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Index. No. **33791**
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Shelton having Shelton deck with Lounges opening, and forecabin on Shelton deck.
(Type of Superstructures.)

Port of Survey New York
Date of Survey August 18 1932
Name of Surveyor W. Bennett
Particulars of Classification + 100 A1 with freeboard.

Ship's Name M.S. "Silverleaf" Gardigan
Nationality and Port of Registry Panama
Official Number 161486
Gross Tonnage 6398
Date of Build 1930-9

Moulded Dimensions: Length 455 Breadth 61.75 Depth 30'-6 1/2"
Moulded displacement at moulded draught = 85 per cent. of moulded depth 14949 tons
Coefficient of fineness for use with Tables .717

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	30.54	(a) Where D is greater than Table depth (D - Table depth) R =		Moulded Breadth (B)	61.75
Stringer plate	.04	(30.58 - 30.33) 3.0 = .75		Standard Round of Beam = $\frac{B \times 12}{50}$	14.82
Sheathing on exposed deck	(None)	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Ship's Round of Beam	15 1/2
T $\left(\frac{L-S}{L}\right) =$		If restricted by superstructures		Difference	.68
Depth for Freeboard (D) =	30.58			Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L}\right)$	$\frac{.68}{4} \times .0054$

DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	Standard Height of Superstructure
Poop enclosed	41.42	11'	-	41.42	7'-6"
" overhang	.33			.17	R.Q.D.
R.Q.D. enclosed					Deduction for complete superstructure 42.0
" overhang					Percentage covered $\frac{S}{L} = 100$
Bridge enclosed		9'-6"	-		" $\frac{S_1}{L} = 99.46$
" overhang aft	408.25	to	-	408.25	" $\frac{E}{L} = 99.46$
" overhang forward	.33	12'-6"		.25	Percentage from Table, Line A. 99.33 (corrected for absence of forecastle (if required))
Forecastle enclosed					Percentage from Table, Line B. (corrected for absence of forecastle (if required))
" overhang					Interpolation for bridge less than 2L (if required)
Trunk aft					Deduction = 41.72
" forward	4.67		-	2.46	
Tonnage opening aft	5.53	11'	-	2.46	
" forward					
Total	455.00			452.55	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	Mean actual sheer aft =	Mean standard sheer aft =
A.P.	55.50	1		55.50	38.75	38.75	1		80.75	Excess	
1/4 L from A.P.	24.70	4		98.80	16.6	16.59	4		143.72	Mean actual sheer forward =	Mean standard sheer forward =
1/2 L	6.10	2		12.20	4.15	4.15	2		17.76	Excess	
Amidships		4					4			Length of enclosed superstructure forward of amidships =	
3/4 L from F.P.	12.20	2		24.40	8.9	8.94	2		28.92	" aft of "	
1/4 L	49.40	4		197.60	35.8	35.75	4		234.08		
F.P.	111.00	1		111.00	71.5	71.50	1		131.50		
Total				499.50					636.73		

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75 - S}{2L} \right) = \frac{137.23}{18} \times .25 = -1.91$

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 = 30.58
Summer freeboard = 4.02
Moulded draught (d) = 26.56

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 6.64 6 3/4"

Addition for Winter North Atlantic Freeboard (if required) = Nil

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = 15570$
Tons per inch immersion at summer load water line

T = 56.5

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

= 6.88

7"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.717 + .68}{1.36} = 1.397$

Depth Correction ... 75
Deduction for superstructures ... 41.72
Sheer correction ... 1.91
Round of Beam correction ...
Correction for Thickness of Deck amidships ...
Other corrections, scantlings, etc. ...

75 43.63 - 42.88
Summer Freeboard = 48.18

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

Tropical Fresh Water Line above Centre of Disc	13 3/4 39	Tropical Fresh Water Freeboard	122 1/4 41-0 1/4"
Fresh Water Line	4 178	Fresh Water	877 2-10 1/2"
Tropical Line	6 3/4 171	Tropical	1048 3-5 1/4"
Winter Line below	6 3/4 171	Winter	1055 3-5 1/2"
Winter North Atlantic Line		Winter North Atlantic	1397 4-7"

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MARKING FORM

RECEIVED 25 AUG 1932

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS											
On Shelter Deck				On Upper Deck							
Description of Hatchway	No. 1	No. 2	No. 3	No. 6	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7
Dimensions of Hatchway	31'6" x 21'	32' x 21'	29'4" x 21'	9'6" x 17'	31'6" x 21'	32' x 21'	4'0" x 8'	32' x 21'	4'8" x 21'		
COAMINGS	Height above Deck	36"	Same as		9" B.A.	9" B.A.	24"	12"	Same as		
	Thickness	.50			.44	.44	.50	.50			
	Stiffeners	8" x 3 1/2" x .44	No. 1		None	None	None	None			
	Brackets, Stays	3'	3	2	None	None	None	None			
HATCH BEAMS	Number	5	5	5	5	5	5	5	5		
	Spacing	5'25"	5'33"	4'9"	4'75"	5'25"	5'33"	5'33"	5'33"		
	Scantling and Sketch	4 1/2 x 3 x .44	15 1/2 x .32	Same as	4 x 3 1/2 x .44	4 x 3 1/2 x .44	4 x 3 1/2 x .44	4 x 3 1/2 x .44	3 x 3 x .44		
	Bearing Surface	3 1/2'	3 1/2'	3 1/2'	3 1/2'	3 1/2'	3 1/2'	3 1/2'	3 1/2'		
FORE AND AFTERS	Number										
	Spacing										
	Unsupported Lengths										
	Scantling* and Sketch										
HATCH COVERS	Material	wood		Same		wood	wood	Steel	Insulated		
	Thickness	2 1/2"		as No. 1		2 1/2"	2 1/2"	50"	10"		
	How fitted	F.A.				F.A.	F.A.	Hinged	Hatched		
	Bearing Surface	3				3	3	stiffened	10" x 1"		
Spacing of Cleats	24"		Same as		24"	24"	(Holes 12" apart)	None			
Number of Tarpaulins	3		No. 1		1	1	None	None			

*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. - Strong and waterproofed.
 Are lashings provided in accordance with rule requirements? ☒ Yes. 3 On No. 1-2-3-4-5. - 2 On No. 6.

Particulars of fiddle, funnel and ventilator coamings :-

No fiddle. The funnel is riveted to steel boat deck plating. One opening in funnel on after side 55" x 19" with 18" door of steel with handle both sides. The E.C. skylight coaming is 12" @ sides, 48" @ centre, 5/16" thick, and closed with strong steel hinged flaps, secured from below. Five E.C. vents each 24" dia. 8 ft. coamings above boat deck, x 7/16" thick. No stays. Provided with wood covers and canvas.

Particulars of Flush Bunker Scuttles :-

None.

Particulars of Companionways :-

None.

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

The holds are ventilated by 36", 30", and 24" dia. vents. Coamings are generally 60" x 7/16" and bracketed to deck. Vents to crew accommodation spaces and peaks. Three at 12" dia, four at 9" dia, and ten at 6" dia. All generally 30" coamings - by 5/16". Wood covers and canvas provided for all these vents.

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

Air pipes to double bottom and peak tanks are 3" and 4" dia. coamings 27" high. No other pipes are provided. Efficient means of closing provided.

Particulars of Gangway Cargo and Coaling Ports :-

None.



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Lloyd's Register
Foundation

Particulars of Scuppers and Sanitary Discharge Pipes —

The shelter deck is scuppered by means of 7" x 4" oval holes (S.P. 88.) thro' gunwale bar. ~~Some~~ Scuppers (back side) are led from shelter 'tween deck space and discharge about 24" below 2nd deck (upper). Bronze storm valves are fitted on all of these pipes. There is no crew accommodation below the line of the shelter deck. Storm (bronz) valves are fitted on all discharges from spaces above the shelter deck.

Particulars of Side Scuttles:

No portlights are fitted except in upper forecastle space, and these are ^{all} well provided with c.s. deadlights.

Particulars of Guard Rails:—

Plati bulwarks fitted amidships (see sketch) 42" high, with 6" B.A. rail and stays about 6 ft apart. Open rails forward and aft are 42" high and have three rods. Upper forecastle has open rail 46" high with three rods.

Particulars of Gangways, Lifelines, etc.:—

Hand rails are fitted on sides of houses on shelter deck &c. Lifelines are arranged when required.

Particulars of Freeing Arrangements.

	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
Tonnage After Well	5'-4" -	11 ft.	25" x 12" ✓	1P. 1S.	2.08 ✓	✓
Forward Well	✓	✓	✓	✓	✓	✓

State position of each freeing port
(F. and A. position and height above deck edge)

~~Tonnage~~ Well:— In well aft. 15' above deck.
Forward Well:— ✓

State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— Hinged flap with one strong back.

Additional area where sheer is less than standard. ✓

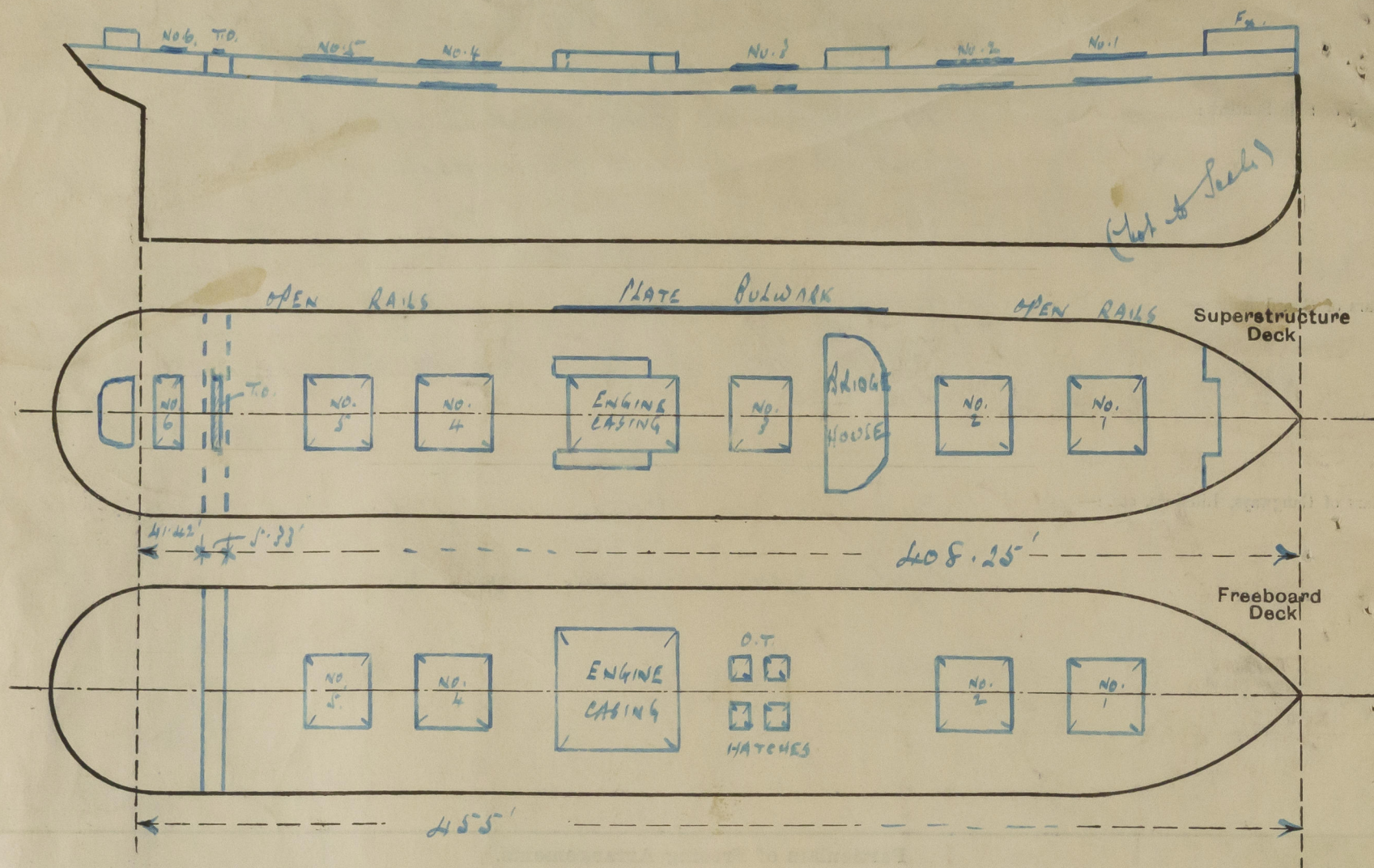
Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	✓	1/4" -	5x3x 3/8 O.A.	42" -	None -	5'x3' -	18" -	11" -
Raised Quarter Deck Bulkhead ...	✓							
Bridge, After Bulkhead	✓	1/4" -	5x3x 3/8 O.A.	42" -	None -	5'x3' -	18" -	15" -
Bridge, Forward Bulkhead	✓							
Forecastle Bulkhead	✓							
Trunk, Aft	✓							
Trunk, Forward	✓							
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	✓							
Exposed Machinery Casings on Super-structure Decks (partly exposed.)	✓	5/16 -	3 1/2 x 3 x 3/8 O.A.	32" -	Bkts. Typ -	68" x 24" -	18" -	8' 3" -
Machinery Casings within Superstructures 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).

Poop Bulkhead	2 1/2" storm boards, full height in riveted channels.
Raised Quarter Deck Bulkhead ...	✓
Bridge, After Bulkhead	2 1/2" -
Bridge, Forward Bulkhead	✓
Forecastle Bulkhead	✓
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	✓
Exposed Machinery Casings on Super-structure Decks	5/16" steel hinged doors, operable from both sides.
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	There are no doors in casing in shelter houses.
Deckhouses on Flush Deck Ships ...	✓

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 shewn on the following sketches:—



State any special features in the construction of the ship:— *This vessel was surveyed while lying in the water at foot of 54th Street, Brooklyn N.Y.*

Deadweight at full draft	26' 1 1/2"	—	9482 tons	} Taken from Survey Report file.
" " " "	25' 2"	—	9000 "	
Tons per inch	26' 6"	—	56.5	
" " " "	25' 6"	—	56.05	

Builder's name and yard number *Garland & Poff Co. (Belfast.)*

Names of sister ships *"Silurcandel", "Silurclement", "Silurcypress"*

Owners *Silur Line Ltd (S. & J. Thompson)*

Fee *£ 4 90⁰⁰*
plus 200
charged at New York

Received by me _____