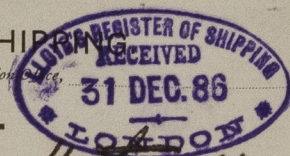


No. 4147.

TESTS OF BOILER STEEL.

(Received in London 24 Dec. 86)



Tests of 120 Steel Plate manufactured by Messrs D. Colville & Sons of Motherwell for Boiler No. 941 to be constructed by Messrs Blair & Co of Stockton-on-Tees for Messrs Turnbull & Son, S.S. No. 100

Date first visit Nov. 22nd 1886 last visit

No. of visits

The specified in the accompanying copy of Advice Notes were rolled from charges. The tensile test has been applied to 17 samples as set forth below, and the temper and bending tests to a shearing from each plate

When a second test is applied, the result should be recorded immediately below the record of the original test. The number of plates or bars included in a rejection must be clearly stated.

No.	Purpose.	Charge Mark.	No. of plates or bars in same charge	Mark on plate and test piece.	Dimensions.			Ultimate Stress.		Exten. in 8 ins.	Remarks.
					Thickn.	Brdth.	Area.	Total.	Sq. Inch.		
					Ins.	Ins.	Ins.	Tons.	Tons.	%	
1	Shell Plate	L939		5640	1.20	1.36	1.632	47.10	27.6	23.5	
2	Back Tube Plate	Stock		5642	.86	1.70	1.462	41.22	28.1	26.0	
3	Comb. Chamf. Bottom	N764		1843	.81	1.92	1.555	43.74	28.1	31.5	
4	Back Plate	N901		6966	1.01	1.25	1.262	34.74	27.5	26.5	
5	Girders	2357		7040	.76	1.61	1.223	36.71	30.0	22.5	
6	Comb. Chamf. Sides	N919		2087	.57	1.71	.974	25.05	25.7	26.5	
7	Back & Top	D605		7438	.57	1.78	1.014	29.92	29.5	29.0	
8	Top	J853		2315	.55	2.26	1.243	36.95	29.7	20.5	
9	Girders	N920		158	.80	1.65	1.32	36.12	27.3	27.0	
10	Comb. Chamf. Back	N919		139	.56	1.58	.884	24.58	27.8	28.0	
11	Girders	J856		464	.74	1.68	1.243	36.60	29.4	23.0	
12	Front Top	D613		1230	1.10	1.53	1.683	48.62	28.8	26.5	
13	Front Tube plate	L454		1476	.99	1.67	1.653	46.73	28.2	26.0	
14	Shell Plate	L996		1037	1.20	1.44	1.728	49.30	28.5	27.0	
15	Back Top	L434		2330	1.11	1.28	1.420	39.87	28.0	26.0	
16	Front Bottom	N931		2764	.99	1.40	1.386	39.30	28.3	25.0	
17	Manhole Door	Stock		4252	1.22	1.21	1.476	42.90	29.0	24.0	

D.P.
5/11/87

Fee £ : :
Expenses £ : :
£ : :

To be paid by