

Tests of Steel Plates ~~and Rivets~~ to be used in the construction of Boilers to be made by *Messrs L. Richardson & Sons* of *Hartlepool*, for *No A1 boiler, 183 L.S. by Messrs Layton & Dixon* Port *21st Feb 1881*

No.	MAKERS OF STEEL.	DATE OF TEST.	WHERE TESTED.	TENSILE TESTS OF PLATES.											
				Purpose intended for.	Number of Plates Selected from.	Surveyor's Mark on Plate, and Test-piece.	Dimensions of Test-piece.			Ultimate Stress.		Contraction of Area at Fracture.	Stress Per Sq. Inch of Fractured Area.	Extension.	
							Br'dth.	Thick- ness.	Area.	Total.	Per Square Inch.			In.	Per Cent.
504	Messrs	3 rd Feb.	East End	Finery, Lincs & Lincs	12 plates	504	1.29	.46	.593	17.25	29.0	51.4	59.8	1 ⁵ / ₈	20.3
997	J. & W. Richardson	.		— " —		997	1.3	.46	.598	16.5	28.8	48.2	53.2	1 ⁵ / ₈	24.2
994				Steel tube plates		994	1.31	.7	.917	26.25	28.6	52.0	59.5	2 ¹ / ₂	31.2
692		15 th Feb.		Furnace crowns		692	1.29	.53	.683	19.5	28.5	51.9	50.9	1 ³ / ₈	22.6

TEMPER TESTS OF PLATES.						SHEARING TESTS OF RIVETS.					
No. of Test.	For what purpose intended.	Dimensions.		Required Curve.	RESULTS.	No. of Test.	Diamtr. of Rivet.	Area of Rivet.	Ultimate Stress.		SKETCH OF JOINT AND REMARKS.
		Br'dth.	Thick- ness.						Total.	Per Sq. Inch.	
		Inches.	Inches.				Inches.	Sq. Inches.	Tons.	Tons.	
525					Satisfactory						
657					.						
692					.						
993					.						
994					.						
506					.						
790					.						
791					.						
573					.						
996					.						
997					.						
504					.						

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