

Lloyd's Register of Shipping. SURVEYS FOR FREEBOARD. (COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name: ORESUNDSVAERLET N° 126 Official Number: Nationality and Port of Registry: Gross Tonnage: Date of Build: Port of Survey: Date of Survey: 9-11-50. Surveyor's Signature: Particulars of Classification: CONTEMPLATED.

Moulded Dimensions: Length 152.40M Breadth 20.04M Depth 11.53M

Moulded displacement at moulded draught = 85 per cent. of moulded depth 23,500 tons

Coefficient of fineness for use with Tables: 778

DEPTH FOR FREEBOARD (D). Moulded depth 11.53 Stringer plate -0.021 Sheathing on exposed deck T(L-S)/L = Depth for Freeboard (D) = 11.551

DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = 8.33(11.551-10.160)30 = +348. (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) 20.04 Standard Round of Beam = B x 12 / 50 = 401 Ship's Round of Beam = 400 Difference Restricted to Correction = Diff x (1 - S/L) = NIL

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	33.385	33.385	2.36		33.385
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	11.370	11.370	2.36		11.370
" overhang aft	1.096	.822			.822
" overhang forward					
F'cle enclosed	18.560	18.560	2.285		18.560
" overhang	.850	.425			.425
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	65.261	64.562			64.562

Standard Height of Superstructure 2.29 R.Q.D. Deduction for complete superstructure 1067 Percentage covered S/L = 42.62 S₁/L = 42.37 E/L = Percentage from Table, Line A. TANKER (corrected for absence of forecastle (if required)) Percentage from Table, Line B. TANKER. 33.37 (corrected for absence of forecastle (if required)) Interpolation for bridge less than .2L (if required) Deduction = 1067 x .3337 = -356

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	1523	1	1523	1044	1044	1	1044
1/2 L from A.P.	677	4	2708	187	187	4	748
1/4 L	169	2	338	0	0	2	-
Amidships	0	4	-	0	0	4	-
1/4 L from F.P.	338	2	676	0	0	2	-
1/2 L	1353	4	5412	624	624	4	2496
F.P.	3047	1	3047	2603	2603	1	2603
Total			13704				6891

Correction = Difference between sums of products / 18 = 6813(-75 - 2141) = +203 If limited on account of midship superstructure. 18 5359

Mean actual sheer aft = deficient Mean standard sheer aft = deficient Mean actual sheer forward = deficient Mean standard sheer forward = deficient Length of enclosed superstructure forward of amidships = aft of = TANKER.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 11.551 Summer freeboard = 2.578 Moulded draught (d) = 8.974 Deduction for Tropical freeboard and addition for Winter freeboard = d inches = 187 Addition for Winter North Atlantic Freeboard (if required) = 187 + 127 = 314

Deduction for Fresh Water. Displacement in salt water at summer load water line Δ = Tons per inch immersion at summer load water line T = Deduction = Δ / 48 inches = 187

TANKER. TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient 778 + 68 = 1.458 / 1.36

	+	-
Depth Correction	348	
Deduction for superstructures		356
Sheer correction	203	
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
Summer Freeboard	551	356 + 195 = 2578

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

Tropical Fresh Water Line above Centre of Disc	374	Tropical Fresh Water Freeboard	2578
Fresh Water Line	187	Fresh Water	2391
Tropical Line	187	Tropical	2391
Winter Line below	187	Winter	2765
Winter North Atlantic Line	314	Winter North Atlantic	2892

115 126

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

CURVED POOP FRONT

$$\begin{array}{r} \text{EQUIV. L} = 33.965 \checkmark \\ - 32.225 \checkmark \\ \hline 1.740 \times \frac{2}{3} = 1.160 \\ \hline 32.225 \\ \hline 33.385 \checkmark \end{array}$$

3.480

CURVED BRIDGE FRONT. Set in 305' M ea. side. ✓

$$\begin{array}{r} \text{EQUIV. L} = 12.40 \\ - 10.39 \\ \hline 2.01 \times \frac{2}{3} = 1.34 \checkmark \\ \hline 10.39 \\ \hline 11.73 \times 19.43 = 11.37 \checkmark \\ \hline 20.04 \end{array}$$

$$\begin{array}{r} \text{OVER HANG. } 1.13 \times 19.43 = 1.096 \checkmark \\ \hline 20.04 \end{array}$$

Trade of ship _____

Names of sister ships _____

Builder's name and yard number _____

Owners _____

Fee £ _____



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Foundation