



S.S. Rosario STEEL

TESTS.

Date of Trial.	Where Tested.	Name of Builder of Ship.	Yard. No.	Description of Steel.	For what purpose intended.	Number of Sample.	Number of Plates or Angle Irons selected from.	Dimensions of Sample.			Breaking Strain of Sample.	Breaking Strain per Sq. Inch.	Elongation.	Forge Tests.				Remarks.
								Br'dth	Thick-ness.	Area.				Hot or Cold	Diamet'r required	Diamet'r bent to.	Results.	
4. 4. 83	Eschweiler	Charles S. Co	264	Leinens	Plates.	34	44	21 1/2	9 1/2	196	10 1/2	57 1/2	19 1/2	Bent cold before and after tempering to a radius of 1 1/2 thickness	Ins.	Ins.	Temper & cold test failed	All plates from this charge (352) have been rejected
10. 4. 83	"	"	"	Mild Steel	"	34d	"	20 3/4	10 3/4	209	10 1/2	48 1/4	21 1/2				"	
7. 4. 83	"	"	"	"	"	36	35	21 2	10 5	223	10 25	46 6	23				good	
11. 4. 83	"	"	"	"	"	37	50	22 45	10 3	254	12 50	47 3	20				"	
17. 4. 83	"	"	"	"	"	38	87	20 45	10 2	209	9 625	45 9	20				"	
"	"	"	"	"	"	39	"	20 50	11 8	242	10 75	44 4	21 1/2				"	
"	"	"	"	"	"	40	50	20 40	11 75	241	11 00	45 1/2	25 1/2				"	
2. 5. 83	"	"	"	"	"	71	102	19 70	13 5	266	13 25	49 0	16				"	Selected duplicate from same plate
5. 5. 83	"	"	"	"	"	72d	"	20 25	12 9	261	11 50	44 0	21				"	
2. 5. 83	"	"	"	"	"	72	"	19 7	12 05	238	11 25	47 3	22				"	Selected duplicate from same plate
"	"	"	"	"	"	73	53	20 0	12 6	252	13 75	54 5	17 1/2				"	
5. 5. 83	"	"	"	"	"	73d	"	20 35	12 80	260	11 50	44 2	22				"	Selected duplicate from same plate
11. 5. 83	"	"	"	"	"	74	49	20 85	12 70	265	11 50	43 4	20				"	
"	"	"	"	"	"	75	181	21 05	9 60	202	9 00	44 6	19 1/2				"	
"	"	"	"	"	"	76	"	20 60	9 70	200	9 00	45 0	25				"	
"	"	"	"	"	"	77	"	20 00	12 55	247	11 00	43 8	19				"	
28. 5. 83	"	"	"	"	"	78	"	20 60	13 00	268	12 75	43 8	22 1/2				"	
15. 6. 83	"	"	"	"	"	79	31	17 80	12 65	225	10 25	45 5	20 1/2				"	

Note: A tensile strength of 42.5 Kilo per square  $\frac{1}{4}$  in = 27 Tons per Square inch  
" " " " 48.8 " " " = 31 Tons " " "

C. J. Browne  
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