

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

 Index No. _____
 (For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having 40% erecting standard sheet
round of beam.

(Type of Superstructures.)

Ship's Name <u>Odessa No. 57.58</u>	Nationality and Port of Registry	Official Number	Gross Tonnage	Date of Build
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Moulded Dimensions: Length 480 Breadth 65.25 Depth 35.92

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

Coefficient of fineness for use with Tables .794

Port of Survey _____

Date of Survey _____

Name of Surveyor _____

Particulars of Classification _____

Depth for Freeboard (D) Moulded depth <u>35.00</u> Stringer plate <u>1.07</u> Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <u>35.07</u>	Depth correction (a) Where D is greater than Table depth (D-Table depth) R = $(35.07 - 32.00) 3.07 = +9.21$ ✓ (b) Where D is less than Table depth (if allowed) (Table depth-D) R = ✓ If restricted by superstructures ✓	Round of Beam correction Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = <u>Standard</u> Difference Restricted to Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) =$ <u>Nil</u>
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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					

40% erecting

Standard Height of Superstructure 7.50 ✓

„ „ R.Q.D. ✓

Deduction for complete superstructure 42 ✓

Percentage covered $\frac{S}{L} =$
 $\frac{S_1}{L} =$ } 40% ✓
 $\frac{E}{L} =$

Percentage from Table, Line A. 23.50%
 (corrected for absence of forecastle (if required))

Percentage from Table, Line B. 27.50%
 (corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required) 25.50%

Deduction = 42 x .255 = 10.71 ✓

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

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

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 = 35.07 ✓
 Summer freeboard = 8.58 ✓
 Moulded draught (d) = 26.49 ✓

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	<u>9.21</u> ✓	
Deduction for superstructures		<u>10.71</u> ✓
Sheer correction		
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	<u>9.21</u>	<u>10.71</u>
		<u>- 1.50</u>
		Summer Freeboard = <u>102.88</u> ✓

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 „ „	

Equivalent Mo. Depth = 35.0

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