

"Friesland" & "Sauerland" sisters to Date

Builders, Owners & Yard No.: "Münsterland" Bremer Vulkan 17588
 Class and Type: P, B & J. S.L. 100 A "with freeboard"
 Rule Dimensions: 157.92 M x 19.51 x 12.59 M 517.8' x 64' x 41.3'
 Scantling Numbers: 32.105 & 5077 105.3 & 54520
 Proportions: $\frac{L}{D} = 12.54$ to upper deck; = 10.5 to Bridge deck.
 d = 6.18 & 3.74 Draft: Copies kept?
 Equipment No. 9+ Similar Ships: Cruiser stern?

ITEM.	RULE.	PROPOSAL. In ship
No. & extent of W.T. bulkheads	8	8 to upper dk
Frame spacing:	760, 685 for $\frac{3}{5}L$, 610 Peaks	760, 700 for $\frac{3}{5}L$, 600 Peaks
Frames: Peaks	J 230 x 90 x 13	J 230 x 90 x 12.5
d = 3.74	JL $220 \times 90 \times 90 \times \frac{12.5}{15}$ 90 x 90 x 11	JL $230 \times 90 \times 12.5$ 120 x 90 x 12.5 } 245 girder
d = 6.18	JL $280 \times 100 \times 100 \times \frac{13.5}{16.5}$ 90 x 90 x 12.	JL $230 \times 90 \times 12.5$ 150 x 150 x 15 } 280 girder
B & B		JL $230 \times 90 \times 12.5$ 180 x 180 x 18 } 305 girder
Tween Dks For determining "d"		
Height of tank side brackets:		
Beam knees:		
DOUBLE BOTTOM.		
Breadth of inner bottom:		15.4 M
Centre girder:	1270 x 16 - 12.5 B 17	1240 x 14.5 - 11.5 B 16.5
Side girders:	Two 11.5 - 10 13.5	Two 11 - 9.5 13
Margin:	1066 x 14.5 15.5	1100 x 13.5 - 12.5 14.5
Floors—thickness and spacing:	12 - 10.5 13.5	11 - 9.5 12
Inner bottom plating:	1270 x 14.5 - 11.5 15.5	1100 x 13.5 - 11 16.5
rem.	12 - 10.5 & 14.5 15.5	11.5 - 10 14.5
Margin connection	Dble fra Gussets every Dble fra Gussets every 2 nd	Single Continuous gusset

ITEM.	RULE.		PROPOSAL.	
Pillars & Girders :			Two Rows.	
Beams :	Bridge	J 230 x 90 x 12 K 715 x 12.5	J 230 x 90 x 11.5 every	K 570 x 12
	Upper	J 230 x 90 x 12 K 715 x 12.5	J 230 x 90 x 12	K 570 x 12
	Second	J 240 x 90 x 12.5 K 765 x 12.5	J 240 x 90 x 12.5	K 600 x 12.5
	Third	J 240 x 90 x 12.5 K 765 x 12.5	J 240 x 90 x 12.5	K 600 x 12.5
Side Stringers :	Two		One	
Keel :	1320 x 32 - 22.5		1360 x 30.5 - 22	
Bottom Plating :	20.5 - 14.5		Bottom 17.5 - 12.5	
Side Plating :	19 - 13		Bulge 19.0 - 12.5	
Topsides :			17.5 - 12.5 one stroke + 1mm	
	<div>12.5 2 e 1200 x 15 B 130 x 130 x 18 20.5 19.5 28 - 13.5 B 19 25 - 13.5 B 19 11 - 8.5 7.5 B 13 - 11.5 2ND 100 x 100 x 13 - 11.5 9.5 - 8.5 9 B 11.5 3RD</div>		<div>13 2000 x 18.5 B 140 x 140 x 13 not given 1870 x 24 - 1125 x 11 9 B 150 x 150 x 15 dbk 140 x 75 x 11 - 10 eree. not given 9 - 8 8.5 B 140 x 75 x 11 - 10 2ND 8.5 - 7.5 140 x 75 x 11 - 10 3RD</div>	
Special Riveting :				

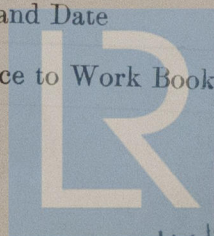
Special Riveting :

Submission of Plans: { Superstructures
 These plans should, where applicable, include { Arrangement to prevent Panting
 { Pillars and Girders
 { Construction of Bottom Forward

Initials and Date

Reference to Work Book

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