

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name SCINDIA 109.	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build 10-25-6	Port of Survey _____
Moulded Dimensions: Length 150 Breadth 29 Depth 27.5 4.25					Date of Survey _____
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature _____
Coefficient of fineness for use with Tables .68					Particulars of Classification _____

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 4.25 ... 27.5 Stringer plate ... 0.2 ... 0.2 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ 4.27 Depth for Freeboard (D) = 27.7	(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 = 1.154 10.00-27.7 = -17.7 27.7 If restricted by superstructures 6.61	Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = STANDARD Difference Restricted to Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) =$ NIL

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...					
„ overhang aft ...					
„ overhang forward ...					
F'cle enclosed ...					
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total ...					

Standard Height of Superstructure **6.00**

„ „ R.Q.D. **✓**

Deduction for complete superstructure **21.00**

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

„ „ $\frac{S_i}{L} =$

„ „ $\frac{E}{L} =$

Percentage from Table, Line A.
(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 = **-21.00**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...		1					1		
$\frac{1}{6}L$ from A.P. ...		4					4		
$\frac{2}{6}L$ „ ...		2					2		
Amidships ...		4					4		
$\frac{3}{6}L$ from F.P. ...		2					2		
$\frac{4}{6}L$ „ ...		4					4		
F.P. ...		1					1		
Total ...									

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ **-1.5**

If limited on account of midship superstructure.

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
L

„ „ aft of „ =

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 = **4.27**
Summer freeboard = **17**
Moulded draught (d) = **4.00**

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

+	6.71
-	21.00
-	1.5
-	27.61
-	30.86

Summer Freeboard = **15.50**

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

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

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

F/D. Draught = 8.95 ✓
 C.S.S. " = 4.05 ✓
4.90 ✓

Actual draught = 8.00'

71.5 Bulwark, F/D Area = 14.30 ✓
 C.S.S. " = 7.15 ✓

$7.15 \times 3.95 = 28.2425$
 $\frac{28.2425}{4.90} = 5.76$
7.15
 12.91 ✓

26.50 Bulwark, F/D Area = 9.15 ✓
 C.S.S. " = 4.57 ✓

$4.58 \times 3.95 = 18.091$
 $\frac{18.091}{4.90} = 3.69$
4.57
 8.26 ✓

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



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Foundation