

002249-002259-0160 1/2

26 APR 1932

tpt. C.11.

Index, No. **30250**  
(For London Office only.)

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

No. **100247**

Computation of Freeboard for Steamer, Sailing Ship, Tanker  
having **SHELTER DECK, WITH TONNAGE OPENING AFT**

Port of Survey **LIVERPOOL**

Date of Survey **APRIL, 1932**

Name of Surveyor **R. M. Scott**

Particulars of Classification **100 A-1**  
**SHELTER DECK WITH FREEBOARD**

(Type of Superstructures.)

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
"KENMARE"	BRITISH, CORK	143487	1675	1921-11 MONTHS

Moulded Dimensions: Length **273.5 FT.** Breadth **37.9 FT.** Depth **18.3 FT.**  
Moulded displacement at moulded draught = 85 per cent. of moulded depth **2840** tons  
Coefficient of fineness for use with Tables **.622**

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	18.3.25	(a) Where D is greater than Table depth (D - Table depth) R =		Moulded Breadth (B)	37.9 FT.
Stringer plate	.03	(18.29 - 18.23) 2/103 = +.13		Standard Round of Beam = $\frac{B \times 12}{50}$	9.04
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$	25(.042) .01	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Ship's Round of Beam	9.2
Depth for Freeboard (D) =	18.29	If restricted by superstructures		Difference	.46
				Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right)$	$\frac{.46}{4} \times .2095 = -.02$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Roop enclosed ...	21.5	21.5	7'2" ABOVE	✓	21.5
overhang ...	6.5	6.5	WOOD DECK		6.5
Roop enclosed ...	70.2	70.2	7'1 1/2" ABOVE	✓	70.2
overhang ...	118.0	118.0	WOOD DECK		118.0
Roop enclosed ...			7'1 1/2" ABOVE		
overhang ...			WOOD DECK		
Tonnage opening aft ...					
Total	216.2	216.2			216.2

Standard Height of Superstructure **6.235**

" " R.Q.D. **✓**

Deduction for complete superstructure **33.35**

Percentage covered  $\frac{S}{L} = 95.80\%$

" "  $\frac{S_1}{L} = 79.05\%$

" "  $\frac{E}{L} = 79.05\%$

Percentage from Table, Line A.  
(corrected for absence of forecastle (if required)) **74.13%**

Percentage from Table, Line B.  
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = **33.35 x .7413 = - 24.72"**

## SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product	
...	37.35	1	37.35	32"	<sup>25</sup> 30.00	30.00	1	30.00
L from A.P. ...	16.62	4	66.48	14"	13.63	13.63	4	54.52
L " "	4.11	2	8.22	4½"	3.41	3.41	2	6.82
Acridst line		4		-	/	/	4	/
L from A.P.	8.22	2	16.44	7¼"	7.01	7.01	2	14.02
L " "	33.24	4	132.96	29"	28.04	28.04	4	112.16
P.P. ...	74.70	1	74.70	62"	63.00	63.00	1	63.00
Total	336.15		336.15					280.52

Correction =  $\frac{\text{Difference between sums of products}}{18} = \frac{55.63}{18} = \frac{.75 - .479}{.75 - .479} = +.84$

If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100 ft.

## Deduction for Tropical Freeboard.

## Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **18.53**

Summer freeboard = **1.37**

Moulded draught (d) = **17.16**

## Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = **4.29 = 4 1/4**Addition for Winter North Atlantic Freeboard (if required) = **2"**

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$  **3140**

Tons per inch immersion at summer load water line

T = **19.35**Deduction =  $\frac{\Delta}{40T}$  inches= **4.06" = 4"****4 1/4" allowed**

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction	.13	-
Deduction for superstructures	-	24.72
Sheer correction	.84	-
Round of Beam correction	-	.02
Correction for Thickness of Deck amidships	2.88	-
Other corrections, scantlings, etc.	-	-

**3.85** **24.74** **-20.89**

Summer freeboard = **16.38"**

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

Tropical Fresh Water Line above Centre of Disc	8 1/2"	Tropical Fresh Water Freeboard	0.8"
Fresh Water Line	4 1/4"	Fresh Water	1.04"
Tropical Line	4 1/4"	Tropical	1.04"
Winter Line below	4 1/4"	Winter	1.04"
Winter North Atlantic Line	6 1/4"	Winter North Atlantic	1.04"

20 APR 1932

25 APR 1932

RECEIVED

Passenger Free 2nd below Centre of disc.

See R. T. Letter 9.7.32



### PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS												
FREEBOARD DECK					SHELTER DECK							
Description of Hatchway	...	...	No. 1.	No. 2.	No. 3.	No. 4.	No. 1.	No. 2.	No. 3.	No. 4.	Tonnage	
Dimensions of Hatchway	...	...	SEE SKETCH ON PAGE 4	11'-6" x 16'-0"	11'-6" x 12'-0"	11'-6" x 16'-0"	11'-6" x 12'-0"	15'-4" x 18'-0"	11'-6" x 12'-0"	11'-6" x 32'-0"		
COAMINGS	{	Height above Deck	...	18"	18"	18"	24"	24"	18"	18"		
		Thickness Sides	...	50"	50"	50"	50"	50"	50"	50"	3' x 3" x 20" AT ENDS.	
		Stiffeners	...	NONE	NONE	NONE	7" x 3" B.A. AT ENDS.	NONE	NONE	NONE	NONE	
		Brackets, Stays	...	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	
HATCH BEAMS	{	Number	...	SEE SKETCH OF HATCH & WEBS, PAGE 4	1.	2.	1.	2.	2.	2.		
		Spacing	...		5'-9"	3'-10"	5'-9"	3'-10"	5'-1"	3'-9 1/2"		
		Scantling and Sketch	...		WEB 10" x 43"	WEB 7 1/2" x 38"	WEB 11 1/2" x 38"	WEB 9" x 38"	WEB 15 1/2" x 38"	WEB 9" x 38"	NONE	
		Bearing Surface	...		4" x 3"	3" x 3"	4" x 3"	3" x 3"	4" x 3"	3" x 3"		
FORE AND AFTERS	{	Number	...	NONE FITTED.								
		Spacing	...									
		Unsupported Lengths	...									
		Scantling* and Sketch	...									
Bearing Surface	...											
HATCH COVERS	{	Material	...	W.P.	SAME AS NO. 1	W.P. 22 GRATINGS, WITH 3 FRAMES. F.B.A. 5/8"	SAME AS NO. 1	SAME AS NO. 1	W.P. 3 1/2" F.B.A. 2 1/4"			
		Thickness	...	3"								
		How fitted	...	RTWWP.								
		Bearing Surface	...	3"								
Spacing of Cleats	...	...	24"	24"	24"	23"	24"	24"	24"	NONE		
Number of Tarpaulins	...	...	2	2	2	3	4	4	4	NONE		
*Are wood fore and afters steel shod at all bearing surfaces? NONE FITTED.												
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. (SHELTER DK. HATCHES NO. 1, 2 & 3).												

Particulars of fiddley, funnel and ventilator coamings :—

STAKEHOLD GRATINGS COVERED BY STEEL HINGED COVERS.

FIDLEY & FUNNEL VENTILATORS ARE IN EFFICIENT CONDITION.

ENGINE ROOM SKYLIGHT OF STEEL, STRONGLY CONSTRUCTED.

Particulars of Flush Bunker Scuttles :—

2 FLUSH SCUTTLES, 18" DIA. ON FREEBOARD DECK, FITTED WITH BAYONET JOINTS.

SCUTTLES ARE CAST, AND OF SUBSTANTIAL CONSTRUCTION. ✓

Particulars of Companionways :—

ONE STEEL COMPANION, 3'-0" x 5'-0" x 6'-3" HIGH, ON SHELTER DECK FORWARD LEADING TO FBD DECK

COMPANION HAS DOUBLE STEEL HINGED DOORS, SILL 13" ABOVE WOOD DECK. ✓

ENTRANCE TO LOWER FORECASTLE (UNDER PILE DK) - WOOD HINGED DOOR 4'-10 1/2" x 24", SILL 12" ABOVE WOOD DECK...  
DOOR OPERATED FROM BOTH SIDES.

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

2	VENTS 18" DIA. (ACTING AS DERR. POSTS) ON SHELTER DECK, TO PASS. ACC-IN POOP	2	VENTS 6 DIA. COAM. 34" x 30" ON F'CLE D <sup>K</sup> TO LOW F'CLE
1	" 30" " COAM. 28" x 40" " ON SHELTER DECK, TO HOLD.	1	" 6 1/2" " 33" x 30" " " " F.P. STORE.
2	" 28" " 28" x 40" " BRIDGE " " "	2	" 10" " 28" x 32" " AFT. D <sup>K</sup> HOUSE TO STEERAGE.
1	" 22" " 33" x 40" " SHELTER " " "	1	" 8" " 28" x 30" " " " "
1	" 30" " 33" x 40" " " " " "		
1	" 30" " 39" x 40" " " " " "		
1	" 30" " 34" x 40" " F'CLE " " "		

WOOD PLUGS & CANVAS COVERS PROVIDED FOR VENT

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

1	AIR PIPE,	2 1/2 DIA.	30' TO TOP OF PIPE, ON FLE DK. TO F.P.TANK.	6 AIR PIPES,	2 1/2 DIA.,	20' TO TOP, ON BRIDGE DK. TO D.B.TANKS.
2	" "	2 1/2 "	23 1/2' LIP, ON FLE DECK TO D.B.TANK.	2 " "	9/8 " (SEE SKETCH)	" SHELTER DK. " SETTLING TANKS.
4	" "	3 "	20 1/2' " " " " " " " " " "			
2	" "	3 "	26 1/2' " " " " " " " " " "			
1	" "	2 1/2 "	23 1/2' " " " " " " " " " "			
2	" "	2 1/2 "	22' " " " " " " " " " "			
1	" "	3 "	22' " " " " " " " " " "			

CANVAS COVERS PROVIDED FOR AIR PIPES ✓

Particulars of Gangway Cargo and Coaling Ports :—

ONE GANGWAY DOOR P.A.S. BET. FBD. & SHELTER DECKS, ABOARD N° 4 HATCH, 11'-6" x 5'-8", EFFICIENTLY CONSTRUCTED.

ONE GANGWAY DOOR, P&S, BET. FWD. & SHELTER DECKS, ABREAST NO. 2 HATCH, 7'-7" x 5'-6", EFFICIENTLY CONSTRUCTED

ONE GANGWAY DOOR, P&S, BET. FDP & SHELTER DECKS, ABREAST FORE END BOLLER CASING 4'6" x 2'1"

1 FREEING PORT IN DOOR, P&S, 1'-9" x 1'-3" - EDGE 18" ABOVE STEEL DECK, FITTED WITH HINGED STEEL SHUTTER

## Particulars of Scuppers and Sanitary Discharge Pipes

• SANITARY DISCHARGE PIPES FITTED WITH STORM VALVES.

SCUPPERS ON FREEBOARD DECK LED THROUGH SHIP'S SIDE, BELOW FB. DK, AND FITTED WITH STORM VALVES. ✓

Particulars of Side Scuttles:

SIDE SCUTTLES TO LOWER & UPPER FORECASTLES (CREW'S QRTRS) FITTED WITH HINGED DEADLIGHTS.

SIDE " " PASSENGER RECM. IN POOP, FITTED WITH HINGED DEADLIGHTS. ✓

### Particulars of Guard Rails :—

SHELTER DK. AFT & ROUND STERN:- GUARD RAILS  $3'8\frac{1}{2}"$  HIGH, 4 RAILS, WITH STANCHIONS SPACED  $4'-6"$ .

FORECASTLE DECK:- " " 3'-5" " , 3 " " " " 4'-6" ✓

SHELTER DK. FORD WELL:- STEEL BULWARK, 3'-8 1/2" HIGH, EFFICIENTLY SUPPORTED.

Particulars of Gangways, Lifelines, etc. :—

PORTABLE STANCHIONS FITTED INTO SOCKETS ON DECK, ROUND ALL SHELTER DECK HATCHES, WITH

2 ROWS OF RAILS. ✓

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 ... ..	11.5'	7'-6"	2'-2" x 1'-5"	2	6.2 $\frac{1}{2}$	
Forward Well ... ..						

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

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such :—

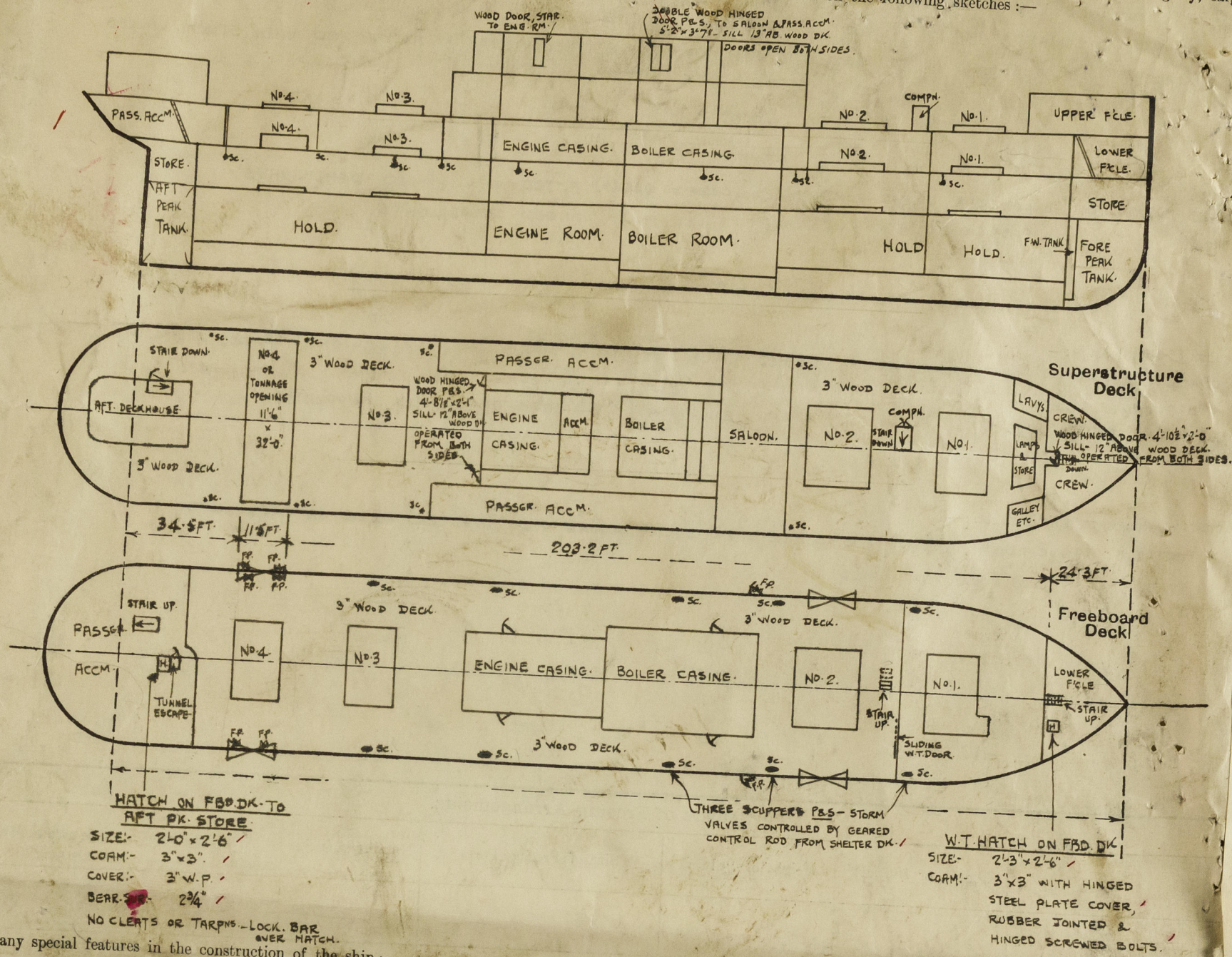
Additional area where sheer is less than standard.

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 ... ..	✓	26"	3" x 2 1/2" x 30"	30"	NONE	NONE	NONE	7 1/2" ABOVE WOOD DK
<del>Raised Quarter Deck Bulkhead</del> ... ..								
<del>Bridge, After Bulkhead</del> ... ..								
<del>Bridge, Forward Bulkhead</del> ... ..								
Forecastle Bulkhead ... ..	✓	26"	5" x 3" x 30"	24"	NONE	NONE	NONE	7 1/2" ABOVE WOOD DK
<del>Trunk, Aft</del> ... ..								
<del>Trunk, Forward</del> ... ..								
<del>Exposed Machinery Casings on Fore- board or Raised Quarter Decks</del> ... ..								
Exposed Machinery Casings on Super- structure Decks ... ..	30"	30"	3" x 2 1/2" x 30"	30"	NONE	4' 10" x 2'-0 1/2" S	12 1/2" ABOVE WOOD DK	7'-3 1/2" ABOVE WOOD DK
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances ... ..	40"	30"	3" x 2 1/2" x 30"	30"	NONE	4'-7" x 22" P&S, 4'-5" x 23" P&S	14" " " " 12" " " "	7'-1 1/2" ABOVE WOOD DECK
<del>Deckhouses on Flush Deck Ships</del> ... ..								

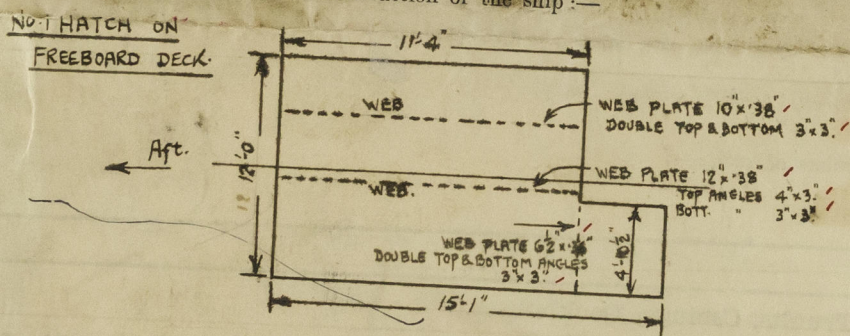
Particulars of Closing Appliances (state if capable of being manipulated from both sides).	
Poop Bulkhead ... ..	NO OPENINGS. ✓
TUNNEL ESCAPE. Raised Quarter Deck Bulkhead ... ..	TUNNEL ESCAPE IN PASS. ACC. (POOP SPACE) BET. FBR & SHELTER DKS:- STEEL HINGED DOOR 4'-11" x 17 1/2" - SILL 15 1/2" ABOVE DECK COMOSN. -
Bridge, After Bulkhead ... ..	
Bridge, Forward Bulkhead ... ..	
Forecastle Bulkhead ... ..	NO OPENINGS.
Exposed Machinery Casings on Fore- board or Raised Quarter Decks ... ..	
Exposed Machinery Casings on Super- structure Decks ... ..	
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances ... ..	WOOD HINGED DOOR, (STAR ONLY) LEADING TO ENG. ROOM, OPERATED FROM BOTH SIDES. STEEL HINGED DOOR (IN HAWES) LEADING TO ENG. RM. P&S, OPERATED FROM BOTH SIDES. STEEL HINGED DOOR, P&S, LEADING TO BOILER ROOM, " " " " " "
Deckhouse on Flush Deck Ships ... .. AFTER DECKHOUSE.	WOOD HINGED DOOR, PORT SIDE, LEADING TO PASS. ACC'M. 4'-10 1/2" x 2'-0" SILL 11 1/2" ABOVE WOOD DK, OPERATED FROM BOTH SIDES.



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:—



Builder's name and yard number: ARDROSSAN D.D. CO YARD No. 278.

Names of sister ships: ✓

Owners: CITY OF CORK S.S. CO.

Fee £ 9 : 7 : 0.

Received by me: *[Signature]*



© 2020  
 Lloyd's Register  
 Foundation