

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. 21496
(For London Office only.)

No 3548

Computation of Freeboard for Steamer, ~~Sailing Ship, Tug~~
having a POOP-BRIDGE & FORECASTLE.

(Type of Superstructures.)

Port of Survey PIRREUS

Date of Survey 12th Decr. 1933.

Name of Surveyor Wm. Rennie.

Particulars of Classification +100A1.

Ship's Name SS. THEOSKEPASTI Nationality and Port of Registry Greek Andros Official Number 201 Gross Tonnage 3726 Date of Build 1911-3.

Moulded Dimensions: Length 355.0' Breadth 50.66' Depth 25.66'

Moulded displacement at moulded draught = 85 per cent. of moulded depth 8894 tons

Coefficient of fineness for use with Tables .809

Depth for Freeboard (D) 25.66'

Stringer plate .04'

Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) = \checkmark$

Depth for Freeboard (D) = 25.71

Depth correction

(a) Where D is greater than Table depth
(D-Table depth) R = $(25.71 - 23.67) 2.731 = + 5.57'$

(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) 49.70

Standard Round of Beam = $\frac{B \times 12}{50} = 11.93''$

Ship's Round of Beam = 12 1/2''

Difference .57" excess

Restricted to

Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.57}{4} \times .4968 = -.07''$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	35.75	35.75	7'-6"		35.75	Standard Height of Superstructure <u>7.05'</u>
" overhang30	.15			.15	" " R.Q.D. <u>✓</u>
R.Q.D. enclosed ...						Deduction for complete superstructure <u>39.00</u>
" overhang ...						Percentage covered $\frac{S}{L} = 50.62\%$
Bridge enclosed ...	105.33	105.33	7'-6"		105.33	" " $\frac{S_1}{L} = 50.32\%$
" overhang aft ...	3.00	2.25			2.25	" " $\frac{E}{L} = 50.32\%$
" overhang forward36	.15			.15	Percentage from Table, Line A. (corrected for absence of forecastle (if required))
Forecastle enclosed <u>open</u> ...	35.00	35.00	8'-0"		35.00	Percentage from Table, Line B. (corrected for absence of forecastle (if required)) <u>36.32%</u>
" overhang ...						Interpolation for bridge less than 2L (if required)
Trunk aft ...						Deduction = <u>39.00 x .3632 = - 14.16"</u>
" forward ...						
Tonnage opening aft ...						
" forward ...						
Total ...	179.68	178.63			178.63	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	45.50	1		45.50	48.00	48.00	1		48.00	Mean actual sheer aft = Deficient > 75% standard
1/8 L from A.P. ...	20.25	4		81.00	19.35	19.35	4		77.40	Mean actual sheer forward = Excess ✓
3/8 L " ...	5.00	2		10.00	4.84	4.84	2		9.68	Mean standard sheer forward
Amidships ...	✓	4		0.0	✓	✓	4		✓	Length of enclosed superstructure forward of amidships = > .1L
5/8 L from F.P. ...	10.61	2		21.22	10.66	10.66	2		21.32	" " aft of " = > .1L
7/8 L " ...	40.50	4		162.00	42.66	42.66	4		170.64	
F.P. ...	91.00	1		91.00	97.50	97.50	1		97.50	
Total ...	409.5			409.52					424.54	

$$\text{Correction} = \frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{15.02}{18} \left(.75 - \frac{2531}{4969} \right) = -.41'$$

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.

Ft.
Depth to Freeboard Deck =
Summer freeboard =
Moulded draught (d) =

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches =

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. ...

57.95

63.45

5.57

14.16

4.1

.07

5.57 14.16 - 9.07

Summer Freeboard = 54.38

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

Tropical Fresh Water Line above Centre of Disc ...

Fresh Water Line " " ...

Tropical Line " " ...

Winter Line below " " ...

Winter North Atlantic Line " " ...

Tropical Fresh Water Freeboard ...

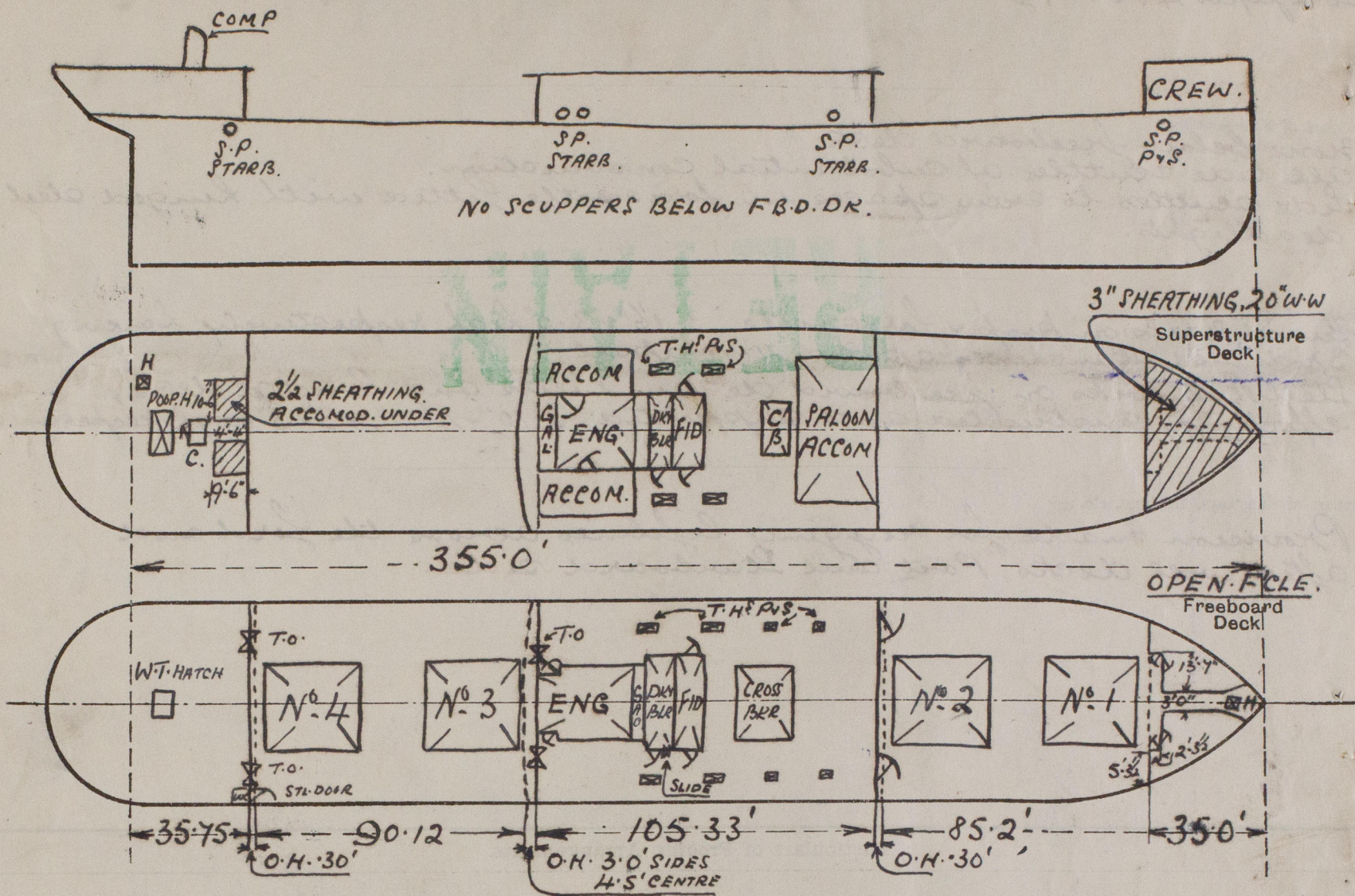
Fresh Water " ...

Tropical " ...

Winter " ...

Winter North Atlantic " ...

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:—



Particulars of Small Hatches.

FREEBOARD DECK.

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

FORWARD - Fore Peak Hatch, 4'-6" x 3'-5 1/2", Coam 1 1/2" x 30, keel 2 1/4", cover WP 2 5/8", 10 cleats, 1 tarp.
BRIDGE TWIN DECK T.H. 2 PVS - 8'-10" x 3'-10", " 11" x 3 1/2" x 60 BA, " 2 1/2", " 2 1/2", 14 " 1 " "
" 1 PVS - 2'-6 1/2" x 2'-0", " 11" x 3 1/2" x 60 BA, " 2 1/2", " 2 1/2", 8 " 1 " "
" 1 PVS - 2'-11" x 2'-9", " 10" x 3 1/2" x 60 BA, " 2 1/2", " 2 1/2", 8 " 1 " "

SUPERSTRUCTURE DECK.

BRIDGE DECK T.H. 1 PVS - 9'-1" x 3'-6", " 11" x 3 1/2" x 60 BA, " 3", " 2 3/4", 23 SP, " 2 " "
" 1 PVS 8'-9" x 3'-6" " 11" x 3 1/2" x 60 BA, " 2 1/2", " 3" x 14 " 2 " "

POOP DECK. Small H - 3'-7" x 2'-11 1/2", " 11" x 3 1/2" x 60 BA, " 2 1/2", " 2 1/2", 8 " 2 " "
(no saddle hatch on sidley top)

Following particulars extracted from deadweight scale.

DRAFT.	DEADWEIGHT TONS.	TONS PER INCH AT L.D.
21'-6 1/2"	6300	36.5
21'-3"	6150	
20'-11 1/2"	6000.	

Vessel measured afloat.

Builder's name and yard number Craig, Taylor & Co. Ltd.

Names of sister ships ☒

Owners B. G. Mavros & S. N. Mendrimos.

Fee £ 23 : 16 : 0
HOLIDAY 2 : 2 : 0
1/2 FEE
STAMPS 10 : 0
TELEGRAM 5 : 0

Received by me 15/12/33 WR.



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