

W387-0141

Rpt. C.152

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

C.S.S. with Tonnage opening

Port of Survey

(Type of Superstructures.)

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

Date of Survey

25-11-32.

Name of Surveyor

Particulars of Classification

400A.1

Shellar Deck with Fbd.

Moulded Dimensions: Length 374.33 Breadth 51 Depth 26.12

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

Coefficient of fineness for use with Tables

.76 assumed.

tons

Depth for Freeboard (D)

Depth correction

Round of Beam correction

Moulded depth ... 26.12

Stringer plate04

Sheathing on exposed deck

 $T \left(\frac{L-S}{L} \right) =$

Depth for Freeboard (D) = 26.16

(a) Where D is greater than Table depth
(D - Table depth) R = $(26.16 - 24.96) 2.88 = + 3.46$ (b) Where D is less than Table depth (if allowed)
(Table depth - D) R =

If restricted by superstructures

Moulded Breadth (B)

51

Standard Round of Beam = $\frac{B \times 12}{50} = 12.24$

Ship's Round of Beam = 12.50

Difference

.26

Restricted to

Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.26}{4} (1 - .9946) =$

DEDUCTION FOR SUPERSTRUCTURES.

Standard Height of Superstructure

7.243

" " R.Q.D.

Deduction for complete superstructure

40.29

Percentage covered $\frac{S}{L} = 100$ " " $\frac{S_1}{L} = 99.46$ " " $\frac{E}{L} = 99.46$

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B.

99.33

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

C.S.S.

Deduction =

 $40.29 \times .9933 = -40.02$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
...	47.4	1		44.00	53.08	1	53.08
L from A.P. ...		4			23.62	4	94.48
L " ...		2			5.84	2	11.68
...		4				4	
F.P. ...		2			11.56	2	23.12
" ...		4			46.76	4	187.04
...	94.86	1		96.00	105.08	1	105.08
Total ...			446.87	446.87	446.87		474.48

Correction = $\frac{\text{Difference between sums of products}}{18} \left(75 - \frac{S}{2L} \right) = \frac{47.61}{18} (75 - .50) = - .66$

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 = Ft.

Summer freeboard =

Moulded draught (d) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta =$

Tons per inch immersion at summer load water line

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

Deduction for Tropical freeboard and addition for

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

Addition for Winter North Atlantic Freeboard (if required) =

TABULAR FREEBOARD corrected for Plus or Minus (if required)

Correction for coefficient

1.36 1.36

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

3.46 40.68

Summer Freeboard =

Tropical Fresh Water Line above Centre of Disc to top of Deck Line, Wood, Steel, Deck:

Fresh Water Line

Line

below

Line

Tropical Fresh Water Freeboard

Fresh Water

Tropical

Winter

Winter North Atlantic

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