

11 APR 1932

Index. No. **29966**  
(For London Office only.)

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Met No 7519.

51M

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having Shelter Deck with Yonage opening aft. Port of Survey MANCHESTER.

(Type of Superstructures.)

Date of Survey 8<sup>th</sup> April 1932.

Ship's Name "ITALIAN PRINCE" Nationality and Port of Registry BRITISH LONDON Official Number 146637 Gross Tonnage 3478 Date of Build 5.31

Name of Surveyor A.R. Gibbs.

Moulded Dimensions: Length 363.0' Breadth 52.0' Depth 34.75 to Upper Deck  
33.5' Shelter Deck

Moulded displacement at moulded draught = 85 per cent. of moulded depth 8334. tons

Coefficient of fineness for use with Tables .735.

Particulars of Classification +100A1 with freeboards

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	24.45	(a) Where D is greater than Table depth (D - Table depth) R =		Moulded Breadth (B)	52.00
Stringer plate	.04	(24.49 - 24.20) x 2.492 = + 1.65		Standard Round of Beam = $\frac{B \times 12}{50}$	12.48
Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Ship's Round of Beam	13
$T \left( \frac{L-S}{L} \right) =$				Difference	.52
Depth for Freeboard (D) =	24.49	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S_1}{L} \right)$	$\frac{.52}{4} \times .0053 = .013$

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...	31.25	31.25	8.45	✓	31.25
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...	324.45	324.45			324.45
„ overhang aft ...					
„ overhang forward ...					
F'cle enclosed ...	68.0		8.25		
„ overhang ...					
Trunk aft ...		1/2 diff.			
„ forward ...					
Tonnage opening aft ...	4.00	2.00			2.00
„ forward ...					
Total ...	363.00	361.00			361.00

Standard Height of Superstructure 4.13

„ „ R.Q.D. ✓

Deduction for complete superstructure 39.53

Percentage covered  $\frac{S}{L} = 100.00$

„ „  $\frac{S_1}{L} = 99.45$

„ „  $\frac{E}{L} = 99.45$

Percentage from Table, Line A. 99.32  
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. 99.32  
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = 39.53 x .9932 = 39.26

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	46.30	1		46.30	8.50	24.94	1		24.94
1/4 L from A.P. ...	20.60	4		82.40	1.04	12.43	4		49.72
1/2 L „ ...	5.09	2		10.18	0	3.04	2		6.14
Amidships ...	✓	4		✓	0	✓	4		✓
3/4 L from F.P. ...	10.18	2		20.36	0	3.54	2		4.14
1/4 L „ ...	41.21	4		164.84	2.47	14.44	4		57.76
F.P. ...	92.60	1		92.60	13.00	32.44	1		32.44
Total ...				416.68	+ 19.44				181.14

Mean actual sheer aft = Deficient

Mean standard sheer aft =

Mean actual sheer forward = Deficient

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = C.S.S.

„ „ aft of „ =

Actual Tween Stk. Height = 8.45

Standard „ „ „ = 4.13

1.62

12

19.44

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{235.54 \times (.75 - .50)}{18} = 3.24$

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 = 24.49

Summer freeboard = 2.34

Moulded draught (d) = 22.42

Deduction for Tropical freeboard and addition for

Winter freeboard =  $\frac{d}{4}$  inches = 5.60 = 5 1/2

Addition for Winter North Atlantic Freeboard (if required =

## Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ =

Tons per inch immersion at summer load water line

T =  $\frac{\Delta}{35.7}$

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

=

## TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction	1.65	✓
Deduction for superstructures	✓	39.26
Sheer correction	3.24	✓
Round of Beam correction	✓	✓
Correction for Thickness of Deck amidships	✓	✓
Other corrections, scantlings, etc.	✓	✓
	4.92	39.26

Summer Freeboard = 28.40

## 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 „ „ ...



# PARTICULARS OF PROTECTION TO OPENINGS, ETC.

HATCHWAYS ON FREEBOARD AND SUPERSTRUCTURE DECKS											
FREEBOARD DECK						SHELTER DECK					
Description of Hatchway	No. 1	No. 2	No. 3	No. 4	No. 5	No. 1	No. 2	No. 3	No. 4	No. 5	
Dimensions of Hatchway	24'3" x 14'3"	33'0" x 18'1"	24'9" x 18'1"	20'7" x 18'1"	24'9" x 18'1"	24'3" x 14'3"	33'0" x 18'1"	24'9" x 18'1"	33'0" x 18'1"	24'9" x 18'1"	
COAMINGS	Height above Deck	9'3 1/2" x 44L	9'3 1/2" x 5L	9'3 1/2" x 4L	9'3 1/2" x 44L	9'3 1/2" x 44L	31"	31"	31"	31"	
	Thickness	✓	✓	✓	✓	✓	50	46	50	46	
	Sides	✓	✓	✓	✓	✓	40	40	40	40	
	Stiffeners	✓	✓	✓	✓	✓	10'3 1/2" x 6L	10'3 1/2" x 6L	10'3 1/2" x 6L	10'3 1/2" x 6L	
	Brackets, Stays	✓	✓	✓	✓	✓	2'2 1/2" Rounds	2'2 1/2" Rounds	2'2 1/2" Rounds	2'2 1/2" Rounds	
HATCH BEAMS	Number	5	4	5	4	5	4	5	7	5	
	Spacing	4'0 1/2"	4'1 1/2"	4'1 1/2"	4'1 1/2"	4'0 1/2"	4'1 1/2"	4'1 1/2"	4'1 1/2"	4'1 1/2"	
	Scantling and Sketch	3" x 3" x 42"	3" x 3" x 44"	3" x 3" x 44"	3" x 3" x 44"	3" x 3" x 42"	3" x 3" x 44"	3" x 3" x 44"	3" x 3" x 44"	3" x 3" x 44"	
		15' x 30"	14' x 34"	SAME	AS NO. 2	15' x 30"	14' x 34"	SAME	AS NO. 2	14' x 34"	
	Bearing Surface	3"									
FORE AND AFTERS	Number										
	Spacing										
	Unsupported Lengths										
	Scantling and Sketch										
	Bearing Surface										
HATCH COVERS	Material	N.P.				N.P.					
	Thickness	3"				3"					
	How fitted	F & A				F & A					
	Bearing Surface	3"				3"					
		SAME AS NO. 1 HATCH				SAME AS NO. 1 HATCH					
Spacing of Cleats	24"					24"					
Number of Tarpaulins	None					3					

\*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? ☒

## ODD HATCHES

### Deep Tank Hatch

2'7" x 9'4"

10'3 1/2" L Coamings

45 O.T. Steel Covers

Bolt Spacing 8 1/2" apart

### Hatch on Forecastle

24'3" x 14'3"

Coaming 31" x 46 to 42"

7'3" x 40 L Stiffeners

2'2 1/2" Round Stays

5 Hatch Beams 12" x 30" Angles 3" x 3" x 42"

3" N.P. Covers F & A Bearing Surface 3"

Cleats 24" apart 3 Tarpaulins

### Trimming Hatches on Freeboard Deck

1'10" x 1'6" and 5'0" x 2'0"

9'3 1/2" L Coamings 2 1/2" Hinged Wood covers

6 Butterfly Huts and Bolts

Hatch from Fore 10' on Shelter Deck

5'0" x 2'0" Hinged Steel Door

12" Sill

### Tonnage Opening Hatch on Shelter Deck

4'0" x 18'1"

9" L Coaming

## Particulars of fiddle, funnel and ventilator coamings:—

Stokehold Gratings covered by Strong Steel Hinged Covers

Funnel & Kidley Ventilators in good condition

E. R. Skylight of Steel Strongly constructed

## Particulars of Flush Bunker Scuttles:—

NONE

## Particulars of Companionways:—

NONE

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

4 Ventilators on Shelter Deck 20" dia. x 36" x 35" hots

3 " " " 16" " x 36" x 35" " "

2 " " " 12" " x 30" x 35" " "

2 " " " 9" " x 36" x 3 " " "

10. G. N. " " " 6" " x 36" high " " "

4 " " " 6" " x 36" " " " "

Ventilators closed by wood plugs and canvas covers and constructed in accordance with Rules

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

N.I. Air pipes to Double Bottom Tanks etc. 3" dia x 28" minimum height

Situated on Shelter Deck

N.I. Air pipes to Peaks - After Peak: 31" high on Shelter Deck

Fore Peak: 31" " " Fore

Means of closing provided by wood plugs and canvas covers

## Particulars of Gangway Cargo and Coaling Ports:—

4 Hinged N.T. Cargo Doors (2 P. & 2 S) in Shelter Tr. Decks

5'10" x 3'10" opening

Door frame 6'4" angle

3 Horizontal Strongbacks 4' x 3 Channel

3 Strong Hinges on each door



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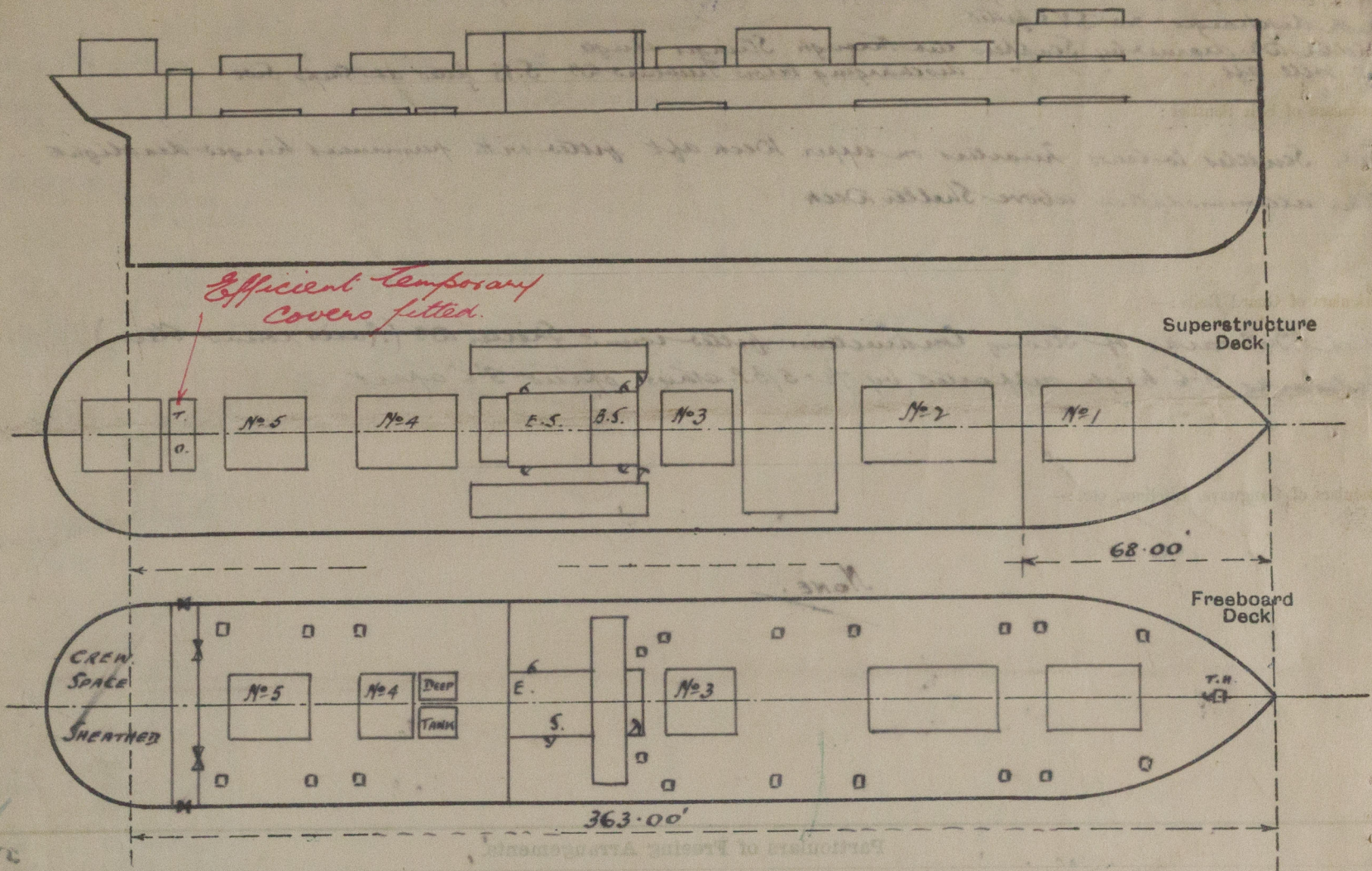






# Italian Prince

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:—

Builder's name and yard number

*Swire S.B.C. Ltd. No. 24*

Names of sister ships

*Launceston Prince Swire Prince*

Owners

*Prince Line Ltd.*

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Received by me



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