

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD. No 13027.

 Index. No. **21142**
 (For London Office only.)

Computation of Freeboard for Steamer, ~~Sailing Ship, Tanker~~
 having **POOP, BR, & F.CLE.**

Port of Survey **AVONMOUTH.**

Date of Survey **14-2-34.**

Name of Surveyor **Robt. Cheetham.**

Particulars of Classification **+100A.1.**

(Type of Superstructures.)

Ship's Name **"ARIADNE PANDELIS."** Nationality and Port of Registry **GREEK. ✓ PIRAEUS.** Official Number **256.** Gross Tonnage **4445.** Date of Build **1910. ✓ 8. Mo.**

Moulded Dimensions: Length **373.2.** Breadth **51.16.** Depth **28.75.**
 Moulded displacement at moulded draught = 85 per cent. of moulded depth **10568** tons
 Coefficient of fineness for use with Tables **.793.**

Depth for Freeboard (D) **28.75.**
 Stringer plate **(.50")**
 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓
 Depth for Freeboard (D) = **28.79.**

Depth correction
 (a) Where D is greater than Table depth
 (D-Table depth) R = $(28.79 - 24.88) 2.871$
 $3.91 = + 11.22"$ ✓
 (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) **51.16**
 Standard Round of Beam = $\frac{B \times 12}{50} = 12.28"$ ✓
 Ship's Round of Beam = **12"**
 Difference **.28" deficient**
 Restricted to
 Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.28}{4} \times .4029 = +.03"$ ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	25.12	✓ 25.12	7.5	✓	25.12
" overhang ...	.29	✓ .14			.14
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed...	159.37	✓ 159.37	7.0	7.0	154.27
" overhang aft ...	.29	✓ .22		7.232	.21
" overhang forward	.29	✓ .14		7.21	.14
F'cle enclosed <i>open</i> ...	38.00	✓ 37.86	7.0 + 2.5	7.232	37.74
" overhang ...	.41		W. SHING		
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward					
Total ...	223.77	222.85			217.62

Standard Height of Superstructure **7.232** ✓

" " R.Q.D. ✓

Deduction for complete superstructure **40.21** ✓Percentage covered $\frac{S}{L} = 59.96\%$ ✓" " $\frac{S_1}{L} = 59.71\%$ ✓" " $\frac{E}{L} = 58.32\%$ ✓

Percentage from Table, Line A. ✓

(corrected for absence of forecastle (if required))

Percentage from Table, Line B.

(corrected for absence of forecastle (if required)) **44.32%**

Interpolation for bridge less than 2L (if required)

Deduction = $40.21 \times .4432 = - 17.82"$ ✓

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	47.32	✓ 1		47.32	51.50	51.50	1		51.50
$\frac{1}{4}L$ from A.P. ...	21.05	4		84.20	21.13	21.13	4		84.52
$\frac{2}{4}L$ " ...	5.20	2		10.40	5.28	5.28	2		10.56
Amidships ...	✓	4		-			4		✓
$\frac{3}{4}L$ from F.P. ...	10.41	2		20.82	11.85	11.85	2		23.70
$\frac{1}{4}L$ " ...	42.11	4		168.44	47.40	47.40	4		189.60
F.P. ...	94.64	1		94.64	108.00	108.00	1		108.00
Total ...	425.88			425.82					467.88

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{42.06}{18} \left(.75 - \frac{.2998}{2} \right) = - 1.05"$

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 = **28.79**Summer freeboard = **5.08**Moulded draught (d) = **23.71**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **5.93 = 6"**

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

 $\frac{193 + 68}{136} = \frac{1473}{1360}$ Depth Correction ... **11.22** ✓Deduction for superstructures ... **17.82** ✓Sheer correction ... **1.05** ✓Round of Beam correction ... **.03** ✓

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

11.25 **18.87** **- 7.62** ✓Summer Freeboard = **61.01** ✓SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~ Steel, Deck:—Existing freeboard as read from bench **5'-1" = 1549 mm**more favourable **4'-2" = 1270 "**the those computed **4'-7" = 1397 "**under the **4'-8" = 1422 "**convention **5'-6" = 1676 "**Tropical Fresh Water Line above Centre of Disc ... **.11" = 279**Fresh Water Line " " ... **.6" = 152**Tropical Line " " ... **.5" = 127**Winter Line below " " ... **.5" = 127**Winter North Atlantic Line " " ... **X. ✓**Tropical Fresh Water Freeboard ... **4'-2" = 1270 "**Fresh Water " " ... **4'-7" = 1397 "**Tropical " " ... **4'-8" = 1422 "**Winter " " ... **5'-6" = 1676 "**Winter North Atlantic " " ... **X. ✓**

Adrienne Pandell

17 FEB 1962

Particulars of Scuppers and Sanitary Discharge Pipes — In Fore Well. 3. Scuppers P.+S. 1. Port. Sk. Ang. ✓
 " After " 4. " " " " ✓
 " Bridge. 3. " " " " plugged at inner ends. ✓
 Soil pipe P.+S. from 3rd. W.Cs. no V.S.Vs.
 " 1st. " Cabin. W.C. " " V.
 " Port " Other. " " " " ✓

17 FEB

In Grop Hole. sides. Deadlights fitted. ✓
all scuttles of substantial construction. ✓

On Pop. Sides and end. 3-5 high, 2 rods, Stanchions 5-4 apart.
" Febr. Br. " " ends. 3-3 " " " " " "

Damaged rails and Stanchions on T. ele. to repair

Steel bulwarks in Wells and on Br. abreast Accord? efficiently constructed & supported. ✓

Suitable provision made for rigging lifeboats which are available for use in all parts of the vessel which might have to be used by the crew in the event of an emergency.

Particulars of fiddley, funnel and ventilator coamings :—

Stokehold gratings covered by strong steel lined covers. ✓
 Fiddle, funnel and Ventilator coverings in efficient condition. ✓
 Eng. Skylight of steel strongly constructed. ✓

~~To be dealt with:—~~

Washed Eng. Skylight Slabs
Stokehold Grating Cover. Port. wasted
1. Ventilating Scuffle Coaming and Cover broken on casing top Skel.
1. hinged Cover on Skel. Pole. ~~Frame~~ top wasted.

Do repairs

~~Do review~~

Particulars of Flush Bunker Scuttles:—

Particulars of Companionways :—

None

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

On Fele Dr. 2 Vents. 15" dia. Coamings 30" x 40 1/2 hold.

In Forward Well 2. " " " " 36 " " " "

On 31. 12. 54. " " " " " " ✓ 30 x 37 " " " "

2. 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80 82 84 86 88 90 92 94 96 98 100

2.	12	11	35
2.	15	11	30

2. " 24 " " " " 40 " "

In Apt. Well. 1 Vent. 21 dia. 36" x 20 Coaming. To Renew.

Vent. Crannings Constructed in
accordance with rules, and Coango.
Closed with wood plugs & canvas covers.

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

on Fore. Dr. 1. W.L. air pipe 2 1/2" dia. Flush, Wood Plug. F.P.T.

Fine Well. " " " " "
14 $\frac{1}{2}$ " diameter

W.Bot. Janette

all 15000 1 " " " " " 14 1/2 months " " "

after Well. 1. " " " " " 14 " " " " "

" " 1. " " " " " Flush Screw Cap ✓ " " "

on Prop. 1. " " " " " " person, screw cap. ✓
1" to month. A.P.T.

No closing argument

Efficient means
of closing provided.

Particulars of Gangway Cargo and Coaling Ports :—

None

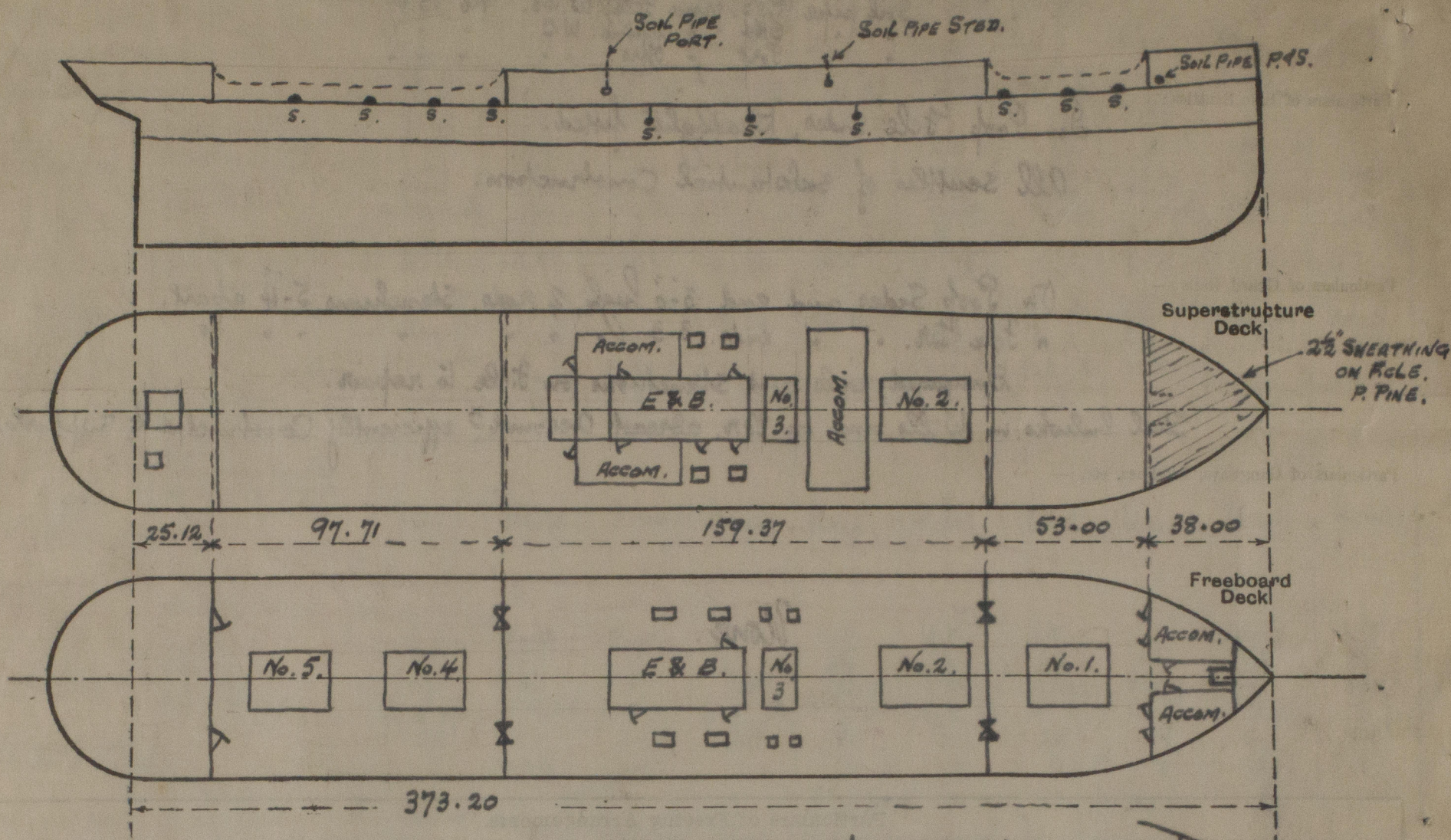
Particulars of Closing Appliances (state if capable of being manipulated from both sides).

Poop Bulkhead	...	...	(Port. 2 1/2' hinged wood door. ✓) (Star. 2' hinged wood door. ✓) <u>not worked both sides.</u> ✓ <u>worked both sides.</u>
Raised Quarter Deck Bulkhead	...	...
Bridge, After Bulkhead	...	...	2 1/2' Weather boards full height, in rivet channels. ✓
Bridge, Forward Bulkhead	...	...	Bolted Steel plates. Bolts 6" apart cros. 1/2" plating and 1/2" plating. ✓
Forecastle Bulkhead	...	Open	Hinged Steel doors. Worked both sides, except P. 4's outer doors to W. C. 5's. ✓
Exposed Machinery Casings on Freeboard or Raised Quarter Decks	...	...
Exposed Machinery Casings on Superstructure Decks	...	...	Hinged steel doors. Worked both sides. Locks and handles to repair. ✓
Machinery Casings within Superstructures not fitted with Class I Closing Appliances	...	...	Steel hinged doors. Not worked both sides. ✓ Opening in casing P. 5's in way of Coal shoot. No doors. ✓
Deckhouses on Flush Deck Ships	...	...

✓ Opening in Casing P.K. in way
of Coal shoot. *bedded plane with 6 exposed*
holes

W512-0372(2/2)

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:—



Defective hatch covers to renew to freeboard dk.
and erection hatchways, and missing hatch
covers to renew as indicated in report.

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

On Br. Dk.

2 hatchways P.S. (Total 4.)
 2. 5'-9" x 3'-0" 2. 4'-5" x 3'-0"
 Coamps. 15" x 35"
 Ath. Covers 2 1/2" W.P.
 Reels 2" Cleats 24" 2 Tarps.

In Fore Alleyway

1. hatchway 3'-0" x 4'-0"
 Coamps. 15" x 35"
 Ath. Covers 2 1/2" W.P.
 Reels 2" Cleats 24" 2 Tarps.

In Bridge

2 hatchways P.S. (4.)
 2. 6'-0" x 4'-0" 2. 4'-0" x 3'-0"
 Coamps. 12" x 35"
 Covers none Reels 2" + 1
 Cleats 24" no battens no Tarps.

In Bridge

2. Escape Scuttles P.S. (4.)
 20" x 30"
 Coamps. 10" x 3 1/2" x 60"
 9. 4. Covers W.P. 2 1/2"
 Reels 2" Cleats 12"
no Tarps no battens.

Vessel measured afloat discharging
 Cargo of grain.

NOTE:- It is requested that the Owners' assignment letter
 be forwarded to:—K.N. KYRIAKIDES. Esq.

42. DEVONSHIRE PLACE.
 NEWCASTLE-ON-TYNE. 2.

**PLEASE NOTE ITEMS
 UNDERLINED IN RED.**

Builder's name and yard number

J. L. Thompson & Sons.

Names of sister ships

Owners

Marmara S.S. Co. Ltd.

Fee £

12 : 15 : 0

Received by me

Exp. 0 - 18 - 9 Cff. Surveyor. (Paid from Bristol)

J. L. G.



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