mm
Flat bar, spaced 1370 mm

Particulars of Gangways, Lifelines, etc. :— Provision made for fitting lifelines from F'cle front to after deckhouse.

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	119.25 127.6 m	1.140 m	114.5 m x 125 mm	one	14.32 M ²	7.27 M ²
Forward Well						

State position of each freeing port { After Well :— } Continuous slot each side from Fr.14 to Fr.137.
(F. and A. position and height above deck edge) { Forward Well :— } ht above deck edge 100 mm

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such :— None.

Additional area where sheer is less than standard.



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PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS.										
On Upper deck.										
Description of Hatchway	No.1 (in F'cle)	No.2 Cargo	No.3 Cargo	No.4 Cargo	No.5 Cargo	To rope store aft	To prov. store	To No.1 Hold	To fill space	To store aft
Dimensions of Hatchway	10960x 8000	11050x 10000	16150x 10000	17850x 10000	16150x 10000	610x 610	1030x 1030	600x 590	610x 590	710x 685
COAMINGS	Height above Deck	Flush	900	1000	950	1100	760	250	250	760
	Thickness	Sides	11mm	Sides and Ends		10mm	10mm	10mm	10mm	10mm
Stiffeners	Stays	stiffeners	300x	300x100	300x100	300x100				
	Brackets, Stays	Ends	100x25	x13/10	x20/16	x13/10				
HATCH BEAMS	Number	10mm FL PL spaced 1700mm sides, 3250 mm ends								
	Spacing	MACGREGOR PATENT STEEL HATCH COVERS								
Scantling and Sketch	Number	8	6	8	9	8				
	Bearing Surface	sections plating 8 & 15mm webs	sections plating 7 & 7.5 mm webs 9 & 10 mm							
FORE AND AFTERS	Number	15mm & 10mm	Face flats 14 mm to 27mm							
	Spacing	10mm	Fore & Afters 9 mm							
Bearing Surface	Plates	100x10	Both sides flats 14 mm to 27 mm							
	Plates	150x20								
HATCH COVERS	Material	Fore & Afters	6.5							
	Thickness	10 mm	6.5							
How fitted	How fitted		50x6,5 F.B. stiff							
	Bearing Surface		4 toggles							
Spacing of Cleats	Spacing of cleats	1070	990							
	Spacing of cross joint wedges	1220	1220	Fitted W.T. with rubber packing and 2 hinges						
<p>*Are wood fore and afters steel shod at all bearing surfaces? None</p> <p>Are battens and wedges efficient and in good condition? None</p> <p>Are tarpaulins in good condition and in accordance with rule requirements? None</p> <p>Are lashings provided in accordance with rule requirements? None</p> <p>Are wood covers fitted with galvanised end bands? None</p>										

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

No.1 Cargo Hatch on F'cle deck:- size 10960 x 8000
Coaming height 1100 mm ford 1300 mm aft. Plating sides and ends 11.0 mm stiffeners all round 230 x 11 mm b.a.

Stays 10.0mm flanged plates spaced 2170 mm at ends and 1370 mm at sides.

MacGregor patent steel hatch cover fitted in 6 sections, scantlings as given ^{below} for Nos. 2-5 Upper Dk. hatchways, all as per approved drawings.

Hatch on F'cle deck to Stores:- size 1000 mm x 1000 mm
Coaming height 760 mm, thickness 10 mm, steel hinged W.T. cover, 6.5 mm thick with 50 mm x 6.5 mm F.B. stiffeners, secured by 7 toggles, fitted with rubber packing.

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