

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index No. **30855**
(For London Office only.)

009067-009033-0113 1/2

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having Complete superstructure with tonnage opening

Port of Survey Beira

(Type of Superstructures.)

Date of Survey

Ship's Name HOLLAND Nationality and Port of Registry Dutch Official Number ✓ Gross Tonnage 895 Date of Build 1923
S'gravenhage

Name of Surveyor N. J. MAY B.Sc.

Moulded Dimensions: Length 210' Breadth 33.25' Depth 13.375' 4.090m.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 1752 m³ tons
Coefficient of fineness for use with Tables 778

Particulars of Classification +100A1
with freeboard
see P. No 2-32

Depth for Freeboard (D)
Moulded depth ... 4.090
Stringer plate ... 3/8 .009
Sheathing on exposed deck
 $T \left(\frac{L-S}{L} \right) =$
Depth for Freeboard (D) = 4.099

Depth correction
(a) Where D is greater than Table depth
(D-Table depth) R =
(b) Where D is less than Table depth (if allowed)
(Table depth-D) R =
8.33 (4.267-4.099) 16.17 = - 23.7
If restricted by superstructures

Round of Beam correction
Moulded Breadth (B) 10.13 m.
Standard Round of Beam = $\frac{B \times 12}{50} = 203 \frac{7}{8}$
Ship's Round of Beam = 8" on shelter deck
Difference nil on main "
Restricted to
Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{203}{4} \times .0094 = \text{NIL}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	<u>18'</u>	<u>5.49</u>			<u>5.49</u>
" overhang ...	<u>5.49</u>				
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...	<u>188'</u>	<u>57.30</u>	<u>6'-9 1/2"</u>		<u>57.30</u>
Fore enclosed ...	<u>57.30</u>				
" overhang ...					
Trunk aft ...					
" forward ...	<u>1.22</u>				
Tonnage opening aft ...	<u>4</u>	<u>.61</u>			<u>.61</u>
" forward ...					
Total ...	<u>64.01</u>	<u>63.40</u>			<u>63.40</u>

Standard Height of Superstructure 1830 ✓
" " R.Q.D.
Deduction for complete superstructure 686 ✓
Percentage covered $\frac{S}{L} = 100\%$ ✓
" " $\frac{S_1}{L} = 99.06\%$ ✓
" " $\frac{E}{L} = 99.06\%$ ✓
Percentage from Table, Line A.
(corrected for absence of forecastle (if required)) 98.84% ✓
Percentage from Table, Line B.
(corrected for absence of forecastle (if required))
Interpolation for bridge less than 2L (if required)
Deduction = 686 x .9884 = - 678 7/8 ✓

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P. ...	<u>787</u>	1	<u>787</u>	<u>26.62</u>	<u>916</u>	1	<u>916</u>
1/2 L from A.P. ...	<u>350</u>	4	<u>1400</u>	<u>11.26</u>	<u>408</u>	4	<u>1632</u>
2/3 L " ...	<u>87</u>	2	<u>174</u>	<u>2.81</u>	<u>101</u>	2	<u>202</u>
Amidships ...		4			<u>108</u>	4	<u>432</u>
2/3 L from F.P. ...	<u>175</u>	2	<u>350</u>	<u>7.11</u>	<u>193</u>	2	<u>386</u>
1/2 L " ...	<u>700</u>	4	<u>2800</u>	<u>28.45</u>	<u>722</u>	4	<u>2888</u>
F.P. ...	<u>1574</u>	1	<u>1574</u>	<u>59.50</u>	<u>1751</u>	1	<u>1751</u>
Total ...			<u>7085</u>		<u>4240</u>		<u>8003</u>

Mean actual sheer aft = Excess.
Mean standard sheer aft
Mean actual sheer forward = Excess.
Mean standard sheer forward

Length of enclosed superstructure forward of amidships =
" " aft of " = 2.5.5.

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{918 - 4240}{18} \times .25 = - 18 \frac{1}{3}$

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 = 4.099
Summer freeboard = .050
Moulded draught (d) = 4.049

Deduction for Tropical freeboard and addition for Winter freeboard = 48 inches = 8%
Addition for Winter North Atlantic Freeboard (if required) = 5%

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 = $\frac{\Delta}{40T}$ inches
= 9%

TABULAR FREEBOARD corrected for Flush Deck (if required)
Correction for coefficient

	+	-
Depth Correction ...		<u>23</u>
Deduction for superstructures ...		<u>678</u>
Sheer correction ...		<u>18</u>
Round of Beam correction ...		
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc. ...		
	<u>714</u>	<u>714</u>

Summer freeboard = - 44 - 39

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

Tropical Fresh Water Line above Centre of Disc ...	<u>9%</u>	Tropical Fresh Water Freeboard ...	<u>4%</u>
Fresh Water Line " " ...	<u>9%</u>	Fresh Water " " ...	<u>4%</u>
Tropical Line " " ...	<u>NIL</u>	Tropical " " ...	<u>5%</u> (Limited)
Winter Line below " " ...	<u>8%</u>	Winter " " ...	<u>13%</u>
Winter North Atlantic Line " " ...	<u>13%</u>	Winter North Atlantic " " ...	<u>18%</u>

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Lloyd's Register
Information

(2)

Particulars of fiddle, funnel and ventilator coamings :—

7 Hiddley covers hinged & flanged. Coaming angle $2" \times 2" \times \frac{1}{4}"$
 Tunnel casing coaming angle $3\frac{1}{4}" \times 3\frac{1}{4}" \times \frac{1}{2}"$
 2 Stokehold ventilators 30" diameter Coaming angle $3" \times 3" \times \frac{3}{8}"$

Two openings on Bridge Deck sport side closed with steel plate & covered with 2½" timber decking
ditto ditto starboard ditto ditto.
above not used.

Companion ways on skeleton deck port and starboard.
3'-4" wide x 4'-1" high. Height to sill 18"
Door openings 24" x 60" high. Teak door with bar grills. Forward
ends have W.T. doors $\frac{3}{8}$ " plate hinged and secured with flynut.

Particulars of Ventilators in exposed positions on freeboard and superstructure decks:—			
2-	ventilators forward of E.R. skylight	2" diameter leading to E.R.	11 feet high $3\frac{1}{2}$ " plate
2-	" aft "	" 20" "	" 7 $\frac{1}{2}$ " " "
1-	" " "	" 13" "	" galley 3 $\frac{1}{2}$ " " 8" "
1-	" " "	" 9 $\frac{1}{2}$ " "	" store 2-6" " 1 $\frac{1}{2}$ " "
2-	" on shelter deck aft of No. 3 hatch	12" diameter leading to hold	" 1 $\frac{1}{2}$ " "
3-	" aft of bridge deck casing	18" diameter "	" roof quarters hold 3 $\frac{1}{2}$ " plate
2-	" forward "	18" "	" "
wood plugs & canvas covers supplied			
2-Scuttle forward of E.R. skylights to W.C.s		coaming height 30" 40" with 2 hinged covers, length 5'-8" x 2'-1" wide	
2-Scuttle to galley		coaming height 9 $\frac{1}{4}$ " with two hinged covers, length 6'-4" x 2'-2" wide	

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

5 - each side P & O. 6 inches diameter x 9' high on Bridge Deck leading to quarter or shelter deck	Lifted over opening
2 - do do 4 1/2 do x 15 do Goose neck on Bridge Deck. leading to tanks	Canvas covers
Shelter deck (ft well)	or wood plugs.
4 - Port side 2 3/4 diameter steel pipes x 1/4 thick leading to tanks, Height to opening 2'-4"	
4 - Starb. do do do do do do do do do do	
2 - Port side against bridge deck bulkhead 4 1/4 steel pipes, Height 2'-4" leading to tanks	
1 - Starb. do do do do do do do do do do	
Shelter Deck (Aft well) 2 Port Side 1 Starb. side 2 3/4 vent pipes as above	

Particulars of Gangway Covers and Cooling Ports:—

Litted over opening
Canvas covers
or wood plugs.

Coaling Ports { 36" x 24 1/2" } port side
do do { 36" x 33 1/2" } starboard side } not water-tight.

Holland

Particulars of Scupperns and Sanitary Discharge Pipes:—

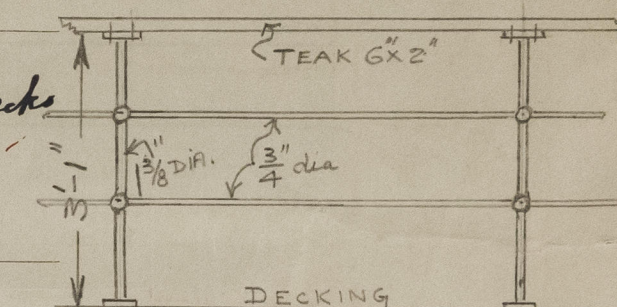
The scuppern from the Deck 4 overboard scupper from shelter tween decks provided seven decks with facing fore with storm valves in substantial cast steel casings in the lower end have been having screw down plugs at their inner ends with permanently closed to quick attachments.

Each of the scuppern each had fair attachment
of the lower well has been fitted with 8" S.D.W.R Valves capable of being operated from the Shelter deck.

Particulars of Side Scuttles:—

Scuttle on bridge deck alongside E.R. casing & Saloon Casing. Height $9\frac{1}{2}$ " with hinged steel covers.
Side Scuttles $1\frac{1}{2}$ " x 9" diameters. Frames & rings of substantial section brass castings.
No deadlights fitted to frames of scuttles.

Guard rails round Superstructure Decks



3'-6" wide gangways in P. & S. guardrails
4. - Lifelines

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"	4" x 3" x 3/8"	2'-10"	—	—	—	—
Raised Quarter Deck Bulkhead								
Bulkhead in Tonnage Wall								
Bridge, After Bulkhead	—	1/4"	4" x 3" x 3/8"	2'-10"	—	4' x 3'	24"	7'
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	9"	1/4"	2 1/2" x 2 1/2" x 3/8"	24"	—	2'-0" x 5'-4"	9"	8'
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on Flush Deck Ships								

Poop Bulkhead

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

Machinery Casings within Superstructures not fitted with Class I Closing Appliances

Deckhouses on Flush Deck Ships ...

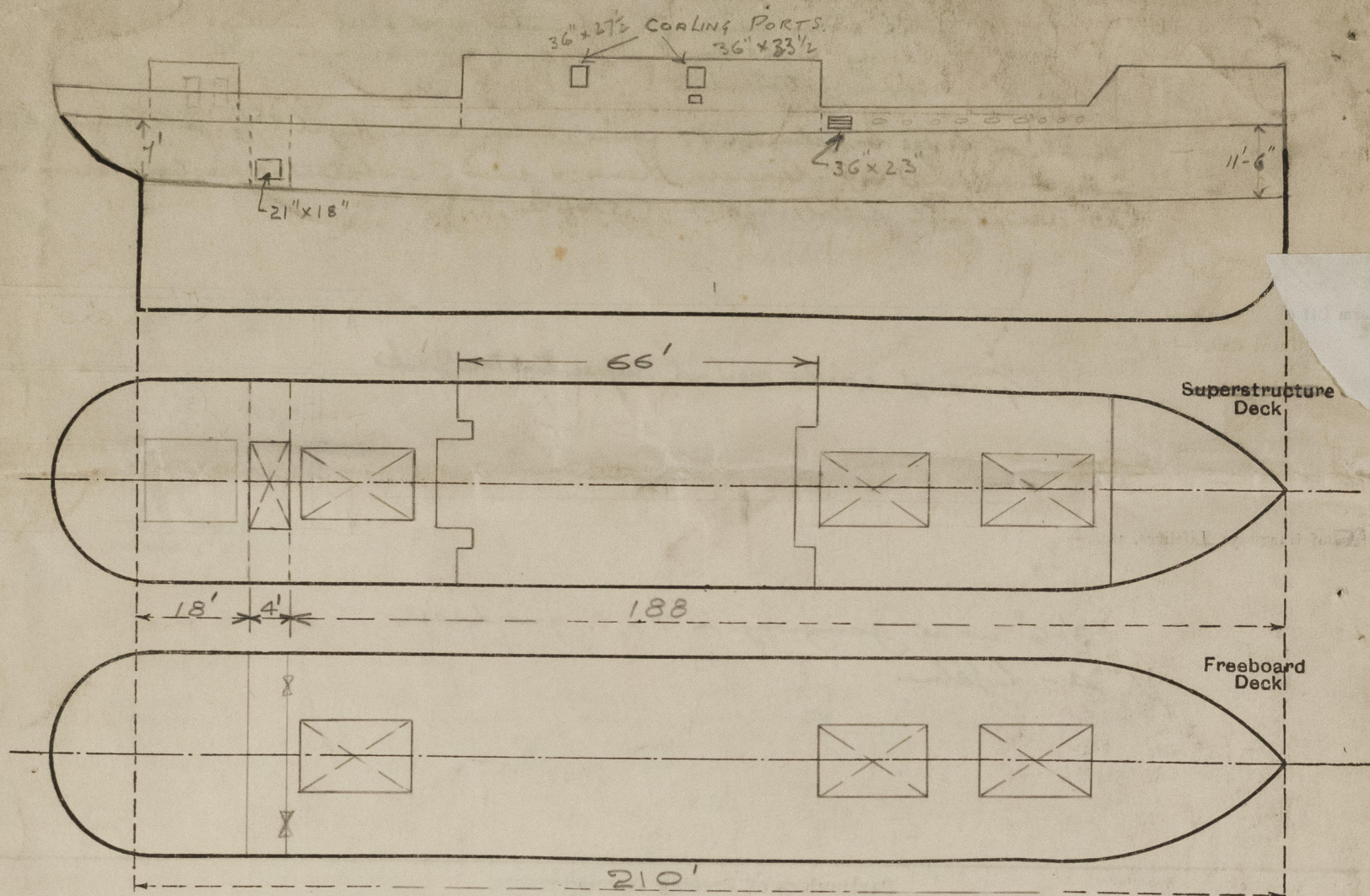
Bulkhead of Tonnage well two openings to No 3 hold closed with 2 1/2" thick timbers secured with 4 hook bolts to bulkhead stiffening angles with flynuts in tonnage well & also strapped & padlocked in tonnage well.

Starboard side E.R. Casings on Bridge deck one steel door 2' wide x 4' high to Store Room

Port side " " " " " Teak " " " To Messing Room

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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 shewn on the following sketches:—



Shelter deck .3" plating covered 2½" teak decking 7 x A wells & companionways
Bridge deck .35" stringer plate 42" wide at side 12" wide at E.P. casing covered with 2½" teak decking
Coaling ports closed with .37" plate secured from inside
Freeing ports in Tonnage Well closed with 3/8" plate, double hinged and 3 dead locks

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

Builder's name and yard number

New Waterway Shipbuilding Co. Schiedam Rotterdam N^o 121

Name of sister ships

Owners

Fee £

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