

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received _____
 Index No. _____
 Govt. Copy _____
 Owners CII _____

Ship's Name KARLOVAC. BRDOGRADILISTE "SPLIT" YARD. NO. 126.	Official Number	Nationality and Port of Registry YUGO-SLAV. RIJEKA.	Gross Tonnage	Date of Build 1954	Port of Survey SPLIT
Moulded Dimensions: Length 113.25' Breadth 22.96' Depth 11.00'					Date of Survey 4.11.54
Freeboard Length TO CENTRE OF RUDDER STOCK.					Surveyor's Signature S. MATCEN.
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 400 tons					Particulars of Classification + 100 A1.
Coefficient of fineness for use with Tables .68 (ACTUAL .576)					FOR SERVICE IN THE ADRIATIC.

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 =		Moulded Breadth (B)	22.96'
Stringer plate	.02	(11.19 - 7.55) 0.871 = 3.14"		Standard Round of Beam = $\frac{B \times 12}{50}$	5.51"
Wood Sheathing on exposed deck 65 m/p.		(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam 140 m	6.51"
$T \left(\frac{L-S}{L} \right) = 22 \times .7506$.14			Difference	NIL
Depth for Freeboard (D) =	11.19	If restricted by superstructures	✓	Restricted to	
				Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right)$	NIL

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed						Standard Height of Superstructure 6.00'
" overhang						" " R.Q.D. ✓
R.Q.D. enclosed						Deduction for complete superstructure 14.33'
" overhang						Percentage covered $\frac{S}{L} = \left\{ \begin{array}{l} 24.94' \\ S_1 \\ L \end{array} \right.$
Bridge enclosed						" " $\frac{E}{L} = 13.43'$
" overhang aft						Percentage from Table, Line A. 6.72'
" overhang forward						(corrected for absence of forecastle (if required))
F'cle enclosed	28.25'	28.25'	1089/970	3.18 + .05 6.00	15.21'	Percentage from Table, Line B.
" overhang						(corrected for absence of forecastle (if required))
Trunk aft						Interpolation for bridge less than .2L (if required)
" forward						Deduction = 14.33' x .0672 = 1.16'
Tonnage opening aft						
" forward						
Total	28.25	28.25			15.21'	

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
$\frac{3}{8}$ L	2.35	2	4.70	-2.09	-2.09	2	-4.18
Amidships	0	4	0	0	0	4	0
$\frac{3}{8}$ L from F.P.	4.69	2	9.38	5.45	4.69	2	9.38
$\frac{1}{2}$ L	18.98	4	75.92	24.80	18.98	4	75.92
F.P.	42.65	1	42.65	63.18	42.65	1	42.65
Total			191.94				135.74

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{56.20}{18} \left(.75 - \frac{124.4}{244} \right) = + 1.95'$

If limited on account of midship superstructure.

Mean actual sheer aft = **DEFICIENT .5'**
 Mean standard sheer aft

Mean actual sheer forward = **EXCESS**
 Mean standard sheer forward

Length of enclosed superstructure forward of amidships = } **NIL**
 " " aft of " = }

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 = **1.89 = 2"**
 Addition for Winter North Atlantic Freeboard (if required) = **NOT ASSIGNED.**

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 241$
 Tons per inch immersion at summer load water line
 $T = 4.41$
 Deduction = $\frac{\Delta}{40 T}$ inches
 $= 1.54"$
 $= 1\frac{1}{2}"$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **NIL.**

	+	-	
Depth Correction	3.14	✓	
Deduction for superstructures	✓	1.16	
Sheer correction	✓	1.95	
Round of Beam correction	✓	✓	
Correction for Thickness of Deck amidships	✓	✓	
Other corrections, scantlings, etc. CORRESPONDING TO SUMMER MOULDED DRAUGHT OF 4'-6 3/8" (ACTUAL 4'-6 3/8")	28.36	✓	
	34.08	1.16	32.92
Summer Freeboard =			44.25

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

Tropical Fresh Water Line above Centre of Disc	NOT ASSIGNED	Tropical Fresh Water Freeboard	NOT ASSIGNED
Fresh Water Line	1 1/2" - 38 mm	Fresh Water	3' 6 3/4" = 1086 mm
Tropical Line	NOT ASSIGNED	Tropical	NOT ASSIGNED
Winter Line below	2" - 51 mm	Winter	3' 10 1/4" = 1145 mm
Winter North Atlantic Line	NOT ASSIGNED	Winter North Atlantic	NOT ASSIGNED

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.

Trade of ship CARGO & PASSENGER. IN ADRIATIC.

Names of sister ships VALJEVO.

Builder's name and yard number BRODOSRADALISTE 126.

Owners _____

Fee £ : : _____

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)



© 2020

Lloyd's Register
Foundation