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 24/1/49
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 (For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name ERIKSBORG.	Official Number 7108	Nationality and Port of Registry SWEDISH. KIVIK.	Gross Tonnage 1461 (SWED)	Date of Build 1890 8 MS.	Port of Survey
Moulded Dimensions: Length 76.190M. Breadth 10.620 Depth 5.892.					Date of Survey 24.1.49.
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables .79.					Particulars of Classification +100 A1.

DEPTH FOR FREEBOARD (D).				
Moulded depth	5892
Stringer plate	13
Sheathing on exposed deck				
$T \left(\frac{L-S}{L} \right) =$				
Depth for Freeboard (D) = 5905				

DEPTH CORRECTION.	
(a) Where D is greater than Table depth (D-Table depth) R =	8.33(5905-5080) 19.24 = +132 m/ins.
(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)	10620 MS.
Standard Round of Beam = $\frac{B \times 12}{50}$	= 212 m/ins.
Ship's Round of Beam	= 150 "
Difference	62 m/ins
Restricted to	
Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L}\right)$	= $\frac{62}{4} \times .1142 = +2$ m/ins.

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	7550	7650	2280	✓	7550
" overhang					
R.Q.D. enclosed	19500	19500	1220	✓	19500
" overhang					
Bridge enclosed	33580	30220	2135	✓	30220
" overhang aft					
" overhang forward					
F'cle enclosed	10151	10151	2135	✓	10151
" overhang	129	65			65
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	70910	67486			67486

Standard Height of Superstructure	1830
" " R.Q.D.	1220
Deduction for complete superstructure	788
Percentage covered $\frac{S}{L} =$	93.08
" " $\frac{S_1}{L} =$	88.58
" " $\frac{E}{L} =$	
Percentage from Table, Line A.	85.94
(corrected for absence of fore-castle (if required))	
Percentage from Table, Line B.	
(corrected for absence of fore-castle (if required))	
Interpolation for bridge less than .2L (if required)	
Deduction =	788 x .8594 = 677 m/ins.

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	889	1	889	838	838	1	838
$\frac{1}{2}$ L from A.P.	395	4	1580	260	260	4	1040
$\frac{1}{2}$ L "	99	2	198	-51	-51	2	-102
Amidships	-	4	-	-	-	4	-
$\frac{1}{2}$ L from F.P.	197	2	394	305	248	2	496
$\frac{1}{2}$ L "	790	4	3160	952	866	4	3464
F.P.	1777	1	1777	2057	1909	1	1909
Total			7998				7645

Mean actual sheer aft = **Deficient 61.80%**
 Mean standard sheer aft =

Mean actual sheer forward = **Excess.**
 Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = **>.1L.**
 " " aft of " = **>.1L.**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{353}{18} (.75 - .4654) = +6 \text{ m/ins.}$
 If limited on account of midship superstructure. **2846** 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.

Ft.
 Depth to Freeboard Deck = **5905**
 Summer freeboard = **349**
 Moulded draught (d) = **5556**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{48}$ inches = **116 m/ins.**

Addition for Winter North Atlantic Freeboard (if required) = **116 + 51 = 167 m/ins**

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

= **116 m/ins.**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

820
886

Depth Correction ... **132**
 Deduction for superstructures ... **677**
 Sheer correction ... **6**
 Round of Beam correction ... **2**
 Correction for Thickness of Deck amidships ...
 Other corrections, scantlings, etc. ...

+	-
132	
-	677
6	
2	
-	
-	
140	677
	-537

Summer Freeboard = **349**

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

Tropical Fresh Water Line above Centre of Disc	232 m/ins	Tropical Fresh Water Freeboard	117 "
Fresh Water Line	116 "	Fresh Water	233 "
Tropical Line	116 "	Tropical	233 "
Winter Line below	116 "	Winter	465 "
Winter North Atlantic Line	167 "	Winter North Atlantic	516 "

Eriksborg.

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.

Lowcastle:

Length to bulkhead = 10280'

less $\frac{6300 \times 0.190}{9300}$ = $\frac{129}{10151}$ Chang. ' = Equivlt. lhd.

✓

Trade of ship _____

Names of sister ships _____

Builder's name and yard number _____

Owners _____

Fee £ _____



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Foundation