

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

 Index No. 34993
 (For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

Port of Survey

(Type of Superstructures.)

Date of Survey 4. 7. 36.

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

S. H. W. R. No 1531.

Name of Surveyor

Moulded Dimensions: Length 385.00 Breadth 54.00 Depth 31.00Moulded displacement at moulded draught = 85 per cent. of moulded depth 11825 tonsCoefficient of fineness for use with Tables .755Particulars of Classification +100 A1Carrying petroleum in bulk
(contempler)

Depth for Freeboard (D)

Depth correction

Round of Beam correction

Moulded depth 31.00(a) Where D is greater than Table depth 5.38
(D - Table depth) R = $(31.05 - 25.67) 2.962$ Stringer plate05 $= + 15.93'' \times$

Sheathing on exposed deck

 $T \left(\frac{L-S}{L} \right) =$ (b) Where D is less than Table depth (if allowed)
(Table depth - D) R =Depth for Freeboard (D) = 31.05If restricted by superstructures ☒Moulded Breadth (B) 54.00Standard Round of Beam = $\frac{B \times 12}{50} = 12.96''$ Ship's Round of Beam = 13.50''Difference Excess .54''

Restricted to

Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.54}{4} \times .486 = -.06$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	<u>108.50</u>	<u>108.50</u>	<u>8'-0"</u>	<input checked="" type="checkbox"/>	<u>108.50</u>
" overhang	<u>3.00</u>	<u>1.50</u>			<u>1.50</u>
R.Q.D. enclosed					
" overhang					
Bridge enclosed	<u>33.00</u>	<u>33.00</u>	<u>8'-0"</u>	<input checked="" type="checkbox"/>	<u>33.00</u>
" overhang aft					
" overhang forward					
F'cle enclosed	<u>51.06</u>	<u>51.06</u>	<u>8'-0"</u>	<input checked="" type="checkbox"/>	<u>51.06</u>
" overhang	<u>7.44</u>	<u>3.72</u>			<u>3.72</u>
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	<u>203.00</u>	<u>197.78</u>			<u>197.78</u>

Standard Height of Superstructure 7.35'" " R.Q.D. ☒Deduction for complete superstructure 41.00''Percentage covered $\frac{S}{L} = 52.73\%$ " " $\frac{S_1}{L} = 51.38\%$ " " $\frac{E}{L} = 51.38\%$ Percentage from Table, Line A. Tanker. 42.52
(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 = $41.00 \times .4252 = -17.43''$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	<u>48.50</u>	1		<u>48.50</u>	<u>48.50</u>	<u>48.50</u>	1		<u>48.50</u>
$\frac{1}{8}$ L from A.P.	<u>21.58</u>	4		<u>86.32</u>	<u>21.562</u>	<u>21.562</u>	4		<u>86.25</u>
$\frac{3}{8}$ L "	<u>5.335</u>	2		<u>10.67</u>	<u>5.437</u>	<u>5.437</u>	2		<u>10.87</u>
Amidships	<input checked="" type="checkbox"/>	4		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4		<input checked="" type="checkbox"/>
$\frac{3}{8}$ L from F.P.	<u>10.67</u>	2		<u>21.34</u>	<u>10.875</u>	<u>10.875</u>	2		<u>21.75</u>
$\frac{1}{8}$ L "	<u>43.16</u>	4		<u>172.64</u>	<u>43.125</u>	<u>43.125</u>	4		<u>172.50</u>
F.P.	<u>97.00</u>	1		<u>97.00</u>	<u>97.00</u>	<u>97.00</u>	1		<u>97.00</u>
Total	<u>436.5</u>			<u>436.47</u>					<u>436.87</u>

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{.40}{18} \left(.75 - \frac{.2637}{2} \right) = -.01''$

If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 31.05Summer freeboard = 5.06Moulded draught (d) = 25.99

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 6.49 = 6 $\frac{1}{2}$ ''

Addition for Winter North Atlantic Freeboard (if

required) = $3.85 + 6.49 = 10.34 = 10\frac{1}{4}''$

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 $= \frac{6.49}{4} = 1.62''$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

 $\frac{.755 + .68}{1.36} = \frac{1.435}{1.360} = 1.055$ Depth Correction 15.93Deduction for superstructures 17.43Sheer correction01Round of Beam correction07Correction for Thickness of Deck amidships -Other corrections, scantlings, etc. -15.93 17.51 - 1.58Summer Freeboard = 60.73SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:Tropical Fresh Water Line above Centre of Disc 13''Fresh Water Line " " 6 $\frac{1}{2}$ ''Tropical Line " " 6 $\frac{1}{2}$ ''Winter Line below " " 6 $\frac{1}{2}$ ''Winter North Atlantic Line " " 10 $\frac{1}{4}$ ''Tropical Fresh Water Freeboard 3' 14 $\frac{3}{4}$ ''Fresh Water " " 4' - 6 $\frac{1}{4}$ ''Tropical " " 4' - 6 $\frac{1}{4}$ ''Winter " " 5' 17 $\frac{1}{4}$ ''Winter North Atlantic " " 5' - 11''

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway	...	...	...	...	...	...	...	...	...
Dimensions of Hatchway	...	...	...	...	...	...	...	...	...
COAMINGS	Height above Deck	...	...	...	...	...	...	...	...
	Thickness	...	...	...	...	...	...	...	...
	Sides	...	...	...	...	...	...	...	...
	Ends	...	...	...	...	...	...	...	...
HATCH BEAMS	Number	...	...	...	...	...	...	...	...
	Spacing	...	...	...	...	...	...	...	...
	Scantling and Sketch	...	...	...	...	...	...	...	...
	Bearing Surface	...	...	...	...	...	...	...	...
FORE AND AFTERS	Number	...	...	...	...	...	...	...	...
	Spacing	...	...	...	...	...	...	...	...
	Unsupported Lengths	...	...	...	...	...	...	...	...
	Scantling* and Sketch	...	...	...	...	...	...	...	...
HATCH COVERS	Material	...	...	...	...	...	...	...	...
	Thickness	...	...	...	...	...	...	...	...
	How fitted	...	...	...	...	...	...	...	...
	Bearing Surface	...	...	...	...	...	...	...	...
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 fiddle, funnel and ventilator coamings :—

Particulars of Flush Bunker Scuttles :—

Particulars of Companionways :—

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

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

Particulars of Gangway Cargo and Coaling Ports :—

Particulars of Scuppers and Sanitary Discharge Pipes :—

Particulars of Side Scuttles :—

Particulars of Guard Rails :—

Particulars of Gangways, Lifelines, etc. :—

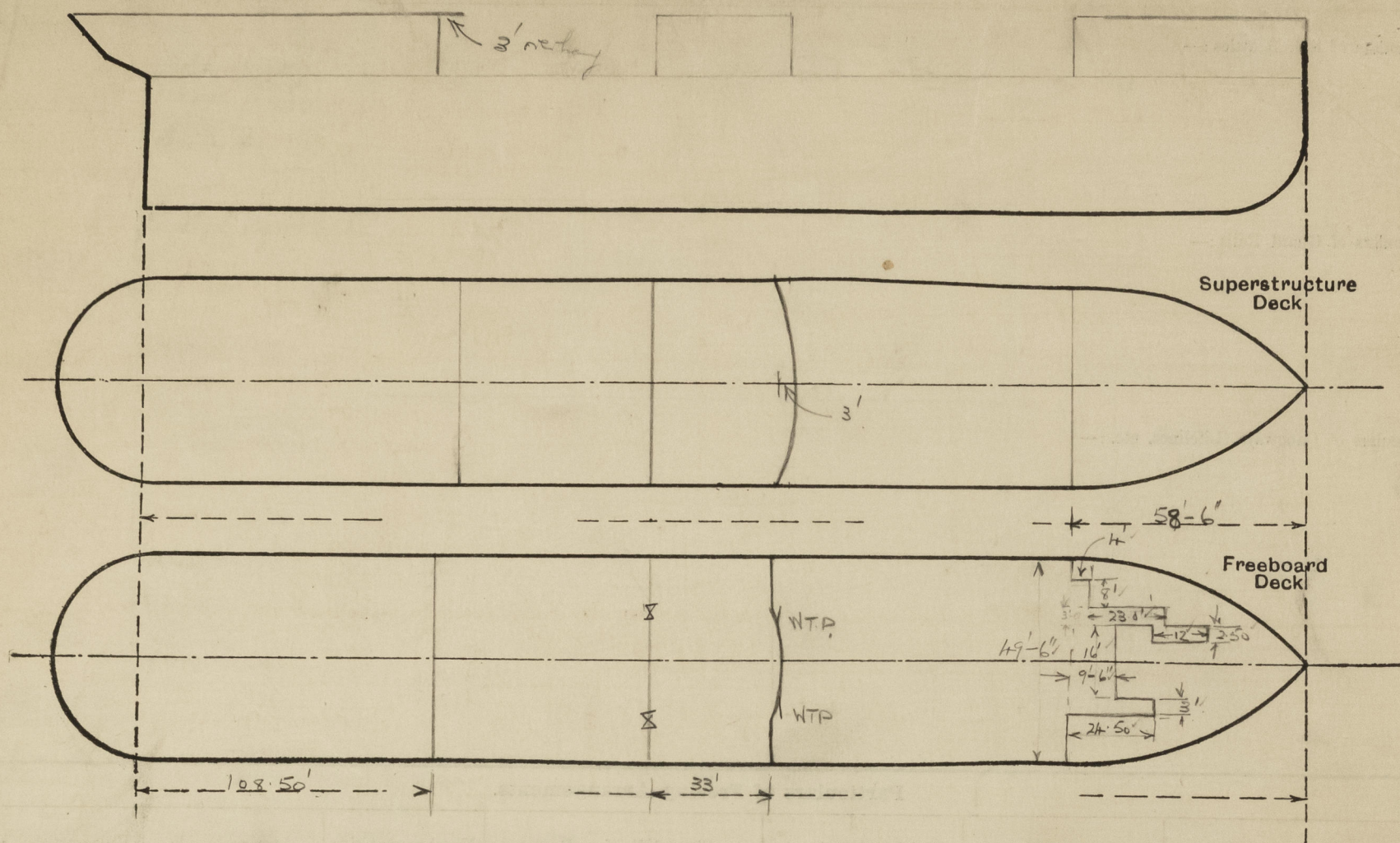
Particulars of Freeing Arrangements.						
	Length of Bulwark	Height of Bulwark	Size of Freeing Ports	Number each side	Area each side	Rule area each side
After Well
Forward Well

State position of each freeing port ... { After Well :—
 (F. 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.

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
Raised Quarter Deck Bulkhead
Bridge, After Bulkhead
Bridge, Forward Bulkhead
Forecastle Bulkhead
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	...

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:—

Forecastle
Recesses
58.50
7.44 O.H.
51.06 equs. X

Recesses	8 x 4	=	32.00
	27 x 3	=	81.00
	12 x 2.5	=	30.00
	16 x 9.5	=	152.00
	24.5 x 3	=	73.50
			368.50
	368.50	=	7.44

160
152

Builder's name and yard number

Names of sister ships

Owners

Fee £

Received by me



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