

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. 23845
(For London Office only.)No. 100812

W142

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having Flush deck with ForecastlePort of Survey Liverpool

(Type of Superstructures.)

Date of Survey July 1932Ship's Name TAYLOR

Nationality and Port of Official Number

Gross Tonnage

Date of Build

(ex "TEIGN")

Registry

BritishCardiff1356802041914-10M.Name of Surveyor R.R. RuttenMoulded Dimensions: Length L.W.L. 110.3Breadth 21.0Depth 11.0

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

451

tons

Coefficient of fineness for use with Tables

.730Particulars of Classification 100. A.1.SS 100.3-1.27SS B.R. No. 1-30

Depth for Freeboard (D)

Moulded depth	...	...	...	11.0
Stringer plate	...	...	...	.03
Sheathing on exposed deck	...	...	...	14
$T \left(\frac{L-S}{L} \right) =$	...	...	...	2.0
Depth for Freeboard (D) =	...	...	...	11.17

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 =	...	...	...	...
If restricted by superstructures	...	...	...	...

Round of Beam correction

Moulded Breadth (B)	...	...	...	21.0
Standard Round of Beam = $\frac{B \times 12}{50}$	...	...	...	5.04
Ship's Round of Beam	...	...	...	5.4
Difference	...	...	...	.21
Restricted to	...	...	...	...
Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right)$	...	...	...	...

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed
" overhang
R.Q.D. enclosed
" overhang
Bridge enclosed
" overhang aft
" overhang forward
Fore enclosed
" overhang
Trunk aft
" forward
Tonnage opening aft
" forward
Total

Standard Height of Superstructure	...	...	...	6.00
" " R.Q.D.	...	...	...	...
Deduction for complete superstructure	...	...	...	17.03
Percentage covered $\frac{S}{L} =$	...	...	...	20.15
" " $\frac{S_1}{L} =$	...	...	...	20.15
" " $\frac{E}{L} =$	...	...	...	20.15
Percentage from Table, Line A.	...	...	...	10.07
(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 = 17.03×1.007	...	...	...	17.11

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.
$\frac{1}{2}L$ from A.P.
$\frac{3}{4}L$
Amidships
$\frac{3}{4}L$ from F.P.
$\frac{1}{2}L$
F.P.
Total

Mean actual sheer aft = Deficient
Mean standard sheer aft = DeficientMean actual sheer forward = Deficient
Mean standard sheer forward = DeficientLength of enclosed superstructure forward of amidships = 7
" " aft of " = 1Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{46.09}{18} \left(\frac{75-100.7}{2 \times 110.3} \right) = +1.67$

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	=	11.20
Summer freeboard	=	1.25
Moulded draught (d)	=	9.95

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = $2.49 = 2\frac{1}{2}$

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

TABULAR FREEBOARD corrected for Flush Deck (if required)

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

Summer Freeboard = 14.96SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: 1'-3"

Tropical Fresh Water Line above Centre of Disc	...	...	...	...
Fresh Water Line	...	...	...	...
Tropical Line	...	...	...	...
Winter Line	below	...	...	...
Winter North Atlantic Line	...	...	...	...
Tropical Fresh Water Freeboard	...	...	...	...
Fresh Water	...	...	...	...
Tropical	...	...	...	...
Winter	...	...	...	...
Winter North Atlantic	...	...	...	...

W552-0223

Lloyd's Register of Shipping
1906 Freeboard
Foundation

PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS									
Description of Hatchway				...	...	1			
Dimensions of Hatchway				...	...	28'-0" x 12'-0"			
COAMINGS	{	Height above Deck		...	34" above wood deck.				
		Thickness	Sides	...	1/4"				
			Ends	...	3/8"				
		Stiffeners		...	7 x 3 B.R. Subport cuts	28" above wood etc.			
		Brackets, Stays		...	8 - 65 x 38 B.P.P.				
HATCH BEAMS	{	Number		...	2				
		Spacing		...	4'-0", 8'-4", 8'-8"				
		Scantling and Sketch		...	 21 x 38 3 x 3 x 38				
		Bearing Surface		...	3.				
FORE AND AFTERS	{	Number		...	3				
		Spacing		...	3'-0"				
		Unsupported Lengths		...	8'-6", 7'-10", 8'-2"				
		Scantling* and Sketch		...	 62 x 6 6 x 6				
		Bearing Surface		...	3.				
HATCH COVERS	{	Material		...	W.W.				
		Thickness		...	2 1/4"				
		How fitted		...	Shoant				
		Bearing Surface		...	2 1/4" Sides, 1 3/4" Ch				
Spacing of Cleats				...	...	22 Ang Lugs			
Number of Tarpaulins				...	...	3.			
*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									
Are lashings provided in accordance with rule requirements? Yes									

Particulars of fiddley, funnel and ventilator coamings :—

Waves Engine Room skylight: efficient.

Steel kniged cover over Fiddley grating. Ang housing ^{filled} on

Funnel & Ventilator loadings are efficient.

Coal (Trunked) Hatch on Bow SK 36x20 Pts. Coaming 3x3x $\frac{1}{2}$ ang Bolster Thru

2 1/4" wood plug cover. with cleats 25" apart on sides & 15" apart on ends provided with one (1) pair of 1/2" diameter bolts in each corner.

Particulars of Flush Bunker Scuttles :—

1 P45 on freeboard deck, Castings fitted with bayonet joints.

Particulars of Companionways :—

Zone. ✓

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

1 Vent on Freeboard & 5. forward 12" dia Coaming 36" x 30" to Hold

1 " - - - - - 10 apr 12 " " 36 x 30 " "

1	-	-	Lele duck Pts	6	"	"	9 x 30	-	new
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1 " " " " Ch 6 " " 9 x 20 = 180 x 20

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

1 on File deck, flush brass deck piece fitted with Screwed plug. To Fore peak tank.

1. 2" dia on #456 aft 12 high with screwed plug. To after peak tank.

Particulars of Gangway Cargo and Coaling Ports :—

June.

TEIGN

Taylor.

Particulars of Scuppers and Sanitary Discharge Pipes :—

Sanitary discharge pipes fitted with storm valves about 2.0' below 46d SL from spaces above 46d Beck.
 Scupper " " " " " 2.0 " " " Beck store house pumps.

Particulars of Side Scuttles :-

Side Scuttles in Crew quarters, Fore Turn Deck, fitted with deadlights

Particulars of Guard Rails :—

Guard rails on Fore deck, 36" high, 2 rails, stanchions about 60" apart.
" " " Boat - 36 " 2 " " " 52 " -

Particulars of Gangways, Lifelines, etc. :—

~~Zone~~

Provision made for lifelines
3 stanchions fitted to hatchway
for one aft coaming stiffener with
rope attached to gully and forecable
houses.

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 <i>Fore and aft on</i> <i>bulwarks SK.</i>	<i>86'-6"</i>	<i>41" above</i> <i>wood SK.</i>	<i>21 1/2" x 15"</i>	<i>4</i>	<i>94</i>	<i>172 1/2</i>
Forward Well						

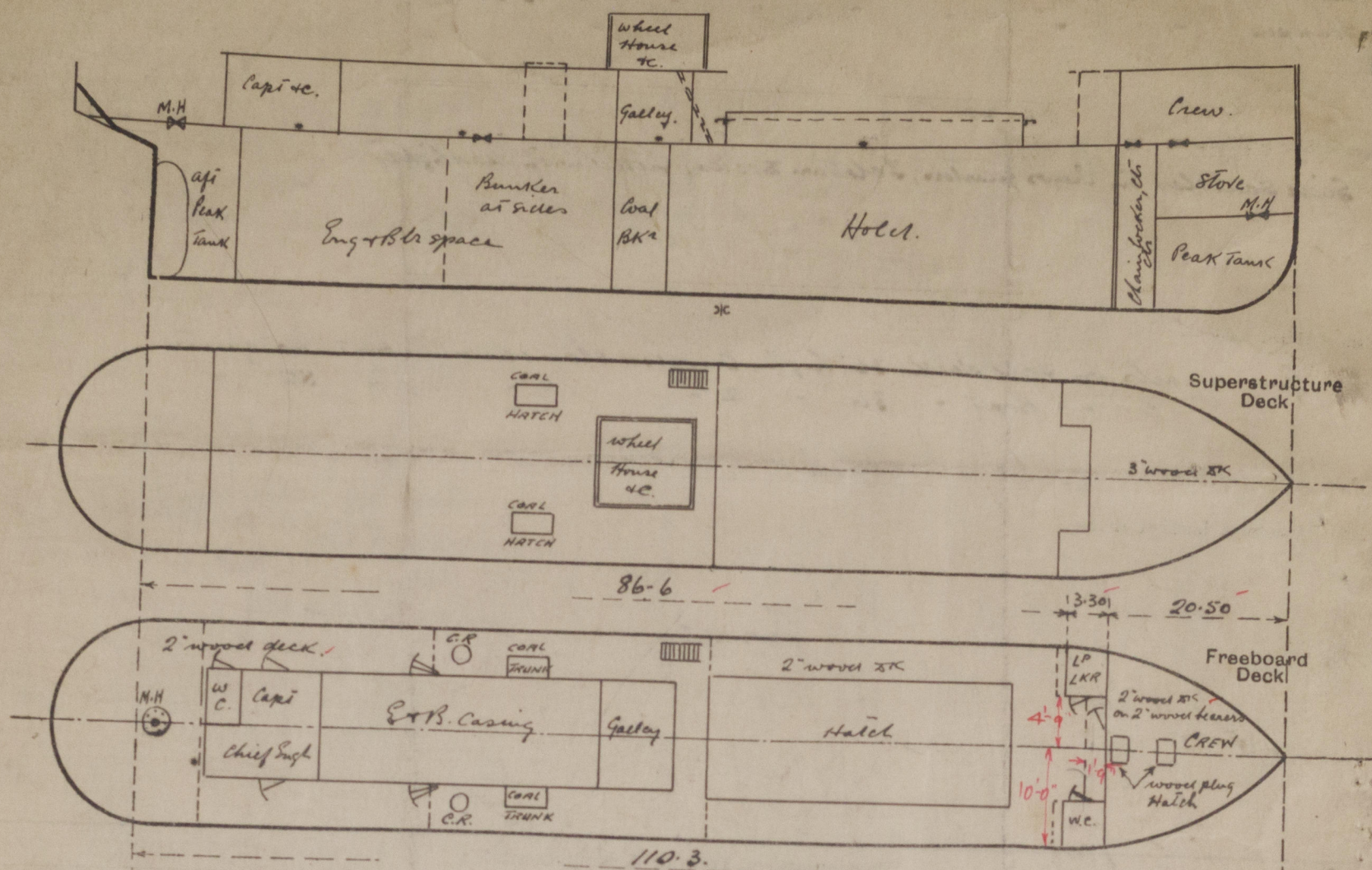
State position of each freeing port } After Well:— *Fore and aft on*
(F. and A. position and height above deck edge) *6'* } Forward Well:— *Fore and aft on*

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. *Balanced Steel Shutters.*

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 ... ..	.30	.25	3 1/2 x 3 x .30	31	✓	1 P.S. 57 x 24	17	6-10 above
Trunk, Aft								
Trunk, Forward								
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	.30	.25	2 1/2 x 2 1/2 x .30	30	attached to aft beams over	1 P.S. 59 x 24	16	6-10 above
Exposed Machinery Casings on Super-structure Decks								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on ^{1st} Deck ^{aft} Flush Deck Steps ...	.30	.25	2 1/2 x 2 1/2 x .30	30	✓	1 P.S. 59 x 24	16	6-10
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	Steel hinged door. operated from both sides							
Exposed Machinery Casings on Free-board or Raised Quarter Decks ...	Double steel hinged doors. operated from both sides							
Exposed Machinery Casings on Super-structure Decks								
Machinery Casings within Superstructures not fitted with Class I Closing Appliances								
Deckhouses on ^{1st} Deck ^{aft} Flush Deck Steps ...	Wood doors efficient. operated from both sides							

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:—



Main hole to fore peak, fitted with steel bolts & nuts & jointed steel plate cover.

Main hole, circular, to after peak tank, fitted with steel cover on top of wood deck & wood plug in centre hole.

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

Flush plug hatch to Peak Store & chain locker 20" x 2'-0" —

Deck — Smeared 20.50'
Sidehouses $\frac{5.25 \times 3.30}{10.00} = 1.73$
22.23 = 89

Freeboard survey when vessel afloat.

Builder's name and yard number Day, Summers & Co Ltd Southampton N° 160

Names of sister ships TOWY, TAFE.

Owners Spillers Ltd

Fee £ 3 : 8 : 0.

Received by me



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