

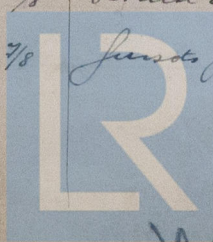
Date 24. Aug. 1927.Builders, Owners & Yard No.: Bremer Vulkan. Owners: Jugoslavenska Američanska Plovidba.Class and Type: 100 A. "Full scantling" Roop-bridge combined and forecorte.Dimensions: 420'-6" B.P. x 54'-28" B.M.²⁰ x 31'-0" D.M.²⁰ to Upper deck.Lifting Numbers: L x D = 13035. L (B+D) = 35860 T content = 76Portions: $\frac{L}{D} = 13.56$ to Upper deck; $= 10.8$ to Bridge deck.18.75 mid section18.95 Rot. Reft N 16 x 14.

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ITEM.	RULE.	PROPOSAL.
extent of W.T. kheads e spacing: es: Hold.	7 to Upper deck. $28\frac{1}{2} - 27 - 24.$ $I_y = 27.8 \times 6 = 167$	6 to Upper deck. $27\frac{1}{2}$ from A.P. to Coll Bld. $18\frac{1}{2}$ ft for peak. Combined I_y of arrangement as below over 6 frame spaces = 234 in^2 $7 \times 3\frac{1}{2} \times 48 \times 52$ $8\frac{3}{4} \times 3\frac{1}{2} \times 54$ ft in 17 = 16 holds. held webs $\frac{19 \times 52}{7} = 6.3 \times 3\frac{1}{2} \times 56$ spaced 6 spaces apart per hold as to spaces apart per E+B line.
Peaks. tween deck. e tween deck	$I_y = 7 \times 3\frac{1}{2} \times 38$ from $\frac{3}{2}L$ $I_y = 11.8$ depth $\frac{3}{2}L$ " = 11.3 as above at all frames.	$7 \times 8\frac{3}{4} \times 3\frac{1}{2} \times 52$ $I_y = 19$ $I_y = 19.3$ $7 \times 3\frac{1}{2} \times 48 \times 52$ or $8\frac{3}{4} \times 3\frac{1}{2} \times 54$ " "
determining "d"		
ht of tank side ackets:	$65\frac{1}{2} - 43\frac{1}{2} = 22"$	Mid. Section $78 - 48 \quad 30 - 22 = 8 : 2 = 4$
n knees:	$23.25 - 24"$	Rot. Reft N 16 x 14 $60 - 46 = 14 - 22 = 2 : 1 = 1$ $21"$ and longer knee in Webs.
DOUBLE BOTTOM.		
idth of inner ottom:		
re girder:	Top angle $3\frac{1}{2} \times 3\frac{1}{2} \times 51$ P. $43\frac{1}{2} \times 54$ Bottom angle $4 \times 4 \times 58$ D.	Top angle $5 \times 5 \times 52$ double 46×56 Bottom angle $5 \times 5 \times 52$ double.
girders:	Case .40	Case .40
gin:	$34\frac{1}{2} \times 52$	39×52
ors—thickness d spacing:	.40	.40 only.
r bottom plating:	M.L.S. 52×50 Rein .42	Summation of scantling in E+B spaces of mid st. in B Room (bottom compensated for. See Rot. Reft N 16 x 14.
gin connections:	Vertical angles $3\frac{1}{2} \times 3\frac{1}{2} \times 42$ Single Spine $7/8$ Joints every frame $7 \times 7/8$	Vertical angles $5\frac{1}{2} \times 5\frac{1}{2} \times 50$ and Joints plates $4\frac{1}{2}$ only 6 spaces.

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Hold Pillars = $\frac{27 \times 18.2 \times 20}{100} = 98.4$ length = 18' = $17\frac{1}{2} \times 62$ to IT

Upper keelson deck = $98.4 \times \frac{12}{20} = 59$ length and 8 = 12×14 Bars &

Bridge keelson deck = $\frac{27 \times 17.6 \times 4}{100} = 19$ " " " = $6\frac{1}{2} \times 140$

Deck girder for 2nd deck = $\frac{27 \times 18.2 \times 8}{100} = 1060$ Rule = II $12 \times 4 \times 4 \times 160$ upper

Fitted = II $12 \times 4 \times 4 \times 58$

to Upper deck = do = 1060 Proposed II $11 \times 4 \times 4 \times 58$ of 10

to Bridge deck = $\frac{27 \times 17.6 \times 4}{100} = 573$ Rule II $9 \times 3\frac{1}{2} \times 3\frac{1}{2} \times 4$ find

Proposed II $8 \times 3\frac{1}{2} \times 3\frac{1}{2} \times 4$ bridge

Top order of strength deck

	Rule	as Fitted
Steel plating	$144 \times 171 = 102$	$144 \times 50 = 72$
Stange plate	$58 \times 1102 = 59.4$	$72 \times 76 = 54.8$
Shearstake	$50 \times 96 = 48.0$	$43 \times 100 = 43.0$
to caulking	-	$24 \times 76 = 18.2$
to fore and aft bulk.	-	$7 \times 60 = 4.6$
	<u>209.4</u>	<u>192.6</u>

	Rule	As given
Shipping Bulkhead Hold	$710 \times 3\frac{1}{2} \times 52$ brackets	$710 \times 3\frac{1}{2} \times 52$
Transverse	$4\frac{1}{2} \times 3 \times 34$	$4\frac{1}{2} \times 3 \times 34$



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