

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index No. **27730**
(For London Office only.)No. **21299**

Computation of Freeboard for Steamer, Sailing Ship, Tanker

Having **POOP, BRIDGE AND FORECASTLE**

Port of Survey **Rotterdam**

Date of Survey **21-22-7-32**

Name of Surveyor **J. H. W. W. W.**

Particulars of Classification **+100 A1**
S.S. 107. No. 2-30

(Type of Superstructures.)

Ship's Name	Nationality and Port of Registry	Gross Tonnage	Date of Build
WINSUM	Dutch. Amsterdam	3245	1921/3

Moulded Dimensions: Length **101.14** Breadth **14.35** Depth **7.50**

Moulded displacement at moulded draught = 85 per cent. of moulded depth **7460 cu. metres**

Coefficient of fineness for use with Tables **.790**

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	7.50	(a) Where D is greater than Table depth (D-Table depth) R = $(7.518 - 6.746) \times 8.33 \times 25.55$.772		Moulded Breadth (B)	14.35
Stringer plate	0.013	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = -		Standard Round of Beam = $\frac{B}{50}$.293
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	✓			Ship's Round of Beam	0.305
Depth for Freeboard (D) = 7.518		If restricted by superstructures -		Difference	.012
				Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L}\right)$.012(1 - .4316) .002

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed	7.366	7.366	2.134		7.366	Standard Height of Superstructure 2.081
„ overhang	0.914	457			457	„ „ R.Q.D. 952
R.Q.D. enclosed						Deduction for complete superstructure 952
„ overhang						Percentage covered $\frac{S}{L} = 44.17$
Bridge enclosed	26.669	26.669	2.134		26.669	„ „ $\frac{S_1}{L} = 43.16$
„ overhang aft	0.736	552			552	„ „ $\frac{E}{L} = 43.16$
„ overhang forward	0.736	368			368	Percentage from Table, Line A. -
Fore enclosed	7.545	7.545	2.134		7.545	(corrected for absence of forecastle (if required)) -
„ overhang	0.736	724			724	Percentage from Table, Line B. 30.18
Trunk aft						(corrected for absence of forecastle (if required)) -
„ forward						Interpolation for bridge less than 2L (if required) -
Tonnage opening aft						Deduction = $952 \times .3018 = .287$
„ forward						
Total	44.702	43.681			43.681	

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Ordinate	S	Product	
1/4 L from A.P.	487	4	1948	477	477	1908	Mean actual sheer aft = Deficient
1/2 L „	122	2	244	119	119	238	Mean actual sheer forward = Deficient
Amidships	-	4	-	-	-	-	Mean standard sheer aft = Deficient
3/4 L from F.P.	244	2	488	238	238	476	Mean standard sheer forward = Deficient
1/4 L „	975	4	3900	953	953	3812	Length of enclosed superstructure forward of amidships = 7
F.P.	2194	1	2194	2184	2184	2184	aft of „ = 1
Total			9871			9710	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \text{Deficient } \frac{161}{18} \left(\frac{.75 - .2208}{.5292} \right) = + .005$

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 = **7.518**

Summer freeboard = **1.290**

Moulded draught (d) = **6.228**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{48} = 13 \text{ cm.}$ Addition for Winter North Atlantic Freeboard (if required) = **-**

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**13 cm.**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.68 + .790}{1.36} = \frac{1.47}{1.36}$

	+	-
Depth Correction	.164	-
Deduction for superstructures	-	.287
Sheer correction	.005	-
Round of Beam correction	-	.002
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	.169	.289

Summer Freeboard = **1.293**SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc	.26 cm
Fresh Water Line	.13 "
Tropical Line	.13 "
Winter Line below	.13 "
Winter North Atlantic Line	-

Tropical Fresh Water Freeboard	103 "
Fresh Water	116 "
Tropical	116 "
Winter	142 "
Winter North Atlantic	-

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS								Bridge Deck		
Position of Hatchway			N°1	N°2	N°3	N°4	N°5	N°3		
Dimensions of Hatchway			31'6" 18'0"	30'1" 18'0"	20'0" 16'6"	30'1" 18'0"	30'1" 18'0"	18'6" 18'0"		
COAMINGS	{	Height above Deck	35	35	29x3 1/2 x 50	35	35	18"		
		Thickness { Sides	40	40		40	40	42		
		Ends	44	44		44	44	42		
		Stiffeners	3 x 3	3 x 42		3 x 3	3 x 42			
		Brackets, Stays	3			4	4			
HATCH BEAMS	{	Number	5	5	4	5	5	3		
		Spacing	equal						equal	
		Scantling and Sketch	I (3x) I (3x) I 16"x50 as N°2 as N°2						I 24"x34	
		Bearing Surface	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	/						/	
		Bearing Surface	/						/	
HATCH COVERS	{	Material	pine	as N°1				pine		
		Thickness	2 7/8	as N°1				2 7/8		
		How fitted	longitudinal	as N°1				longitudinal		
		Bearing Surface	3"	3"	3"	3"	3"	3"		
Spacing of Cleats			24x6	24x6	24x6	24x6	24x6	24x6		
Number of Tarpaulins			2	2	2	2	2	2		
*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 fiddle, funnel and ventilator coamings:—
*Stakehold gratings covered by strong steel hinged covers.
 Fiddle and funnel ventilators in efficient condition.
 Engine skylight of steel strongly constructed.*

Particulars of Flush Bunker Scuttles:—
none fitted.

Particulars of Companionways:—
*Steel companion on poop deck.
 Side of opening 4'4" x 2'3" with 10" steel hinged doors operated from both sides.*

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—
*On FREEBOARD DECK
 8 vents 14" diam coaming 36"x32"
 9 vents 14" diam coaming 36"x32" supported.
 On bridge deck, poop and forecabin deck
 2 vents 14" diam coaming 36"x32" x 42" slaps fitted
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 2 vents 14" diam coaming 36"x32" x 42" slaps fitted*

Particulars of Air Pipes in exposed positions on freeboard, raised quarter, or superstructure decks:—
*On freeboard deck.
 6 airpipes with anti-siphon valves high 36" airpipes closed by wood plugs and canvas covers.
 2 " high 5'0" airpipes closed by wood plugs and canvas covers.
 6 airpipes high 26" closed by steel cover (mushroom system).
 On superstructure decks.
 3 airpipes 10' x 20" high.*

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

Particulars of Scuppers and Sanitary Discharge Pipes:—

*Lam. lary discharges above freeboard deck non return valves at ship's side. (marked in sketch *).*

Particulars of Side Scuttles:—

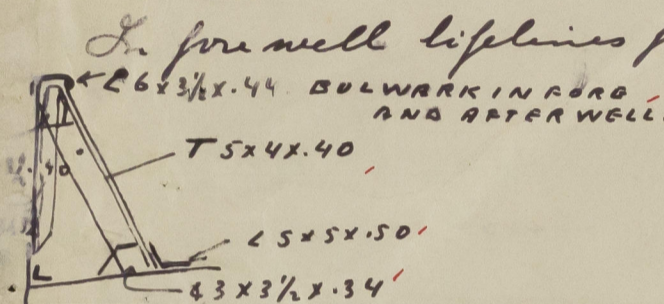
*In poop (crew space) and in forecabin space fitted with hinged deadlights.
 All scuttles of substantial construction.*

Particulars of Guard Rails:—

*on poop and forecabin guardrail height 3'0" stanchions 4'1" apart 2 rods.
 Bulwark on bridge height 3'1" stanchions 5'6".*

Particulars of Gangways, Lifelines, etc.:—

*In afterwell gangway on the level of hatchtop fitted with lifelines on each side.
 In fore well lifelines fitted on each side of the hatchways.*



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	99'10"	3'10 1/2"	20" x 22"	4	17.11 sq	
Forward Well	94'0"	3'10 1/2"	20" x 22" 20" x 15 1/2"	3	15.84 sq	

State position of each freeing port (F. and A. position and height above deck edge) After Well:— see sketch.
 State whether the freeing ports are fitted with shutters, bars, or rails, and give particulars of such:— shutters with one bar height above deck edge 13 1/2".
 Additional area where sheer is less than standard.

Particulars of Superstructures, Trunks, Casings, Deckhouses.

	Coaming	Height	Stiffeners	Spacing	End Attachments of Stiffeners	Size of Openings	Height of Sills	Height of Casings
Poop Bulkhead	✓	32	4 1/2 x 3 1/2	26"	none	4'1" x 22"	40"	7'0"
Raised Quarter Deck Bulkhead	✓	✓	✓	✓	✓	✓	✓	✓
Bridge, After Bulkhead	✓	26	4 1/2 x 3 1/2	29"	none	4'1" x 22"	19"	7'0"
Bridge, Forward Bulkhead	✓	26	4 1/2 x 3 1/2	30"	none	4'1" x 22"	23"	7'0"
Forecastle Bulkhead	✓	26	4 1/2 x 3 1/2	30"	none	4'0" x 36"	24"	7'0"
Trunk, Aft	✓	✓	✓	✓	✓	✓	✓	✓
Trunk, Forward	✓	✓	✓	✓	✓	✓	✓	✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	✓	✓	✓	✓	✓	✓	✓	✓
Exposed Machinery Casings on Superstructure Decks	✓	✓	✓	✓	✓	✓	✓	✓
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	✓
Raised Quarter Deck Bulkhead	✓
Bridge, After Bulkhead	✓
Bridge, Forward Bulkhead	✓
Forecastle Bulkhead	✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	✓
Exposed Machinery Casings on Superstructure Decks	✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	✓
Deckhouses on Flush Deck Ships	✓

*Steel hinged doors operated from both sides.
 Steel plates closed by 3 cross channel bars secured by bolts through plate.
 Steel hinged doors closed by two cross channel bars secured by bolts passing through bulkhead.
 Steel hinged doors closed from one side by clips fitted on bolts in bulkhead.
 Steel hinged doors operated from both sides.
 Steel hinged doors operated from both sides.*

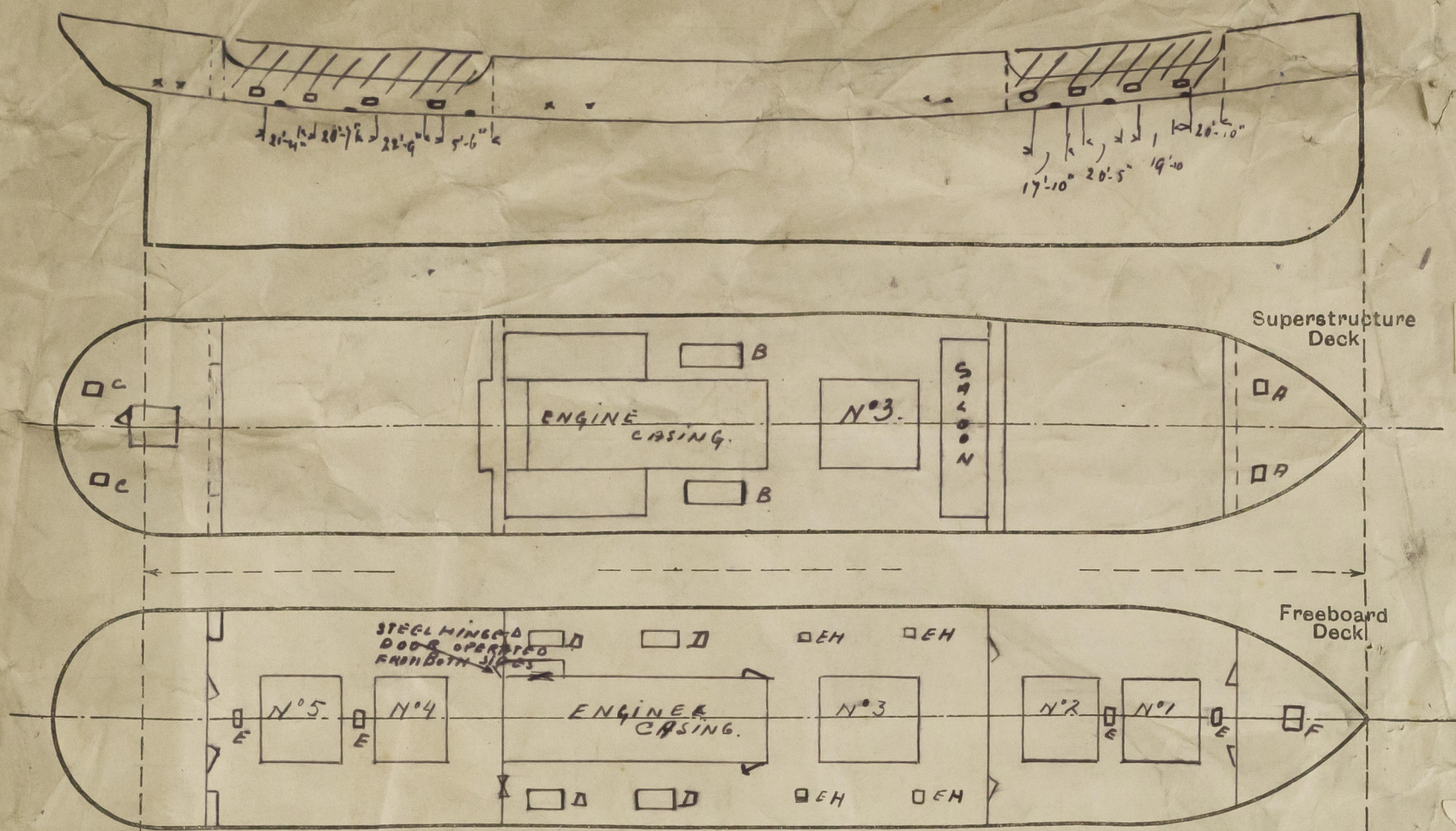
Winsum

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003450-003451-0172

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:—



HATCHES. A. 2'-6" x 3'-5" casing 2'-1/2" x 3'-0" wood hatch 2'-1/2" x 3'-0" all latches & fastenings and
B. 7'-2" x 4'-0" " 1'-8" x 4'-0" " 2'-1/2" x 3'-0" chocks and battens as per clause
C. 2'-0" x 2'-0" " 1'-8" x 3'-6" " 2'-1/2" x 3'-0" with the Rules
D. 7'-0" x 3'-0" " 2'-9" x 3'-5" " 2'-1/2" x 3'-0" socket for upright
E. 4'-0" x 2'-4" " 3'-2" x 3'-0" " 2'-1/2" x 3'-0"
F. 3'-5" x 2'-7" " 3'-3" x 3'-1/2" in which rivet
EH 2'-7" x 2'-6" " 2'-9" x 3'-1/2" frame of 10" high. heavy latches 2'-1/2" x 3'-0"

State any special features in the construction of the ship:— particulars for this report have been taken whilst vessel was lying afloat.

The owner proposes to carry timber deck cargo in both holds.
Wood uprights are fitted in strong double bogs, and spaced not more than allowed by the Rules viz 10'-0" and 6'-6" from overhang in way of bulkheads.
Butmark lashings are fitted with holes to receive the lashings for the uprights.
It is the practice to use 2 3/4" steel wire ropes for overall lashings passing through strong eyeplates riveted on sheerstrake and in equal number to that of the uprights.
In connection with the steel wire lashings, a hump binder (3") is used each fitted with a stretching screw.
The whole lashing arrangement can be released at any time by cutting the hump binders.
In double bottom tanks N°5 (frame N°32÷53) N°4 (frame N°54÷62) N°2 (frame N°76÷102) a watertight can bulkhead is fitted.
Permanent butmarks are fitted in fore and afterwell (see sketch) access will be available at all time to all parts necessary for crew and for handling the vessel.
Lifelines will be lashed to the upright 4'-0" above deck cargo.
The steering leads are efficiently protected in way of the deck cargo by strong steel covers. There is a hand steering gear on the poop deck to poop's quarter through compass. (see report).

Builder's name and yard number. Amkorp Eng Co Hoboken

Names of sister ships.

Owners. Sloons, Elbaals, Oosthuis (Vinken & Co)

Fee £ fl 142, 20 will be Received by me X. H. Wehrmeyer