

Continued

607115-0107

Made at the Matabele Steel and Iron Works.

STEEL

TESTS.

by the Bessemer Process.

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.	
	Matabele	Matabele Comp:		Plate		EB 22	39	34.9	9.40	0.508 328.06	14.25	28.05	25.5%	Cold	3/8	3/8	Good	
	"	"		Angle Steel	frames	ES 1/4	27	34.2	9.90	0.525 338.58	14.40	27.43	28.0	"	39/32	28/32	"	
	"	"		"	"	ES 1/4	27	34.2	10.10	0.537 346.42	15.30	28.49	25.5	"	39/32	32/32	"	
	"	"		"	"	ES 1/6	27	34.4	9.70	0.517 332.68	14.25	27.56	28.0	"	3/8	3/8	"	
	"	"		"	"	ES 1/2	27	35.0	9.50	0.504 325.00	14.50	28.77	27.5	"	3/8	7/8	"	
	"	"		"	"	ES 1/2	27	34.7	9.60	0.516 332.32	14.00	27.13	28.0	"	3/8	7/8	"	
	"	"		"	"	ES 1/80	27	35.0	10.00	0.543 350.00	15.25	28.08	30.0	"	39/32	32/32	"	
	"	"		Bulk	Bridge Keelson	EX 3/8	8	34.4	10.50	0.560 361.20	17.75	28.02	28.0	"	39/32	28/32	"	
	"	"		"	"	EX 9/8	8	34.6	10.60	0.568 366.76	15.55	27.38	30.0	"	39/32	20/16	"	
	"	"		Plate	Garboardstrake	EM 1/2	22	34.7	14.20	0.764 492.74	21.55	28.22	22.5	"	28/16	20/16	"	
	"	"		"	Bottom	EM 3/4	21	34.5	13.20	0.706 455.40	21.40	30.31	24.0	"	24/16	18/16	"	
	"	"		"	Bottom	EM 3/4	22	35.1	14.20	0.773 498.42	22.25	28.78	20.0	"	27/16	14/16	"	
	"	"		"	Garboardstrake	EM 1/4	22	35.0	14.10	0.749 485.50	21.25	28.37	21.0	"	27/16	16/16	"	
	"	"		"	Bottom	EM 3/4	21	35.1	12.40	0.675 435.24	19.30	28.59	22.0	"	24/16	20/16	"	
	"	"		Angle Steel	frames	ES 1/2	27	34.7	10.50	0.565 364.35	15.80	27.96	26.0	"	39/32	32/32	"	
	"	"		"	"	ES 1/4	27	34.8	10.70	0.577 372.36	16.00	27.73	26.5	"	39/32	28/32	"	
	"	"		"	"	ES 1/2	27	35.0	9.50	0.515 352.50	14.75	28.64	24.0	"	3/8	7/8	"	
	"	"		"	"	ES 3/4	27	34.8	9.20	0.502 322.64	14.25	28.38	28.5	"	3/8	8/8	"	
	"	"		Plate	Bottom	EM 5/8	19	35.0	14.20	0.770 497.00	21.90	28.44	19.0	"	27/16	16/16	"	
	"	"		"	"	EM 3 3/4	22	34.9	12.50	0.664 428.27	19.50	29.07	21.0	"	24/16	16/16	"	
	"	"		"	"	EM 4 1/8	21	34.9	12.50	0.676 436.25	18.60	27.51	24.0	"	24/16	16/16	"	
	"	"		"	Topside	EM 1 1/2	22	34.4	11.20	0.597 385.28	17.35	29.05	21.0	"	21/16	16/16	"	
	"	"		"	"	EM 7/8	22	34.7	11.20	0.602 388.64	17.75	29.48	19.0	"	21/16	18/16	"	
	"	"		"	Bottom	EM 7/8	22	34.6	11.20	0.606 390.98	16.85	27.80	24.0	"	21/16	18/16	"	
	"	"		"	Topside	EM 1	21	34.6	13.20	0.708 456.72	20.15	28.46	20.5	"	24/16	16/16	"	
	"	"		"	Bottom	EM 8/4	23	34.5	12.80	0.680 429.04	19.75	29.04	19.0	"	24/16	18/16	"	
	"	"		"	Topside	EM 5/4	19	34.3	12.50	0.664 428.71	19.00	28.61	26.0	"	24/16	20/16	"	
	"	"		"	"	EM 9/3	22	34.3	11.70	0.622 401.51	17.35	27.89	21.0	"	21/16	18/16	"	

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