

Rpt. C.11

Witvliet  
31629

W446-0229 1/2

WRECK BAY

No. 174-1

Index. No. 30917.  
(For London Office only.)Lloyd's Register of Shipping.  
SURVEYS FOR FREEBOARD.

N20538

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having \_\_\_\_\_

Port of Survey Rotterdam

(Type of Superstructures.)

Date of Survey 6-13/8-1931

Name of Surveyor L. Vuyk

Ship's Name Single screw motor vessel  
"SLIEDRECHT"

Nationality and Port of Registry Dutch  
Rotterdam

Official Number \_\_\_\_\_

Gross Tonnage 5132.58

Date of Build 1924-9

Moulded Dimensions: Length 402'-1" Breadth 63'-3 1/2" Depth 27'-9 1/2"

Moulded displacement at moulded draught = 85 per cent. of moulded depth 11217 tons

Coefficient of fineness for use with Tables .792

Particulars of Classification +100A1  
Carrying Petroleum in Bulk  
Longitudinal framing at bottom  
and at decks.

Depth for Freeboard (D) 28.00

Depth correction (a) Where D is greater than Table depth (D-Table depth) R = (28.04 - 26.81) x 3 = +3.69

(b) Where D is less than Table depth (if allowed) (Table depth-D) R = \_\_\_\_\_

Round of Beam correction Moulded Breadth (B) 53.0

Standard Round of Beam =  $\frac{B \times 12}{50} = \frac{53.0 \times 12}{50} = 12.72$

Ship's Round of Beam = 13.25

Difference .53

Restricted to \_\_\_\_\_

Correction =  $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L}) = \frac{.53}{4} \times (1 - \frac{S_1}{L}) = .13 \times .6614 = -.09$

Depth for Freeboard (D) = 28.04

If restricted by superstructures \_\_\_\_\_

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
op enclosed ...	99.25	99.25	7.5	-	99.25
overhang ...					
Q.D. enclosed ...					
overhang ...					
ridge enclosed ...					
overhang aft ...					
overhang forward ...					
le enclosed ...	36.87	36.87	7.5	-	36.87
overhang ...					
unk aft ...					
forward ...					
nnage opening aft ...					
forward ...					
Total ...	136.12	136.12			136.12

Standard Height of Superstructure 7.50

R.Q.D. \_\_\_\_\_

Deduction for complete superstructure 42.0

Percentage covered  $\frac{S}{L} = \frac{136.12}{402.1} = 33.86\%$

$\frac{S_1}{L} = 33.86\%$

$\frac{E}{L} = 33.86\%$

Percentage from Table, Line A. 24.86

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. \_\_\_\_\_

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required) \_\_\_\_\_

Deduction =  $42.00 \times .2486 = -10.44$

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
...	50.21	1		50.21	31.75	31.75	1		31.75
in A.P. ...	22.34	4		89.36	8.75	8.75	4		35.00
" ...	5.52	2		11.04	1.50	1.50	2		3.00
hips ...	-	4		-	-	-	4		-
in F.P. ...	11.05	2		22.10	3.25	3.25	2		6.50
" ...	44.68	4		178.72	19.25	19.25	4		77.00
...	100.42	1		100.42	64.00	64.00	1		64.00
Total ...				451.85					217.25

Mean actual sheer aft = Deficient

Mean standard sheer aft = \_\_\_\_\_

Mean actual sheer forward = Deficient

Mean standard sheer forward = \_\_\_\_\_

Length of enclosed superstructure forward of amidships = Does not apply

" aft of " = Does not apply

Correction =  $\frac{\text{Difference between sums of products}}{18} = \frac{234.60}{18} = 13.03$

( $75 - \frac{S}{2L}$ ) =  $(75 - \frac{136.12}{2 \times 402.1}) = 75 - .1693 = 74.8307$

limited on account of midship superstructure. \_\_\_\_\_

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

Correction for Tropical Freeboard. \_\_\_\_\_

Correction for Winter and Winter North Atlantic Freeboard. \_\_\_\_\_

Depth to Freeboard Deck = 28.04

Summer freeboard = 5.74

Moulded draught (d) = 22.30

Correction for Tropical freeboard and addition for Winter freeboard =  $\frac{d}{4}$  inches = 5.57

Correction for Winter North Atlantic Freeboard (if required) = 4.02

Deduction for Fresh Water. Displacement in salt water at summer load water line  $\Delta = 10,842$  tons per inch immersion at summer load water line  $T = 43,81.5$

Deduction =  $\frac{\Delta}{40T}$  inches = 6.25

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient  $\frac{.792 + .68}{1.36} = \frac{1.472}{1.36}$

Depth Correction ... 3.69

Deduction for superstructures ... 10.44

Sheer correction ... 7.57

Round of Beam correction ... .09

Correction for Thickness of Deck amidships ... -

Other corrections, scantlings, etc. ... -

Summer Freeboard = 68.92

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: 68.92

Tropical Fresh Water Line above Centre of Disc 11.82" = 30 cm

Fresh Water Line " " 6.25" = 16 "

Tropical Line " " 5.57" = 14 "

Winter Line below " " 5.57" = 14 "

Winter North Atlantic Line " " 9.59" = 24 "

Tropical Fresh Water Freeboard ... 57.10

Fresh Water " " 62.67

Tropical " " 63.35

Winter " " 74.49

Winter North Atlantic " " 78.51

29 DEC 1931

106 MAY 1936

8 FEB 1932

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### PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway			All hatchways with oiltight steel covers, also the forehold						
Dimensions of Hatchway			All 3'-10" wide and from 4'-0" to 6'-0" long						
COAMINGS	<div> <div>Height above Deck</div> <div>Thickness</div> <div>Sides</div> <div>Stiffeners</div> <div>Brackets, Stays</div> </div>	<div> <div>Manicargo tanks craming bulb angle. 9 x 3 1/2 x .44</div> <div>Summer tanks skunked. 38" x .45" sides and ends.</div> <div>none</div> </div>							
HATCH BEAMS	<div> <div>Number</div> <div>Spacing</div> <div>Scantling and Sketch</div> </div>	none							
FORE AND AFTERS	<div> <div>Bearing Surface</div> </div>	Steel oiltight hatchways with oiltight steel covers.							
HATCH COVERS	<div> <div>Material</div> <div>Thickness</div> <div>How fitted</div> <div>Bearing Surface</div> </div>	<div> <div>All covers steel, hinged. of 1/2" plate</div> <div>oiltight fastened with bolts, spaced as per Rule. Covers stiffened by angles as per Rule.</div> </div>							
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?

none

none.

none.

none.

Particulars of fiddle, funnel and ventilator coamings:—

Casing top above steel porch deck	10'-0"	a) covers over fiddle grawings steel, luted, 8 in.	
Steel covers on hinges over openings	—		b) covers of motor room sky light steel, luted, 8 in.
Ventilator coamings on fiddle top	36" high		c) covers galley sky light steel, luted, 6 in.

plate coamings on fiddle top.

— diameter 36" and 18" — plate 40" — 8" — 30" or casing

Particulars of Flush Bunker Scuttles:— *none fitted.*

Particulars of Companionways: — Efficient steel constructed companionways.  
height of coaming 500 mm above maindeck.  
Steel watertight doors on hinges for closing same.

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

On foot of 1 ventilator to ~~horizontal~~ coamings height - 36"  
 behind nose plate.  
 Diam. 11" coaming as per Rule. thickness - .40

3 On upper deck. } See particulars on sketch of f.  
11 On poop deck.

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

air pipes cargo tanks carried up along masts.  
At poop front bulkhead: 2 air pipes of fuel bunker, carried to level of poop deck; cap patent for gas escape.  
2 air pipes of cofferdam, carried to level of poop deck; goose-neck.

On forecastle deck, behind rising plate 1 air pipe to forepeak tank, goose-neck 3'-0"

Particulars of Gangway Cargo and Coaling Ports:— *none fitted.*—

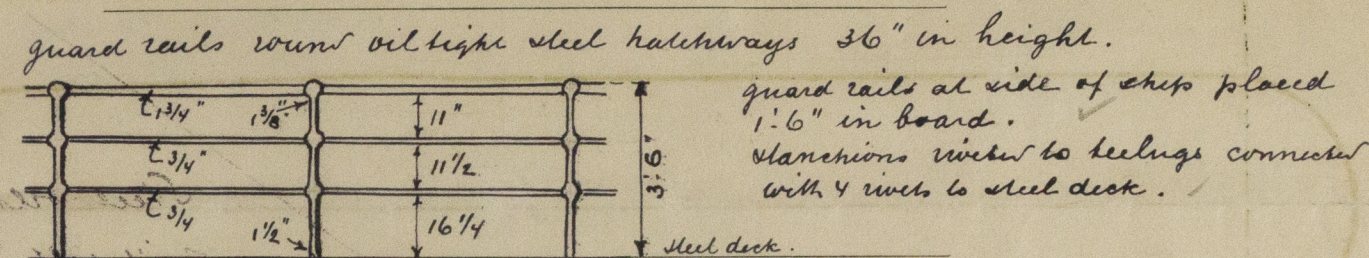
On poop, alongside casing: to oilburners, 1 airpipe each side 6'-0" } cap patent for gas escape  
to lubricating oil tank, 1 each side 4'-6" }  
to ballast tanks, 1 airpipe each side 6'-0" } gooseneck ✓  
to ballast tanks, 1 airpipe each side 4'-6" }

Particulars of Scuppers and Sanitary Discharge Pipes — 8 scuppers through stringer angle; 1 scupper pipe at poop post.  
Sanitary Discharge pipes fitted with stormvalves.

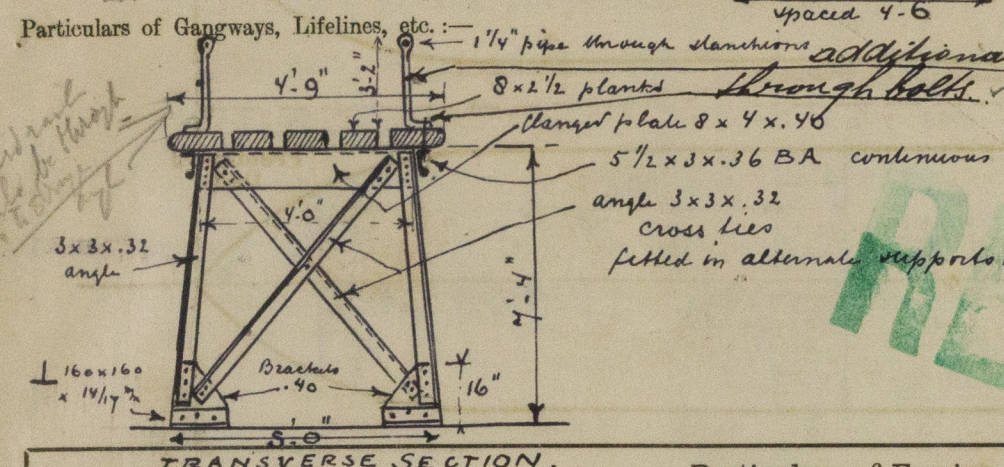
Particulars of Side Scuttles:

none fitted below maindeck. ✓

Particulars of Guard Rails :—



Particulars of Gangways, Life



Gangway extending from bridge to  
poop deck over pump room house  
constructed as per sketch.

Supports spaced  $\pm 8'-0"$  apart.

Before and after bracing provided      Doesn't off bracing provided

TRANSVERSE SECTION.		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 ... ..		open railing see sketch above		✓		STEAMERS, NOT
Forward Well ... ..	109'0"	3'6"	3.5 x 1.75	4	24.5	21.8

State position of each freeing port ... .. } After Well: — ✓  
(F. and A. position and height above deck edge) } Forward Well: — fore and aft position see sketch, lower edge 10 1/2" above steel deck.  
State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such: — angle frame 3 x 3 x .30 round freeing port  
with 2 rails 1" dia. fitter.

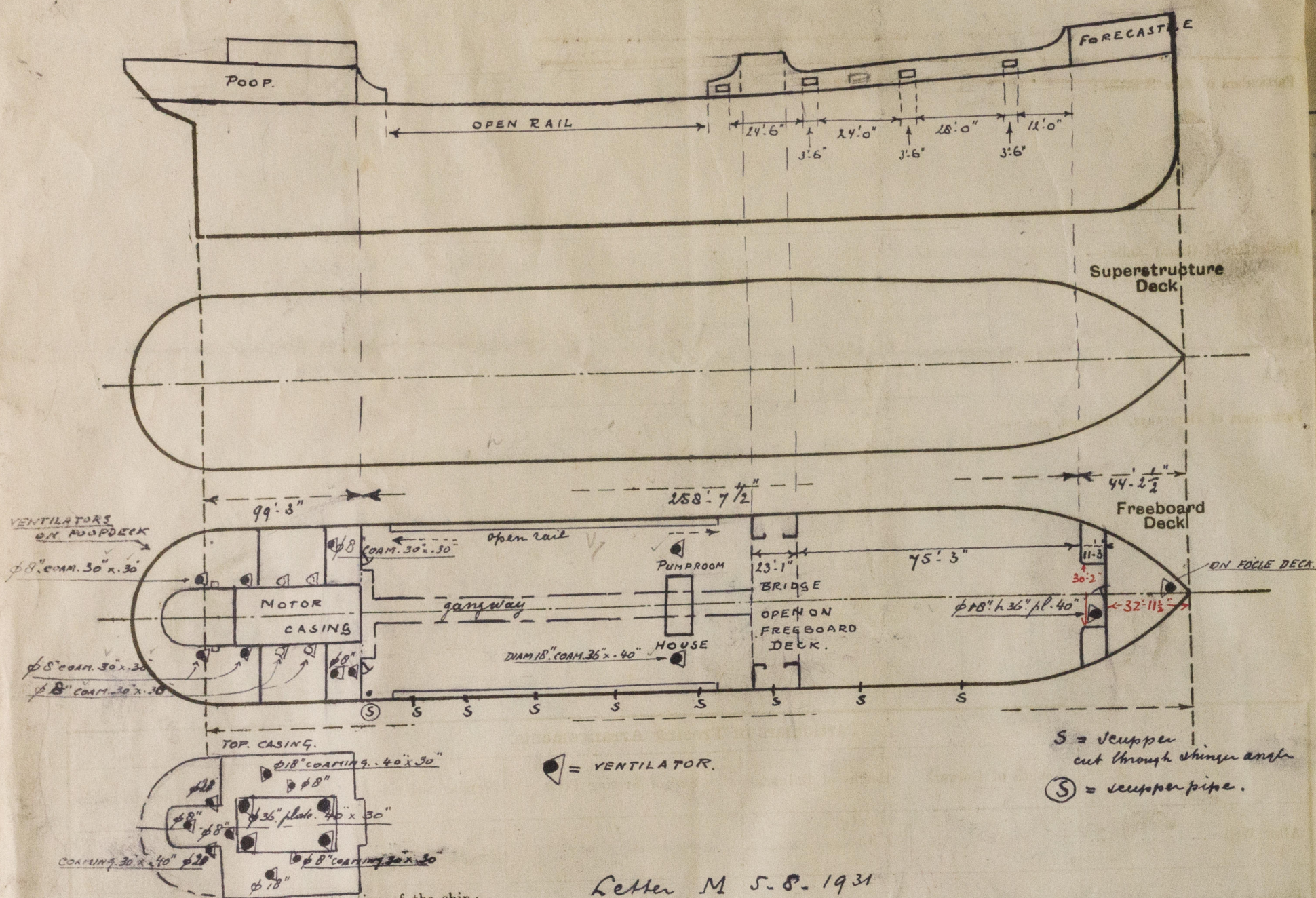
Additional area where sheer is less than standard.

	Coaming	Plating	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead ... ..	.44"	.40"	8½ x 3½ x .64 BA.	34"	baskets	4'6" x 2'-3"	15"	7'-6"
Raised Quarter Deck Bulkhead ...	✓							
Bridge, After Bulkhead ... ..	✓	Open space under hids						
Bridge, Forward Bulkhead ... ..	✓	no end bulkheads						
Forecastle Bulkhead ... ..		vertical plating .32"	4½ x 3 x .32	30"	none fitted	4'9" x 2'-3"	18"	7'-6"
Trunk, Aft ... ..	✓							
Trunk, Forward ... ..	✓							
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	✓							
Exposed Machinery Casings on Super-structure Decks ... ..	✓	vertical plating .46	flanged 6½"	± 4'6"	baskets on top	5'0" x 2'0"	18"	above poop deck 10'0"
Machinery Casings within Superstructures not fitted with Class I Closing Appliances ... ..	✓		green part of motor casing enclosed by sidehouses.					
Deckhouses on Flush Deck Ships ...	✓							

Particulars of Closing Appliances (state if capable of being manipulated from both sides).			
Poop Bulkhead	...	...	two steel hinged doors. manipulated from <del>outside only</del> <sup>both sides</sup> Should be from both sides
Raised Quarter Deck Bulkhead	...	✓	
Bridge, After Bulkhead	...	✓	
Bridge, Forward Bulkhead	...	✓	
Forecastle Bulkhead	...	...	one steel hinged door. manipulated from <del>outside only</del> <sup>both sides</sup> Should be from both sides
Exposed Machinery Casings on Free-board or Raised Quarter Decks	...	✓	
Exposed Machinery Casings on Super-structure Decks	...	...	one steel hinged door each side. manipulated from both sides.
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	...	...	
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 shown on the following sketches:—



State any special features in the construction of the ship:—

Letter M 5-8-1931

This report is being forwarded at the request of the Owners in order to hear whether all deck arrangements particularly the gangway do agree with the new regulations as they propose to have them now made in order in case this would be required.

Your early reply will be appreciated..

*L. Vuy*

Builder's name and yard number

Names of sister ships

Owners

Fee £

Received by me

*Will be charged when finally dealt with..*



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