

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <u>OK's</u>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <u>69.785</u> Breadth <u>9.750</u> Depth <u>4.575</u>					Date of Survey <u>24.10.50</u>
Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>2069 M<sup>3</sup> (Calculated)</u>					Surveyor's Signature
Coefficient of fineness for use with Tables <u>.782</u>					Particulars of Classification

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... .. <u>4.575</u>	(a) Where D is greater than Table depth (D-Table depth) R = <u>✓</u>	Moulded Breadth (B) <u>9.750</u> ✓
Stringer plate ... .. <u>10</u>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = <u>8.33(4.653-4.585) 17.622 = -10 m/m</u>	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{9.750 \times 12}{50} = 2.34 ✓$
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$	If restricted by superstructures <u>✓</u>	Ship's Round of Beam = <u>195</u> ✓
Depth for Freeboard (D) = <u>4.585</u>		Difference <u>NIL</u> ✓
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S}{L} \right) = \text{NIL}$ ✓

## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>i</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ... ..	16.310	16.310			16.310
„ overhang ... ..					
R.Q.D. enclosed ... ..					
„ overhang ... ..					
Bridge enclosed ... ..					
„ overhang aft ... ..					
„ overhang forward ... ..					
Fore enclosed ... ..	8.640	8.640			8.640
„ overhang ... ..					
Trunk aft (Pump Rm.) ... ..		1.528			1.528
„ forward ... ..		23.474			14.752
Tonnage opening aft ... ..					
„ forward ... ..					
Total ... ..	24.950	49.952			41.230

Standard Height of Superstructure 1.830 mms ✓

„ „ R.Q.D. ✓

Deduction for complete superstructure 735 mms ✓

Percentage covered  $\frac{S}{L} = 35.75$  ✓

„ „  $\frac{S_i}{L} = 71.58$  ✓

„ „  $\frac{E}{L} = 59.08$  ✓

Percentage from Table, Line A. 44.71 ✓ *Steamer*

(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 =  $735 \times .4471 = 329$  mms ✓

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ... ..	835	✓	1	835	820	✓	820	✓	820
$\frac{1}{2}$ L from A.P. ... ..	371	✓	4	1484	300	✓	300	✓	1200
$\frac{1}{4}$ L „ ... ..	93	✓	2	186	40	✓	40	✓	80
Amidships ... ..	—	✓	4	—	—	✓	—	✓	—
$\frac{3}{4}$ L from F.P. ... ..	186	✓	2	372	85	✓	85	✓	170
$\frac{1}{2}$ L „ ... ..	742	✓	4	2968	550	✓	550	✓	2200
F.P. ... ..	1671	✓	1	1671	1600	✓	1600	✓	1600
Total ... ..				7516					6070

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = } *Deficient*

„ „ aft of „ = } *Sheer*

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{1446}{18} (.75 - .1787) = +46$  mms.

If limited on account of midship superstructure. 571.3 ✓

## Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 4.585 ✓

Summer freeboard = 4.79 ✓

Moulded draught (d) = 4.106 ✓

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

782.68 ✓1.36 ✓

+

-

Depth Correction ... ..

Deduction for superstructures ... ..

Sheer correction ... ..

Round of Beam correction ... ..

Correction for Thickness of Deck amidships ... ..

Other corrections, scantlings, etc. ... ..

46 ✓ 339 ✓ - 293 ✓

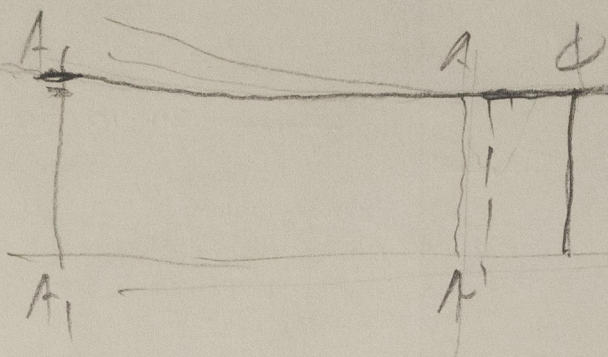
Summer Freeboard = 4.79 ✓SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~Wood~~ Steel, Deck :-

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	...



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.



Trade of ship \_\_\_\_\_

Names of sister ships \_\_\_\_\_

Builder's name and yard number \_\_\_\_\_

Owners \_\_\_\_\_

Fee £ \_\_\_\_\_



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Foundation