

Martina
31153 etc
Rpt. C.11.

7 OCT 1932

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(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for ~~Steamer~~ Sailing Ship Tanker
having Poop, Trunk & Forecastle

(Type of Superstructures.)

Ship's Name TSS "MATILDE" Nationality and Port of Registry DUTCH Willemstad Official Number 3549 Gross Tonnage 2601 Date of Build 1926-10 mo.

Moulded Dimensions: Length 305'0" Breadth 50'8" Depth 15'4.0

Moulded displacement at moulded draught = 85 per cent. of moulded depth 4622 ~~4590~~ tons

Coefficient of fineness for use with Tables .882 ~~.825~~

Port of Survey Willemstad Curacao.

Date of Survey 23rd Aug till 6th Sept.

Name of Surveyor A. Common.

Particulars of Classification +100 A1.
Carrying Petroleum in Bulk
J.S. Co. No. 1-30

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	15.00	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	50.30
Stringer plate	.04	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	12.08
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$		$(20.33-15.04) 2.346 = -12.41$		Ship's Round of Beam	12.50
Depth for Freeboard (D) =	15.04	If restricted by superstructures = -11.92		Difference	.50
				Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L})$	$= \frac{.50}{4} (1 - .8121) = .02$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed	88.27	88.27	6.29	6.29	84.77	Standard Height of Superstructure <u>6.55</u>
" overhang						" " R.Q.D. <input checked="" type="checkbox"/>
R.Q.D. enclosed						Deduction for complete superstructure <u>35.67</u>
" overhang						Percentage covered $\frac{S}{L} = 39.87$
Bridge enclosed	14.5		22.5			" " $\frac{S_1}{L} = 81.21$
" overhang aft						" " $\frac{E}{L} = 78.42$
" overhang forward	4.0					Percentage from Table, Line A. <input checked="" type="checkbox"/>
F'cle enclosed	88.27	33.35	7.5		33.35	(corrected for absence of forecastle (if required))
" overhang						Percentage from Table, Line B. Tanker <u>73.35</u>
Trunk aft	92.04		6.29			(corrected for absence of forecastle (if required))
" forward	92.04	126.05	6.29	6.29	121.05	Interpolation for bridge less than 2L (if required)
Tonnage opening aft	55.6		7.5			Deduction = <u>26.16</u>
" forward						
Total	121.62	247.67			239.17	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P.	40.50	1		40.50	41.00	14.00	1		14.00	Mean actual sheer aft = Deficient
$\frac{1}{2}$ L from A.P.	13.02	4		72.08	12.0	0	4		0	Mean actual sheer forward = Deficient
$\frac{3}{4}$ L	4.46	2		8.92	0	0	2		0	Mean standard sheer aft
Amidships		4			0	0	4		0	Mean standard sheer forward
$\frac{3}{4}$ L from F.P.	8.92	2		17.84	0	0	2		0	Length of enclosed superstructure forward of amidships = Tanker
$\frac{1}{2}$ L	36.04	4		144.16	5.12	1.12	4		4.48	" " aft of " =
F.P.	81.00	1		81.00	24.00	24.00	1		24.00	
Total				364.50					42.48	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{322.02}{18} (.75 - .1993) = 9.85$

If limited on account of midship superstructure.

If limited to maximum allowance of $\frac{1}{4}$ ins. per 100 ft.

Deduction for Tropical Freeboard.		Deduction for Fresh Water.		TABULAR FREEBOARD corrected for Flush Deck (if required)	
Addition for Winter and Winter North Atlantic Freeboard.		Displacement in salt water at summer load water line		Correction for coefficient $\frac{.225 \times 832 + .68}{1.36} = 1.505$	
Depth to Freeboard Deck =	15.04	$\Delta =$	4926	Depth Correction	11.92
Summer freeboard =	1.55	Tons per inch immersion at summer load water line		Deduction for superstructures	26.16
Moulded draught (d) =	13.49	T =	31.80	Sheer correction	9.85
Deduction for Tropical freeboard and addition for		Deduction = $\frac{\Delta}{40T}$ inches		Round of Beam correction	.02
Winter freeboard = $\frac{d}{4}$ inches =	3.37 cms		3.87	Correction for Thickness of Deck amidships	
Addition for Winter North Atlantic Freeboard (if required) =	3.37 + 3.05 = 6.42 cms		10 cms	Other corrections, scantlings, etc.	
				Summer Freeboard =	18.5534

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: 18.34 ~~18.55~~ = 47 cms.

Tropical Fresh Water Line above Centre of Disc	19 cms	Tropical Fresh Water Freeboard	28 "
Fresh Water Line	10 "	" Fresh Water	37 "
Tropical Line	9 "	" Tropical	38 "
Winter Line below	2 "	" Winter	56 "
Winter North Atlantic Line	16 "	" Winter North Atlantic	63 "

MARKING FORM

RECEIVED 22 AUG 1933

MARKING FORM

RECEIVED 7 SEP 1934

003985-003993-0141 1/2

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS													
Description of Hatchway				2 O.T. Hatchway along centerline WING TRUNKS UPPER DECK	4 O.T. Hatchway along centerline WING TRUNKS UPPER DECK	5 O.T. Hatchway Main Trunks Lower Deck	1 O.T. Hatchway Q.F. Bulkhead Lower Deck	1 WT Hatchway FOREPEAK Lower Deck	1 WT Hatchway F.H. Stern Trunk Lower Deck	1 WT Hatchway F.O. Stern Trunk Lower Deck	1 WT Hatchway F.O. Stern Trunk Lower Deck	1 WT Hatchway COFFER DAM MARK DECK	
Dimensions of Hatchway				6'6"x12'7"	6'6"x12'7"	6'0"x14'0"	5'0"x16'0"	10'0"x16'0"	3'0"x13'0"	3'0"x12'6"	18'0"x14'0"	18'0"x24'0"	
COAMINGS				Height above Deck ... 4'0"	4'0"	9"	9"	9"	9"	9"	9"	9"	
				Thickness { Sides } ... 5'8'5"x1/4"	1/4"	50	50	50	50	50	50	50	
				Stiffeners ... 1 each side amidships	Groups fitted to flange &								
				Brackets, Stays ...									
HATCH BEAMS				Number ... 50 f/p.	each had	50 f/p.	50 f/p.	50 f/p.	50 f/p.	50 f/p.	50 f/p.	50 f/p.	
				Spacing ... plate with standard manhole	20'x15"	plate with standard manhole	plate with standard manhole	plate with standard manhole	plate with standard manhole	plate with standard manhole	plate with standard manhole	plate with standard manhole	
				Scantling and Sketch	2 stiffeners	2 stiffeners	2 stiffeners	3 stiffeners	with 12	with 8	20 stiffeners	11 faggles	
					1'x3'x.50	4'x3'x.50	4'x3'x.50	4'x3'x.30	faggles	faggles	4'x3'x.50	rigid	
					Large hatchco amidships & secured	Transverse stiffener 5'x3'x.4 to take load direct onto edge of hatch	with 14 faggles	and 26 faggles			with 16 faggles		
Bearing Surface								Roccos hatch					
				Number ... by 16				3'0"x2'14"					
				Spacing ... faggles				coaming					
				Unsupported Lengths				9'x3'x.50					
				Scantling and Sketch				longitudinal with 8 faggles above plate 50	None	None			
Bearing Surface													
HATCH COVERS				Material ... Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel	
				Thickness ... 50	50	50	50	50	50	50	50	50	
				How fitted ... Rigid	Rigid	Rigid	Rigid	Rigid	Rigid	Rigid	Rigid	Rigid	
				Bearing Surface ... O.T.	O.T.	O.T.	O.T.	WT.	WT.	WT.	WT.	WT.	
Spacing of Cleats													
Number of Tarpaulins													
*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 ?													

Particulars of fiddley, funnel and ventilator coamings:—

Engine room & fire room ventilators & funnel in efficient condition.
Stal covers for fiddly openings in efficient condition.
Engine room skylights of stal strongly constructed & in efficient condition.

Particulars of Flush Bunker Scuttles:—

None

Particulars of Companionways:— One steepl companionway on fore-castle deck 7'0" x 3'9" leading to enclosed fore-castle with steepl door 4'6" x 2'3" and 14" sill capable of being manipulated from both sides— One steepl companionway 9'9" x 5'6" on trunk deck for pump room 7'6" high x 34" plate having a steepl door on aft side of same 4'6" x 2'5" with 18" secured by 8 toggles & capable of being manipulated from both sides.

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

Forecastle Deck:
7-8" diam - coaming 3'0" x 3 1/2 P. L. lower quarters.
3-14" " " 3'0" x 4 1/4 to forehold + stove.

Trunk Deck:
2-18" diam - coaming 3'0" x 4 to pump room

Pop Deck:
4-8" diam - coaming 3'0" x 30 to stores aft.
2-20" " " 10'0" x 44 to S. R. stores aft
+ suitably bracketed + stayed from
Efficient diving appliances provided boat deck.

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

Fourstroke dick:-
1-4" diam C.T. 50thick 4" above dick from fourstroke.
5-3" - 4" - - from P.S.W.E's.
Reinforced Quarter dick 28" - - from F.W. tanks.
2-3" diam steel 36" - - from aft Peak
1-4" - - - - -

Trunk dick:-
1-3" diam pipe 18" above dick to rafter/dam
3-4" - 30" - - to O.F. fuel. bunkers.
Fruboard Dick
4-4" diam pipes 18" above cover. (went up mast)
2-2" - - - with control valves leading to main air

Efficient drying appliances provided

Particulars of Gangway Cargo and Coaling Ports:—

None

Particulars of Scuppers and Sanitary Discharge Pipes — $2\frac{1}{2}$ " to 4" storm discharge valves on ships side from WC's & galley. All discharges from wash basins etc in poop, Captains quarters, forecastle fitted with storm valves on ships side with efficient traps at the inboard end. Storm valve chests of cast iron, covers of steel & valves of gunmetal.

Particulars of Side Scuttles: All side scuttles in Forecastle, poop in good condition, fitted with hinged cast iron dead lights, in good condition, permanently attached.

Particulars of Guard Rails:—
 Newcastle trunk, ports, & suboam decks fitted with guard rails
 3' 6" high (3 rails) with stanchions 5 to 6 feet apart.

Particulars of Gangways, Lifelines, etc. :—

The trunk top forms a gangway between the prop. the fore-castle

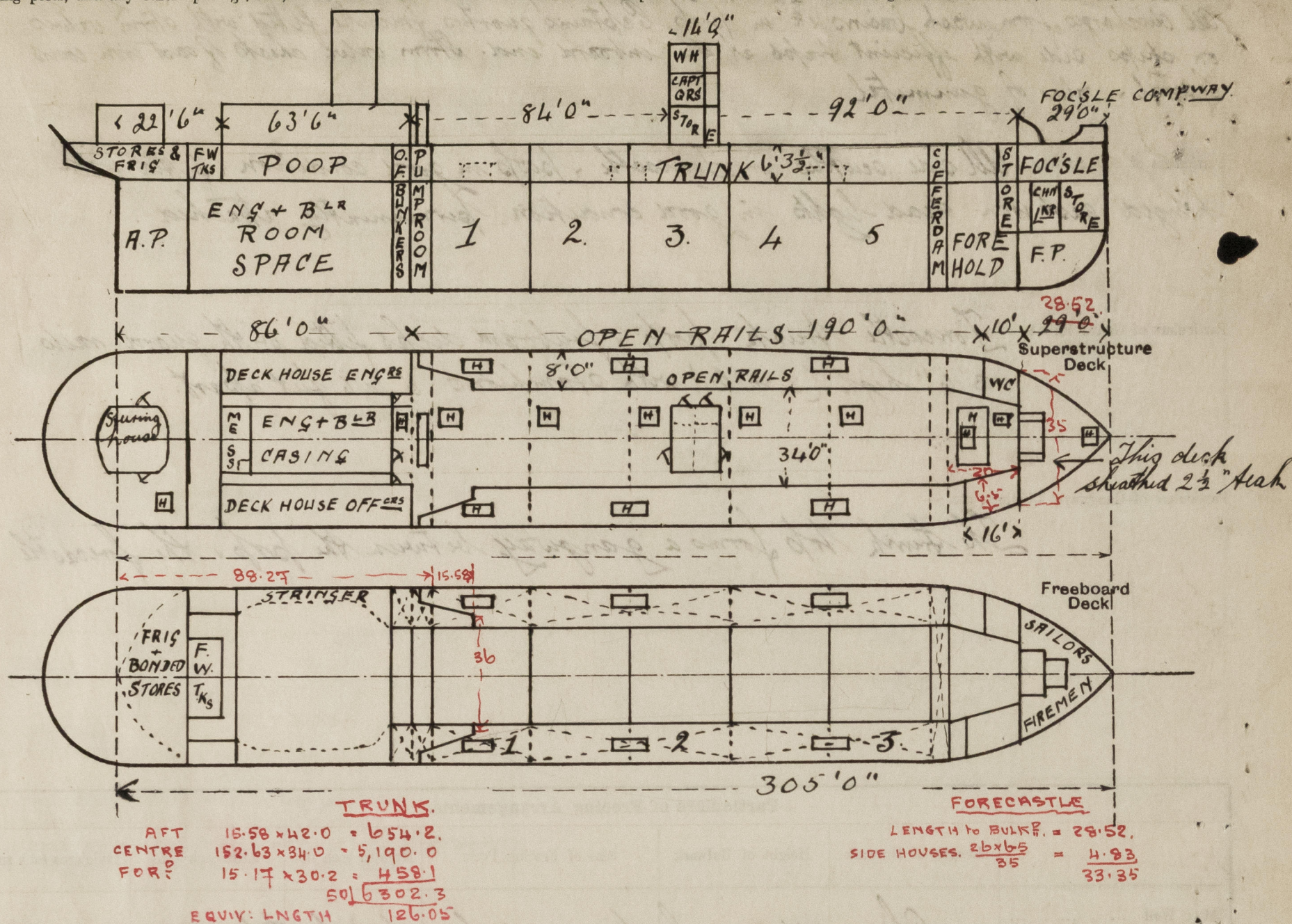
Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well	<i>Open rails on fore and aft bulk + bulk top.</i>					
Forward Well						
State position of each freeing port } After Well :— (P. and A. 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.						

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	"	.34	6"x3" $\frac{1}{8}$ ".36	24"	B to ^b	✓	✓	✓
Shaving engine deck house Raised Quarter Deck Bulkhead ...	.30	.26	4"x3" $\frac{1}{8}$ ".34	2'6"3' limit	B to ^b	2-5'0"x2'8"	18"	7'6"
Bridge, After Bulkhead ... } ...	.30	.26	3"x3" $\frac{1}{8}$ ".30	2'6"3' limit	B to ^b	1-5'0"x2'0"	18"	22'6"
Bridge, Forward Bulkhead ... } ...	.30	.26	3"x3" $\frac{1}{8}$ ".30	2'6"3' limit	B to ^b	1-5'0"x2'0"	18"	22'6"
Forecastle Bulkhead ... ..	.40	.34	3"x3" $\frac{1}{8}$ ".30	24"	B to ^b	✓	✓	7'6"
Trunk, Aft ... ..	.44	.42	3"x3" $\frac{1}{8}$ ".40	24"	B to ^b	✓	✓	6'3 $\frac{1}{2}$ "
Trunk, Forward ... ..	.44	.42	3"x3" $\frac{1}{8}$ ".38	24"	B to ^b	✓	✓	6'3 $\frac{1}{2}$ "
Exposed Machinery Casings on Free- board or Raised Quarter Decks ...	✓	-	✓	✓	✓	✓	✓	✓
Exposed Machinery Casings on Super- structure Decks Fitting for Bulkhead	.30	.26	2"x3" $\frac{1}{8}$ ".38	24"	B to ^b	1-2'3"x4'6"	18"	7'6"
Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances	✓	✓	✓	✓	✓	✓	✓	✓
Deckhouses on Frame Deck Ships ...	✓	✓	✓	✓	✓	✓	✓	✓

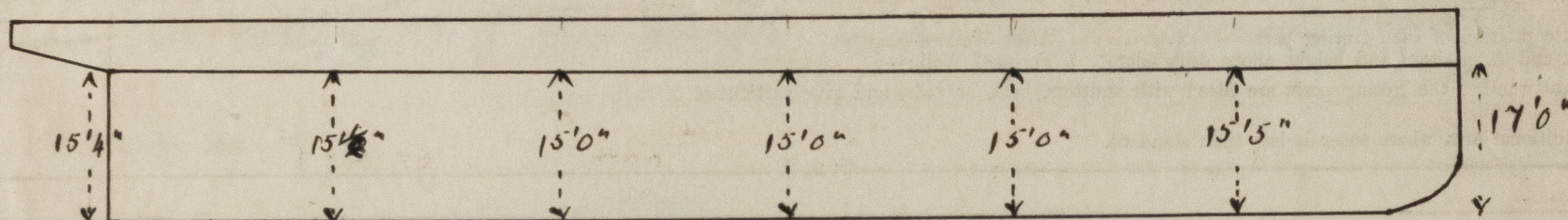
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead ... Raising engine deck house on Raised Quarter Deck Bulkhead ... Bridge, After Bulkhead ... Bridge, Forward Bulkhead ... Forecastle Bulkhead ... Exposed Machinery Casings on Free- board or Raised Quarter Decks ... Exposed Machinery Casings on Super- structure Decks, fully ^{partly} from ^{bulk} ... Machinery Casings within Superstruc- tures not fitted with Class I Closing Appliances ... Deckhouses on Flush Deck Ships ...	No openings. Stbd doors 5' x 2" capable of being manipulated from both sides. " " 5' x 2" " " " " " " " " 5' x 2" " " " " " " No opening. Stbd door on companionway capable of being manipulated from both sides. Sails + gunnery WCs on forward decks P.S. 5' x 2' 0" Stbd door 2' 3" x 2' 6" is all 8 hinges Similar door on Eng. & Off. quarters Two portable stbd doors for storage openings aft each 4' 6" x 3' 0" x 2 1/2" will stb. thick can be readily secured by 10 lock doors each. All doors within superstructure in good condition capable of being manipulated from both sides.
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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 *New Waterway Ship Building Coy. Yard No 140*

Names of sister ships *Not known*

Owners *Curacao'sche Schipwaart Maats.*

Fee *£ 150*

Received by me



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