

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having _____

(Type of Superstructures.) _____

Port of Survey _____

Date of Survey 19/4/32

Ship's Name	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
<u>Bruntsland</u>	<u>Shelbo</u>	<u>Schemate N° 2232</u>		

Name of Surveyor _____

Particulars of Classification _____

Moulded Dimensions: Length 235.5 Breadth 37.83 Depth 18.5

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

Coefficient of fineness for use with Tables Assume .78

Depth for Freeboard (D)	Depth correction	Round of Beam correction
Moulded depth <u>18.52</u>	(a) Where D is greater than Table depth (D - Table depth) R =	Moulded Breadth (B)
Tringer plate <u>.04</u>	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$
Heating on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam =
Depth for Freeboard (D) = <u>18.54</u>		Difference
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) =$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	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					

32% covered

Standard Height of Superstructure _____

„ „ R.Q.D. _____

Deduction for complete superstructure _____

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

„ „ $\frac{S_1}{L} =$

„ „ $\frac{E}{L} =$ 31.91

Percentage from Table, Line A. 16.62
(corrected for absence of forecastle (if required))

Percentage from Table, Line B. 20.62
(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = 29.55 x 16.62 = 4.91

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		
$\frac{2}{6}L$ from F.P.		2					2		
$\frac{1}{6}L$ „		4					4		
F.P.		1					1		
Total									

Standard assumed

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

„ „ aft of „ =

Nil

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

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p style="text-align: right;">Ft.</p> <p>Depth to Freeboard Deck = _____</p> <p>Summer freeboard = _____</p> <p>Moulded draught (d) = _____</p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = _____</p> <p>Addition for Winter North Atlantic Freeboard (if required) = _____</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>$\Delta =$ _____</p> <p>Tons per inch immersion at summer load water line</p> <p>T = _____</p> <p>Deduction = $\frac{\Delta}{40T}$ inches = _____</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient $\frac{.78 + .68}{1.36} =$ _____</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">+</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">Depth Correction</td><td style="text-align: center;">5.14</td></tr> <tr><td style="text-align: center;">Deduction for superstructures</td><td style="text-align: center;">- 4.91</td></tr> <tr><td style="text-align: center;">Sheer correction</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">Round of Beam correction</td><td style="text-align: center;">.03</td></tr> <tr><td style="text-align: center;">Correction for Thickness of Deck amidships</td><td style="text-align: center;">48.00</td></tr> <tr><td style="text-align: center;">Other corrections, scantlings, etc.</td><td style="text-align: center;">-</td></tr> <tr><td style="text-align: center;">Summer Freeboard =</td><td style="text-align: center;">79.92</td></tr> </table> <p style="text-align: right; font-size: 1.5em;">29.49 31.66</p>	+	-	Depth Correction	5.14	Deduction for superstructures	- 4.91	Sheer correction	-	Round of Beam correction03	Correction for Thickness of Deck amidships	48.00	Other corrections, scantlings, etc.	-	Summer Freeboard =	79.92
+	-																	
Depth Correction	5.14																	
Deduction for superstructures	- 4.91																	
Sheer correction	-																	
Round of Beam correction03																	
Correction for Thickness of Deck amidships	48.00																	
Other corrections, scantlings, etc.	-																	
Summer Freeboard =	79.92																	

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 „ „

© Lloyd's Register Foundation

2020

18.52

R.O.D. 4.00

22.54

0.66

13.88