

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index No. **28935**
(For London Office only.)

20 OCT 1932

7998.

 Computation of Freeboard for Steamer, ~~Sailing Ship, Tanker~~
 having **Poop, Bridge & Forecastle**
Port of Survey **Marseilles**Date of Survey **5.10.32 To 14.10.32**Name of Surveyor **H. W. Aggall**Particulars of Classification **+100 A.1**

S.S. No. 2.28

 Ship's Name **"Mont Agel"** Nationality and Port of Registry **French Marseilles**
 Official Number **4572** Gross Tonnage **1920-6**
 Moulded Dimensions: Length **345.6** Breadth **52.00** Depth **28.5**
 Moulded displacement at moulded draught = 85 per cent. of moulded depth **10560** tons
 Coefficient of fineness for use with Tables **.781**

 Depth for Freeboard (D)
 Moulded depth ... **28.5**
 Stringer plate ... **.04**
 Sheathing on exposed deck
 $T \left(\frac{L-S}{L} \right) =$ **.781**
 Depth for Freeboard (D) = **28.54**

 Depth correction
 (a) Where D is greater than Table depth
 $(D - \text{Table depth}) R =$
 $(28.54 - 25.04) 2.889 =$ **+10.11**
 (b) Where D is less than Table depth (if allowed)
 $(\text{Table depth} - D) R =$
 If restricted by superstructures

 Round of Beam correction
 Moulded Breadth (B) **52.00**
 Standard Round of Beam = $\frac{B \times 12}{50} =$ **12.48**
 Ship's Round of Beam = **13**
 Difference **.52**
 Restricted to
 Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ $\frac{.52}{4} \times .5152 =$ **-.07**

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	36.75	36.75	7.5	✓	36.75
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	105	102.00	7.5	✓	102.00
" overhang aft ...	3.4	2.25			2.25
" overhang forward ...					
Fore enclosed ...	41.1	41.10	7.5	✓	41.10
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	182.85	182.10			182.10

 Standard Height of Superstructure **7.256**
 " " R.Q.D. **✓**
 Deduction for complete superstructure **40.37**
 Percentage covered $\frac{S}{L} =$ **48.68 %**
 " " $\frac{S_1}{L} =$ **48.48 %**
 " " $\frac{E}{L} =$ **48.48 %**
 Percentage from Table, Line A. **✓**
 (corrected for absence of forecastle (if required)) **✓**
 Percentage from Table, Line B. **34.70 %**
 (corrected for absence of forecastle (if required)) **✓**
 Interpolation for bridge less than .2L (if required) **✓**
 Deduction = $40.37 \times .3470 =$ **-14.01**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
... ..	47.56	1		47.56	60	60.00	60.00	1	60.00
from A.P. ...	21.16	4		84.64	25	22.60	22.60	4	90.40
" ...	5.23	2		10.46	6	1.60	1.60	2	3.20
amidships ...	✓	4		✓	0	✓	✓	4	✓
from F.P. ...	10.46	2		20.92	12	2.60	2.60	2	5.20
" ...	42.33	4		169.32	49	47.80	47.80	4	191.20
F.P. ...	95.12	1		95.12	111	111.00	111.00	1	111.00
Total ...				428.02					461.00

 Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ $\frac{32.98}{18} \times (.75 - .2434) =$ **-.93**

If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.
 Deduction for Tropical Freeboard.
 Addition for Winter and Winter North Atlantic Freeboard.

 Ft.
 Depth to Freeboard Deck = **28.54**
 Summer freeboard = **5.33**
 Moulded draught (d) = **23.21**

Deduction for Tropical freeboard and addition for

 Winter freeboard = $\frac{d}{4}$ inches = **5.80**
 Addition for Winter North Atlantic Freeboard (if required) = **147**

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$

Tons per inch immersion at summer load water line

 $T =$ Deduction = $\frac{\Delta}{40 T}$ inches

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.781 + .68}{1.36} =$ **1.461**

	+	-
Depth Correction ...	10.11	✓
Deduction for superstructures ...	✓	14.01
Sheer correction ...	✓	.93
Round of Beam correction ...	✓	.07
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc. ...	✓	✓
	10.11	15.01

	+	-
Depth Correction ...	10.11	✓
Deduction for superstructures ...	✓	14.01
Sheer correction ...	✓	.93
Round of Beam correction ...	✓	.07
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc. ...	✓	✓
	10.11	15.01

	+	-
Depth Correction ...	10.11	✓
Deduction for superstructures ...	✓	14.01
Sheer correction ...	✓	.93
Round of Beam correction ...	✓	.07
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc. ...	✓	✓
	10.11	15.01

	+	-
Depth Correction ...	10.11	✓
Deduction for superstructures ...	✓	14.01
Sheer correction ...	✓	.93
Round of Beam correction ...	✓	.07
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc. ...	✓	✓
	10.11	15.01

	+	-
Depth Correction ...	10.11	✓
Deduction for superstructures ...	✓	14.01
Sheer correction ...	✓	.93
Round of Beam correction ...	✓	.07
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc. ...	✓	✓
	10.11	15.01

	+	-
Depth Correction ...	10.11	✓
Deduction for superstructures ...	✓	14.01
Sheer correction ...	✓	.93
Round of Beam correction ...	✓	.07
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc. ...	✓	✓
	10.11	15.01

	+	-
Depth Correction ...	10.11	✓
Deduction for superstructures ...	✓	14.01
Sheer correction ...	✓	.93
Round of Beam correction ...	✓	.07
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc. ...	✓	✓
	10.11	15.01

	+	-
Depth Correction ...	10.11	✓
Deduction for superstructures ...	✓	14.01
Sheer correction ...	✓	.93
Round of Beam correction ...	✓	.07
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc. ...	✓	✓
	10.11	15.01

	+	-
Depth Correction ...	10.11	✓
Deduction for superstructures ...	✓	14.01
Sheer correction ...	✓	.93
Round of Beam correction ...	✓	.07
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc. ...	✓	✓
	10.11	15.01

	+	-
Depth Correction ...	10.11	✓
Deduction for superstructures ...	✓	14.01
Sheer correction ...	✓	.93
Round of Beam correction ...	✓	.07
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc. ...	✓	✓
	10.11	15.01

	+	-
Depth Correction ...	10.11	✓
Deduction for superstructures ...	✓	14.01
Sheer correction ...	✓	.93
Round of Beam correction ...	✓	.07
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc. ...	✓	✓
	10.11	15.01

	+	-
Depth Correction ...	10.11	✓
Deduction for superstructures ...	✓	14.01
Sheer correction ...	✓	.93
Round of Beam correction ...	✓	.07
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc. ...	✓	✓
	10.11	15.01

	+	-
Depth Correction ...	10.11	✓
Deduction for superstructures ...	✓	14.01
Sheer correction ...	✓	.93
Round of Beam correction ...	✓	.07
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc. ...	✓	✓
	10.11	15.01

	+	-
Depth Correction ...	10.11	✓
Deduction for superstructures ...	✓	14.01
Sheer correction ...	✓	.93
Round of Beam correction ...	✓	.07
Correction for Thickness of Deck amidships ...	✓	✓
Other corrections, scantlings, etc. ...	✓	✓
	10.11	15.01

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: **63.93 = 1624**
 Tropical Fresh Water Line above Centre of Disc ...
 Fresh Water Line " " ...
 Tropical Line " " ...
 Winter Line below " " **147**
 Winter North Atlantic Line " " ...

 Tropical Fresh Water Freeboard ...
 Fresh Water " " ...
 Tropical " " ...
 Winter " " ...
 Winter North Atlantic " " ...

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS												
Description of Hatchway	Nº1	Nº2	Nº3	Nº4	Nº5	Hatch on enclosed Budge space	Bunker Hatch on Fidley	P&S Side Bunker Hatch Budge OR	P&S Side Bunker Hatch Budge OR	Hatch on POOP
Dimensions of Hatchway	30' x 18'	33' x 18'	12' x 18'	33' x 18'	30' x 18'	12' x 18'	14' x 5'	10' x 3'	5'8" x 3'	3'8" x 3'8"
COAMINGS	{	Height above Deck	36"	.44	a0	a0	a0	9"	8"	3 ft	3 ft	3 ft
		Thickness { Sides Stiffeners ... Ends	.44 ✓	Nº1 ✓	Nº1 ✓	Nº1 ✓	Nº1 ✓	.40 ✓	.40 ✓	.40 ✓	.40 ✓	.40 ✓
		Stanchions, Stays	10' from Top 27 Round stays at side 2 1/2" Dia	9'4"	No stays			.40 ✓	.40 ✓	.40 ✓	.40 ✓	.40 ✓
HATCH BEAMS	{	Number	6	6	2	6	6	2				
		Spacing	6'6"	9'4"	4'	4' - 8"	4' - 3"	4'				
		Scantling and Sketch	3 1/2" 25 7' x 5 1/8" x 3 1/2" 625 lbs ✓ 6875 lb ✓ 3"	3 1/2" 66 web ✓ 6875 lb ✓ 3"	a0 Nº1 ✓	a0 Nº2 ✓	a0 Nº1 ✓	a0 Nº1 ✓				
		Bearing Surface			3" ✓	3" ✓	3" ✓	3" ✓				
FORE AND AFTERS	{	Number	/	/	/	/	/	/	/	/	/	/
		Spacing										
		Unsupported Lengths										
		Scantling* and Sketch										
		Bearing Surface										
HATCH COVERS	{	Material	Pine ✓	Pine ✓	Pine ✓	Pine ✓	Pine ✓	Pine ✓	Pine ✓	Pine ✓	Pine ✓	Pine ✓
		Thickness	3" ✓	3" ✓	3" ✓	3" ✓	3" ✓	3" ✓	3" ✓	3" ✓	3" ✓	3" ✓
		How fitted	F+A ✓	F+A ✓	F+A ✓	F+A ✓	F+A ✓	F+A ✓	F+A ✓	P+S ✓	P+S ✓	F+A ✓
		Bearing Surface	5/8" x 3 1/2"	a0 NØ1 ✓	a0 NØ1 ✓	a0 NØ1 ✓	a0 NØ1 ✓	a0 NØ1 ✓	a0 NØ1 ✓	3" ✓	3" ✓	3" ✓
Spacing of Cleats			2 ft ✓							3" ✓	3" ✓	3" ✓
Number of Tarpaulins			3 ✓	a0 NØ1 ✓	a0 NØ1 ✓	a0 NØ1 ✓	a0 NØ1 ✓	a0 NØ1 ✓	2 ft ✓	2 ft ✓	2 ft ✓	2 ft ✓
*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 ✓												
Particulars of fidley, funnel and ventilation gear:												

Particulars of fiddley, funnel and ventilator coamings:—

Worked gratings covered by strong steel hinged covers. ✓
Tidley, funnel & ventilators in efficient condition. ✓
Engin Room skylights of steel & strongly constructed.

Particulars of Flush Bunker Scuttles:—

2 Scullies P & S Sides on Budge of 24" Dia fitted with bayonet joints
(no chains) ✓

Particulars of Companionways :—

~~none.~~ ✓ Support. See sketch in back

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

Particulars of Ventilators in exposed positions on freeboard and superstructure decks :									
on Forecastle	2 vents	8 ft. High	20 Dia	coaming	8/20	No 1 Hood.	wood plugs + Canvas covers fitted as per Rule. ✓		
	1 vent	3'3"	11"	✓	7/20	6 to felle			
Fore well	6 vents	6 ft. <i>actually</i>	18" Dia	✓	6/20	6 No 1 & 2 Hoods			
Bridge Deck	4 "	2'-6"	12 "	✓	6/20	6 Bridge space			
"	2 "	2'-6"	21 "	✓	6/20	No 3 Hood			
"	2 "	2'-8"	11 "	✓	3/20	T.O.			
after well	6 "	6 ft. <i>actually</i>	18 "	✓	6/20	No 4 & 5 Hoods			
poop	6 "	2'-6"	8 "	✓	7/20	cross acc.			
	3 "	4'-0"	18 "	✓	7/20	No 3 Hood			
	5 "	4'-0"	18 "	✓	7/20	16 after slope			
Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks :—									
on Deck	- 2 G.N.	- 14" High	- 4" Dia	- 16 No 1 Tank			no plugs or snifting holes fitted Satisfactory clamping appliances		
"	- 1 G.N.	- 12" High	- 4" Dia	- 16 F.P.					
on fore well	- 2 G.N.	- 4 ft.	- 3 1/2 "	- 6 No 2 "					
on Bridge	- 8 "	- 16 "	- 3 1/2 "	- 6 Day T. Fresh Water & No 4 T.					
" after well	- 2 "	- 14 "	- 3 1/2 "	- 6 No 5 T.					
on poop	- 4 G.N.	- 16 "	- 4 1/2 "	- 6 cross acc.					
"	- 1 G.N.	- 14 "	- 5 "	- 6 after bend					

Particulars of Gangway Cargo and Coaling Ports:—

4 Watertight cargo doors P.S. between foreboard DK & Tween DK in way of Nos 1, 2, 4 & 5 Hoeds, 3ft x 2ft. steel hinged doors. $3\frac{1}{2}$ " x 3" angle stiffener. Round door & door fixed by 2 dogs 18" apart. ✓

Particulars of Scuppers and Sanitary Discharge Pipes

Particulars of Scupperns and Sanitary Discharge Pipes — through gunwale bar (2P + 2S) 7" x 4"
Fore Well - 2 scupper " (4P + 4S) 7" x 4"
after Well - 4 " " " "
Bridge space - Sanitary discharges 1 S.S. + 2 P.S. 4" Dia non-pellison valve at ship's side above F.B.D.
Brews Acc: aft - " " 2 P.S. + 2 S.S. 2½" Dia No valve at ship's side below F.B.D.

Particulars of Side Scuttles:

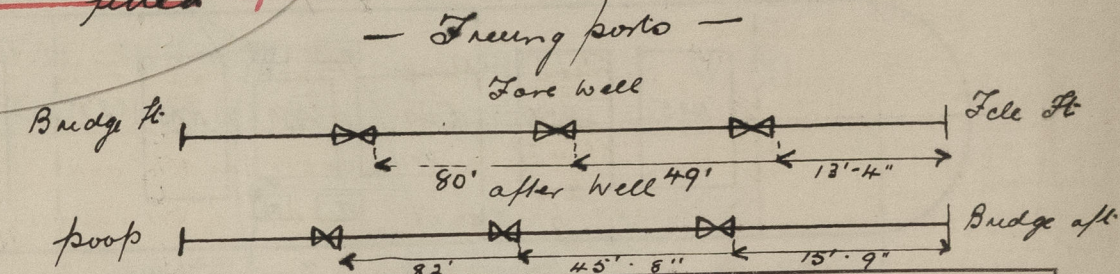
Side scuttles below F.B.D. ✓
Side scuttles in cross space aft in poop, provided with hinged
dead lights. ✓ All scuttles of substantial construction

Particulars of Guard Rails :-

Hard Rails:—			
Guard	Rails on	Forecastle	3 ft 3" high 3 Rails, stanchions 4 ft 3"
"	"	Bulwark	3 ft 3" " 3 " " 3'-6"
"	"	Forecastle	3 ft 3" " 3 " " 4 ft-0"
Steel	bulwarks on fore &	after wells	4 ft 6" High efficiently constructed & supported

Particulars of Gangways, Lifelines, etc. :—

Sustainable provision made for rigging
~~have~~ fitted lifelines



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	95.5' ✓	4' - 6"	4' x 18"	3	18 \$	19.10 \$
Forward Well	94.25' ✓	4' - 6"	4' x 18"	3	18 \$	19.45 \$

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.

please see sketch { 2 fixed Bars
15" above Deck. ✓

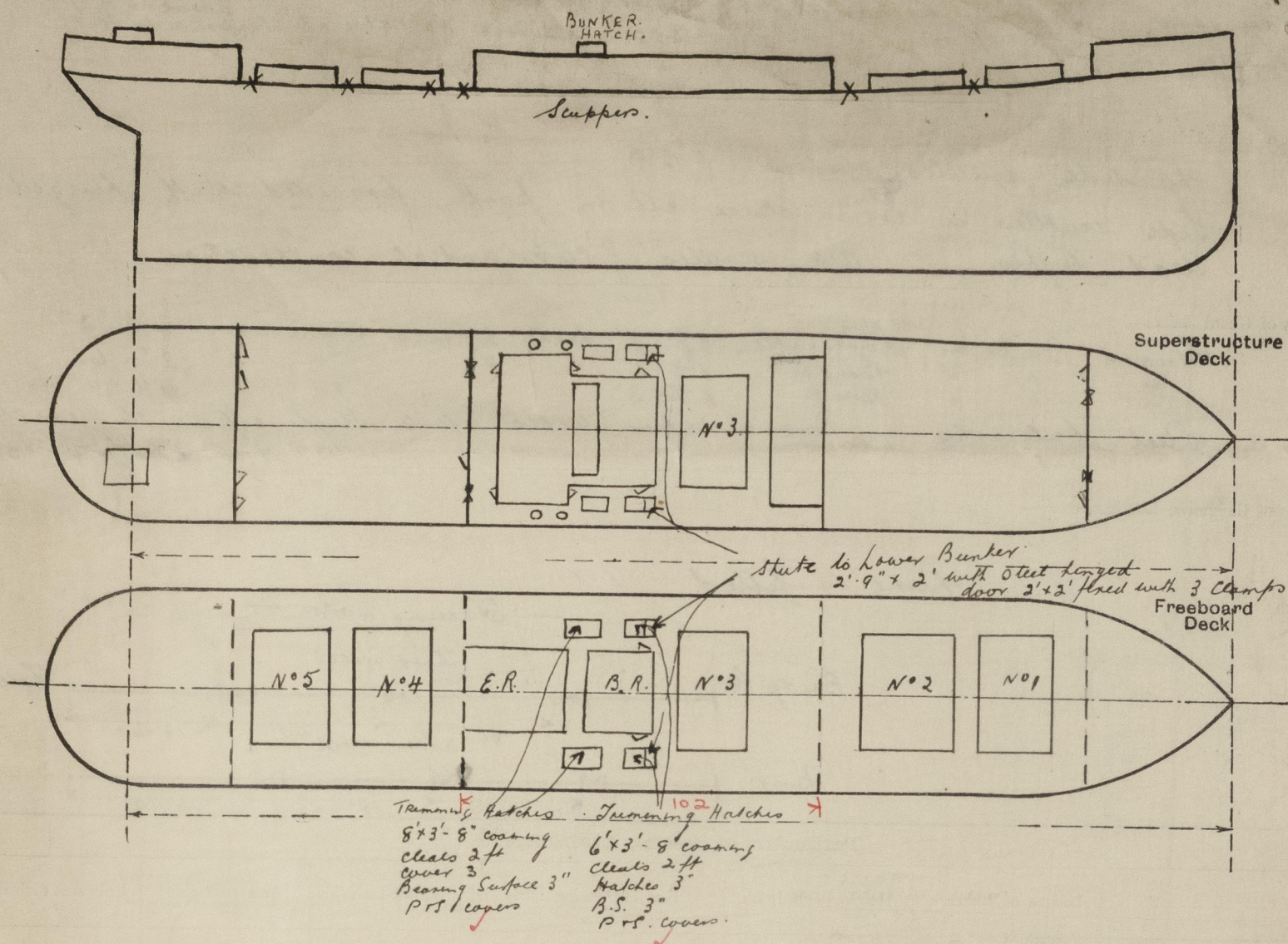
Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	7/20 ✓	7/20 ✓	6" x 3.5" x 30	2'-6"	none	5' x 2' 5' x 2'	18"	7.5'
Raised Quarter Deck Bulkhead ...	6/20 ✓	6/20 ✓	3" x 3" x 25	3/4"	none	4'-6" x 3'-8" 4'-6" x 2'-0"	18"	7.5'
Bridge, After Bulkhead	7/20 ✓	7/20 ✓	B.A. 6" x 3.5" x 35 3.5" x 3.5" x 30	2 1/4"	B.A. Top & Bottom	none	✓	7.5'
Bridge, Forward Bulkhead	7/20 ✓	7/20 ✓	3" x 3" x 30	2 1/4"	none	4'-8" x 2'-4" 4'-6" x 4'	19"	7.5'
Forecastle Bulkhead	6/20 ✓	6/20 ✓	3" x 3" x 30	2 1/4"	none	4'-6" x 4'	19"	7.5'
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Free- board or Raised Quarter Decks ...	7/20 ✓	7/20 ✓	4" x 3" x 30	2.6"	none	4'-6" x 2'	18"	7.5"
Exposed Machinery Casings on Super- structure Decks	7/20 ✓	7/20 ✓	4" x 3" x 30	2' 2"	none	5 1/4" x 2 1/4"	18"	7.5"
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances								
Deckhouses on Flush Deck Ships ...								

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

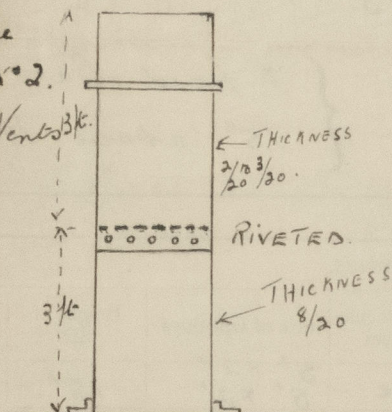
Particulars	Quantity	Description	Remarks
Poop Bulkhead	2	Steel hinged doors, spring locks, opening both sides to create wind.	✓
Raised Quarter Deck Bulkhead	2	Steel hinged doors, opening both sides	✓
Bridge, After Bulkhead	1	opening storm boards full height in Riveted channels 3"	✓
Bridge, Forward Bulkhead	1	opening to ER, steel door hinged, opening both sides.	✓
Forecastle Bulkhead	2	opening storm boards full height in Riveted channels 3"	✓
Exposed Machinery Casings on Free-board or Raised Quarter Decks	2	steel hinged doors, spring locks, opening both sides	✓
Exposed Machinery Casings on Super-structure Decks	2	opening storm boards full height in Riveted channels 3"	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	2	Hard wood doors " " " " " " " " " " " "	✓
Deckhouses on Flush Deck Ships	2	steel hinged doors, opening one side to stakehold.	✓

Superstructure bulkheads, trunks, deckhouses, casings, cargo and coaling hatchways, extent and thickness of sheathing on the freeboard deck, gangway, 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:—

* Please see page N°2.
18" Vents 3/4"



Vessel surveyed afloat and under going complete S.S. 1st N°

Displacement figures taken from scale on vessel.

23ft. 5"	=	7300 Tons D.W.
22' . 9 1/2"	=	7000 " " "
21' . 9"	=	6500 " " "
20' . 8 1/2"	=	6000 " " "
19' . 7 1/2"	=	5500 " " "
18' . 7"	=	5000 " " "

Builder's name and yard number

Greenock Drydock Co Ltd.

Names of sister ships

Owners

Soc. Gen de Transp. Mar à Vap.

Fee 1950.-

Received by me

Exps. 37.-

Int.



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