

Timber Deck Cargoes **W N A**

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. **23739**
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker					
having _____					
(Type of Superstructures.)					
Ship's Name GUNDBORG SEGRELL	Nationality and Port of Registry Sweden Stockholm Kalmar	Official Number 7277	Gross Tonnage 1435	Date of Build 1914	Port of Survey Göteborg
Moulded Dimensions: Length _____ Breadth _____ Depth _____					Date of Survey Apr. 1932
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Name of Surveyor _____
Coefficient of fineness for use with Tables _____					Particulars of Classification 100A1

Depth for Freeboard (D) Moulded depth Stringer plate Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 18.04	Depth correction (a) Where D is greater than Table depth (D-Table depth) R = + 3.45 (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 = _____ Difference _____ Restricted to _____ Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ - .03
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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 30.28
„ overhang						Percentage covered $\frac{S}{L} =$ _____
Bridge enclosed						„ „ $\frac{S_1}{L} =$ 1
„ overhang aft						„ „ $\frac{E}{L} =$ 68.30
„ overhang forward						Percentage from Table, Line A. 80.48
„ overhang forward						(corrected for absence of forecastle (if required))
Trunk aft						Percentage from Table, Line B.
„ forward						(corrected for absence of forecastle (if required))
Tonnage opening aft						Interpolation for bridge less than 2L (if required)
„ „ forward						Deduction = 80.48 × 30.28 = - 24.37
Total						

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.		1					1		
$\frac{1}{8}L$ from A.P.		4					4		
$\frac{3}{8}L$ „		2					2		
Amidships		4					4		
$\frac{3}{8}L$ from F.P.		2					2		
$\frac{1}{8}L$ „		4					4		
F.P.		1					1		
Total									

Mean actual sheer aft = _____
Mean standard sheer aft = _____

Mean actual sheer forward = _____
Mean standard sheer forward = _____

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ **-1.39**

Length of enclosed superstructure forward of amidships = _____
„ „ aft of „ = _____

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 $1\frac{1}{2}$ ins. per 100 ft.**Deduction for Tropical Freeboard.****Addition for Winter and Winter North Atlantic Freeboard.**

Depth to Freeboard Deck = **18.04** Ft.
Summer freeboard = **.85**
Moulded draught (d) = **17.19**

Deduction for Tropical freeboard and addition forWinter freeboard = $\frac{d}{4}$ inches = **4.30 = 109 mm****Addition for Winter North Atlantic Freeboard (if**required = $\frac{d}{3} = 5.73 = 146 \text{ mm}$ **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 = $\frac{\Delta}{40T}$ inches= **109 mm****TABULAR FREEBOARD corrected for Flush Deck (if required)**

Correction for coefficient

	+	-
Depth Correction	3.45	
Deduction for superstructures		24.37
Sheer correction		1.39
Round of Beam correction03
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	3.45	25.79
Summer Freeboard =	10.24	

TIMBER SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—**10.24" = 260 mm**

TIMBER Tropical Fresh Water Line above Centre of Disc ... **364 mm**
„ Fresh Water Line „ „ ... **255 mm**
„ Tropical Line „ „ ... **255 mm**
„ Winter Line below „ „ ... **0**
„ Winter North Atlantic Line „ „ ... **168 mm**

TIMBER Tropical Fresh Water Freeboard ... **42 mm**
„ Fresh Water „ „ ... **151 mm**
„ Tropical „ „ ... **151 mm**
„ Winter „ „ ... **406 mm**
„ Winter North Atlantic „ „ ... **574 mm**