

Rpt. C.11.

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

Computation of Freeboard for Steamer, Sailing Ship, Tanker					Port of Survey _____
having <u>P.B.F.</u>					Date of Survey _____
(Type of Superstructures.)					Name of Surveyor _____
Ship's Name <u>SOBORG</u>	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build	Particulars of Classification _____
Moulded Dimensions: Length Breadth Depth					
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					
Coefficient of fineness for use with Tables _____					

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth	(a) Where D is greater than Table depth (D-Table depth) R = <u>+5.82</u>	Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$
Stringer plate	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Ship's Round of Beam =
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$		Difference
Depth for Freeboard (D) = <u>21.37</u>	If restricted by superstructures	Restricted to
		Correction = $\frac{\text{Diff}^o}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <u>- .06</u>

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure _____
„ overhang						„ „ R.Q.D. _____
R.Q.D. enclosed						Deduction for complete superstructure _____
„ overhang						Percentage covered $\frac{S}{L} =$
Bridge enclosed... ..						„ „ $\frac{S_1}{L} =$
„ overhang aft						„ „ $\frac{E}{L} =$ <u>46.77</u>
„ overhang forward						Percentage from Table, Line A.
F'cle enclosed						(corrected for absence of forecastle (if required)) <u>67.23 ✓</u>
„ overhang						Percentage from Table, Line B.
Trunk aft						(corrected for absence of forecastle (if required))
„ forward						Interpolation for bridge less than 2L (if required) ✓
Tonnage opening aft ...						Deduction = <u>34 x .6723 = - 22.86</u>
„ „ forward						
Total						

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P.		1					1			Mean actual sheer aft =
1/8 L from A.P. ...		4					4			Mean standard sheer aft =
2/8 L „		2					2			Mean actual sheer forward =
Amidships		4					4			Mean standard sheer forward =
3/8 L from F.P. ...		2					2			Length of enclosed superstructure forward of amidships =
1/8 L „		4					4			„ „ aft of „ =
F.P.		1					1			
Total										

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

- 1.12

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 = 21.37 ✓
Summer freeboard = 1.97 ✓
Moulded draught (d) = 19.40 ✓

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = 4.85 ✓

Addition for Winter North Atlantic Freeboard required = $\frac{2}{3} =$ 6.47 ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta =$ 4940
Tons per inch immersion at summer load water line
 $T =$ 23.4
Deduction = $\frac{\Delta}{40T}$ inches = 5.28

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction	<u>5.82</u>	
Deduction for superstructures		<u>22.86</u>
Sheer correction		<u>1.12</u>
Round of Beam correction		<u>.06</u>
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	<u>5.82</u>	<u>21.04</u>
Summer Freeboard =	<u>23.61</u>	

41.83 ✓

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

	Timber	21.69" = 551 mm	16.84" = 428 "	16.41" = 417 "	5.09" = 129 "	6.61" = 168 "	11.56" = 293 "
Tropical Fresh Water Line above Centre of Disc							
Fresh Water Line							
Tropical Line							
Winter Line							
Winter North Atlantic Line							
Summer							

23.61 = 600 mm

Tropical Fresh Water Freeboard ...	<u>13.48</u>	<u>.342</u>
Fresh Water	<u>18.33</u>	<u>.465</u>
Tropical	<u>18.76</u>	<u>.476</u>
Winter	<u>30.08</u>	<u>.764</u>
Winter North Atlantic	<u>41.78</u>	<u>1.061</u>

As assigned
by Danish
Authorities

1m,6,32.

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

Timber

Tropical Fresh Water Line above Centre of Disc

Fresh Water Line

Tropical Line

Winter Line

Winter North Atlantic Line

below above

below

Summer

above

560 22"

436 17 1/4"

433 17"

145 5 3/4"

152 5 (20.7.40)

309 12 1/4"

Tropical Fresh Water Freeboard

Fresh Water

Tropical

Winter

Winter North Atlantic

1'-11 1/2"

1'-1 3/4"

1'-6 1/2"

1'-6 3/4"

2'-6"

(20.7.40) 3'-4 3/4"

600

349

473

476

764

1061

MARRING

16/7/40

Marking form

received 14/6/33

008061-008067-0113 2 1/2