

*amended compn.
for closing lower sidescuttles.*

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received

Index No.

Govt. Copy

Owners C11

Ship's Name KARLOVAC.	Official Number	Nationality and Port of Registry	Gross Tonnage 191	Date of Build	Port of Survey SPLIT
Moulded Dimensions: Length 113.25 Breadth 22.96' Depth 11.00'					Date of Survey 29.6.55
Freeboard Length					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth 400 tons					Particulars of Classification +100 A1 <i>for service in the Adriatic.</i>
Coefficient of fineness for use with Tables .68 (actual .576)					

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	11.00	(a) Where D is greater than Table depth (D - Table depth) R = $(11.19 - 7.55) \cdot 0.871 = 3.174$		Moulded Breadth (B)	22.96
Stringer plate	.02	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Standard Round of Beam = $\frac{B \times 12}{50} =$	5.11
Wood Sheathing on exposed deck				Ship's Round of Beam =	5.51
$T \left(\frac{L-S}{L} \right) = 22 \times .7506$.17			Difference	Nil
Depth for Freeboard (D) =	11.19	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) =$	Nil

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	28.25	28.25	10.89	3.18 + .05	15.21
" overhang			7.50	.60	
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total	28.25				15.21

Standard Height of Superstructure	6.00
" " R.Q.D.	
Deduction for complete superstructure	17.33
Percentage covered $\frac{S}{L} =$	24.94
" " $\frac{S_1}{L} =$	
" " $\frac{E}{L} =$	13.43
Percentage from Table, Line A.	6.72
(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 = $17.33 \times .0672 =$	-1.16

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	21.33	1		21.33	9.45	9.45	1		9.45
$\frac{1}{2}L$ from A.P.	9.49	4		37.96	.63	.63	4		2.52
$\frac{3}{4}L$ "	2.31	2		4.70	-2.09	-2.09	2		4.18
Amidships	0	4		0	0	0	4		0
$\frac{3}{4}L$ from F.P.	4.69	2		9.38	5.75	4.69	2		9.38
$\frac{1}{2}L$ "	18.98	4		75.92	44.80	18.98	4		75.92
F.P.	42.65	1		42.65	53.18	42.65	1		42.65
Total				191.94					135.74

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{56.20}{18} (.75 - .1247) = +1.91$
 If limited on account of midship superstructure. If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck	=	11.24
Summer freeboard	=	3.69
Moulded draught (d)	=	7.55
Keel allowance	=	
Extreme draught	=	
Deduction for Tropical freeboard and addition for =		

Winter freeboard = $\frac{d}{4}$ inches = 2Addition for Winter North Atlantic Freeboard (if required) = *Not on*

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= $1\frac{1}{2}$ "

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction	3.17	
Deduction for superstructures		1.16
Sheer correction	1.95	
Round of Beam correction		
Correction for Thickness of Deck amidships	.60	
Other corrections, scantlings, etc.	26.36	
Summer Freeboard =	32.08	1.16

Summer Freeboard = 42.25

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

Tropical Fresh Water Line above Centre of Disc	Not assigned
Fresh Water Line	1 1/2" 38 m/m
Tropical Line	Not assigned
Winter Line	2" 51 m/m
Winter North Atlantic Line	Not assigned

Tropical Fresh Water Freeboard	Not assigned
Fresh Water	3' - 4 3/4" 1035"
Tropical	Not assigned
Winter	3' - 8 1/4" 1124"
Winter North Atlantic	Not assigned