

TIMBER DECK CARGOES

Rpt. C.11.

Lloyd's Register of Shipping. SURVEYS FOR FREEBOARD.

Index. No. **24255**
(For London Office only.)

Computation of Freeboard for Steamer, Sailing Ship, Tanker
having _____

(Type of Superstructures.) _____

Port of Survey **Göteborg**

Date of Survey **20th Mar**

Name of Surveyor _____

Particulars of Classification **+100A1**

Ship's Name **STURE**

Nationality and Port of Registry **Swedish Saffle**

Official Number **301**

Gross Tonnage **1915**

Date of Build _____

Moulded Dimensions: Length **121.95** Breadth **22.42** Depth **12.0**

Moulded displacement at moulded draught = 85 per cent. of moulded depth **617** tons

Coefficient of fineness for use with Tables **.774**

Depth for Freeboard (D)		Depth correction		Round of Beam correction	
Moulded depth	12.00	(a) Where D is greater than Table depth (D-Table depth) R =	+ 3.65	Moulded Breadth (B)	
Stringer plate	.02	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	=
Sheathing on exposed deck				Ship's Round of Beam	=
$T \left(\frac{L-S}{L} \right) =$				Difference	
Depth for Freeboard (D) =	12.02	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L_1} \right)$	= - .11

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 18.195
" overhang ...						Percentage covered $\frac{S}{L} =$
Bridge enclosed ...						" " $\frac{S_1}{L} =$
" overhang aft ...						" " $\frac{E}{L} =$ 26.20
" overhang forward						Percentage from Table, Line A.
P'le enclosed ...						(corrected for absence of forecastle (if required))
" overhang ...						Percentage from Table, Line B. Timber 48.16 ✓
Trunk aft ...						(corrected for absence of forecastle (if required))
" forward ...						Interpolation for bridge less than .2L (if required)
Tonnage opening aft ...						Deduction = - 8.76 ✓
" " 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 =
$\frac{1}{8}L$ from A.P. ...		4					4			Mean standard sheer aft =
$\frac{2}{8}L$ " ...		2					2			Mean actual sheer forward =
Amidships ...		4					4			Mean standard sheer forward =
$\frac{3}{8}L$ from F.P. ...		2					2			Length of enclosed superstructure forward of amidships =
$\frac{4}{8}L$ " ...		4					4			" " aft of " =
F.P. ...		1					1			
Total ...										

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

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 = **12.02** ✓
Summer freeboard = **.65** ✓
Moulded draught (d) = **11.37** ✓

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **2.84** = **72** ✓

Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3}$ = **3.79** = **96** ✓

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

72 ✓

TABULAR FREEBOARD corrected for Fresh Deck (if required)

Correction for coefficient

	+	-	
Depth Correction	3.65		
Deduction for superstructures		8.76	
Sheer correction			
Round of Beam correction		.11	
Correction for Thickness of Deck amidships			
Other corrections, scantlings, etc.			
	3.65	8.87	- 5.22
Summer Freeboard =			7.81

TIMBER SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:— **198** ✓

TIMBER Tropical Fresh Water Line above Centre of Disc ... **289** ✓

" Fresh Water Line " " ... **217** ✓

" Tropical Line " " ... **217** ✓

" Winter Line below ABOVE " " ... **49** ✓

" Winter North Atlantic Line " BELOW " " ... **137** ✓

" SUMMER ABOVE " " ... **145** ✓

TIMBER Tropical Fresh Water Freeboard ... **54** ✓

" Fresh Water " " ... **126** ✓

" Tropical " " ... **126** ✓

" Winter " " ... **294** ✓

" Winter North Atlantic " " ... **480** ✓

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MARKING FORM
RECEIVED
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7 APR 1933