

T I M B E R

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. **23849**
(For London Office only.)KOMM. KOLL. FARTYGSINSPEKTÖREN
BYRÅN

29 JUN. 1932

Till D.N. 953A

Computation of Freeboard for Steamer, Sailing Ship, Tanker

having

Port. Bridge & Yarn cable

Port of Survey

Date of Survey **June 20th 1932**

Name of Surveyor

Particulars of Classification

Ship's Name

Nationality and Port of Registry

Official Number

Gross Tonnage

Date of Build

JOHAN SÄNNE**Swedish
Nadderö****5,629****1,368****1914/9**

Moulded Dimensions: Length

Breadth

Depth

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

Coefficient of fineness for use with Tables **777****Depth for Freeboard (D)**

Moulded depth

Stringer plate

Sheathing on exposed deck

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

Depth for Freeboard (D) =

18.62**Depth correction**(a) Where D is greater than Table depth
(D - Table depth) R =**+ 5.35**(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)

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

$$\text{Ship's Round of Beam} =$$

Difference

Restricted to

$$\text{Correction} = \frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \mathbf{-0.07}$$

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	107.75	99.98			99.98

Standard Height of Superstructure **6.00**

" " R.Q.D.

Deduction for complete superstructure **29.49**

$$\text{Percentage covered } \frac{S}{L} = \mathbf{45.87}$$

$$\frac{S_1}{L} = \mathbf{42.57}$$

$$\frac{E}{L} = \mathbf{42.57}$$

Percentage from Table, Line A.

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. **Timber 64.60**

(corrected for absence of forecastle (if required))

Interpolation for bridge less than 2L (if required)

Deduction = **19.05****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		
$\frac{3}{6}L$ from F.P.		2					2		
$\frac{4}{6}L$ "		4					4		
F.P.		1					1		
Total									

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

If limited on account of midship superstructure.

- 19If 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.**

$$\text{Depth to Freeboard Deck} = \mathbf{18.62}$$

$$\text{Summer freeboard} = \mathbf{1.46}$$

$$\text{Moulded draught (d)} = \mathbf{17.16}$$

Deduction for Tropical freeboard and addition for

$$\text{Water freeboard} = \frac{d}{4} \text{ inches} = \mathbf{4.29} \text{ } 109^{\circ}$$

Addition for Winter North Atlantic Freeboard (if required) = **12 = 145****Deduction for Fresh Water.**

Displacement in salt water at summer load water line

$$\Delta = \mathbf{3485}$$

Tons per inch immersion at summer load water line

$$T = \mathbf{17.73}$$

$$\text{Deduction} = \frac{\Delta}{40T} \text{ inches}$$

$$= \mathbf{4.91}$$

$$= \mathbf{125}$$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

$$\text{Depth Correction} \dots \dots \dots \mathbf{5.35}$$

$$\text{Deduction for superstructures} \dots \dots \dots \mathbf{19.05}$$

$$\text{Sheer correction} \dots \dots \dots \mathbf{.19}$$

$$\text{Round of Beam correction} \dots \dots \dots \mathbf{.07}$$

$$\text{Correction for Thickness of Deck amidships} \dots \dots \dots$$

$$\text{Other corrections, scantlings, etc.} \dots \dots \dots$$

$$\mathbf{5.35} \quad \mathbf{19.31} \quad \mathbf{13.95}$$

$$\text{Summer Freeboard} = \mathbf{17.2}$$

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

Tropical Fresh Water Line above Centre of Disc ...	475	Tropical Fresh Water Freeboard ...	
Fresh Water Line " " ...	366	" Fresh Water " " ...	
Tropical Line " " ...	350	" Tropical " " ...	
Winter Line " " ...	96	" Winter " " ...	
North Atlantic Line " " ...	175	" Winter North Atlantic " " ...	

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