

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name SVANO.	Official Number	Nationality and Port of Registry SWEDISH.	Gross Tonnage 1976.	Date of Build 1923-8.	Port of Survey EL SINORE.
Moulded Dimensions: Length 276.42' Breadth 42.0' Depth 20.42'					Date of Survey 8.10.51.
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature _____
Coefficient of fineness for use with Tables .75.					Particulars of Classification BS*

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth	(a) Where D is greater than Table depth (D—Table depth) R =	Moulded Breadth (B)
Stringer plate	+4.32"	Standard Round of Beam = $\frac{B \times 12}{50} =$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	(b) Where D is less than Table depth (if allowed) (Table depth—D) R =	Ship's Round of Beam =
Depth for Freeboard (D) = 20.46.	If restricted by superstructures	Difference
		Restricted to
		Correction = $\frac{\text{Diff}^c}{4} \times \left(1 - \frac{S_1}{L} \right) = -0.02.$

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	251.25.	232.44.			232.44.

Standard Height of Superstructure **6.26.**

" " R.Q.D. **✓**

Deduction for complete superstructure **33.64.**

Percentage covered $\frac{S}{L} = 90.89.$

" " $\frac{S_1}{L} =$

" " $\frac{E}{L} =$ } **84.08.**

Percentage from Table, Line A. **TIMBER.** **90.05.** ✓
(corrected for absence of forecastle (if required))

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

Interpolation for bridge less than 2L (if required) **✓**

Deduction = **33.64 × 90.05 = -30.29"** ✓

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.		1				1	
$\frac{1}{4}$ L from A.P.		4				4	
$\frac{2}{6}$ L "		2				2	
Amidships		4				4	
$\frac{2}{6}$ L from F.P.		2				2	
$\frac{1}{4}$ L "		4				4	
F.P.		1				1	
Total							

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = 4.19"$

If limited on account of midship superstructure.

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 " =

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **20.46.**

TIMBER. Summer freeboard = **1.17**

Moulded draught (d) = **19.29**

Deduction for **TIMBER** Tropical freeboard and addition for **TIMBER** Winter freeboard = $\frac{d}{4}$ inches = **4.82" = 122 m/m.**

Addition for Winter North Atlantic Freeboard (if required) = $\frac{d}{3} = 6.43" = 163 m/m.$

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 = **120 m/m.**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction	4.32	✓
Deduction for superstructures	✓	30.29
Sheer correction	1.19	✓
Round of Beam correction	✓	.02
Correction for Thickness of Deck amidships	✓	✓
Other corrections, scantlings, etc.	✓	✓
	4.51	30.31

Summer Freeboard = **14.06.**

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

TIMBER Tropical Fresh Water Line above Centre of Disc	325 m/m
" Fresh Water Line " "	203 "
" Tropical Line " "	305 "
" Winter Line below " "	80 "
" Winter North Atlantic Line " "	171 "

TIMBER Tropical Fresh Water Freeboard	357 m/m
" Fresh Water " "	115 m/m
" Tropical " "	237 m/m
" Winter " "	235 m/m
" Winter North Atlantic " "	520 m/m