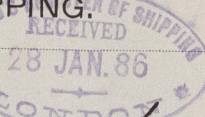


No. 3281.

(Received at London Office,



TESTS OF BOILER STEEL.

Tests of 85 Steel plates manufactured by Clydesdale Iron & Steel Co. of Glasgow for Boiler No. 114 to be constructed by J & J. Thomson of Glasgow for S.S. N° 146 building by C. Cornwell & Co. of Glasgow

Date first visit 18<sup>th</sup> Dec. 1885 last visit 26<sup>th</sup> Jan. 1886 No. of visits 4

The plates specified in the accompanying copy of Advice Notes were rolled from charges. The tensile test has been applied to 15 samples as set forth below, and the temper and bending tests to samples representative of each plate advised all of which proved satisfactory

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.	Brith.	Area.	Total.	Sq. Inch		
					Ins.	Ins.	Ins.	Tons.	Tons.	%	
1	4-4 1/2 x 58 x 1/2	A 12		631	.49	1.21	.593	16	26.9	22	
2	10-0 x 33 x 1/2	A 12		644	.49	1.21	.593	15.5	26.1	30	
3	12-0 x 51 x 1/2	D 446		649	.51	1.21	.614	14.9	29	24	
4	2-4 x 24 x 3/8	A 16		1064	.545	1.225	.688	18.2	24.2	24	
5	8-5 x 33 x 1/2	A 12		1065	.48	1.225	.588	16.2	24.5	26	
6	5-9 x 56 1/2 x 1/8	B 366		1066	.645	1.225	.826	21.8	26.3	30	
7	14-6 x 42 x 3/4	D 446		685	.46	1.225	.931	26.5	28.4	22	
8	14-6 x 68 x 1/8	A 15		459	.83	1.2	.996	24.3	24.4	28	
9	13-9 x 65 x 1/8	B 334		1210	.82	1.235	1.012	26.8	26.4	26	
10	20-4 x 66 x 1/8	B 341		1327	.91	1.25	1.134	32.95	28.9	22	
11	5-9 x 58 1/2 x 1/8	A 23		1253	.4	1.245	.841	22.45	26.1	26	
12	20-4 x 66 x 1/8	D 462		1422	.9	1.29	1.161	35	30.1	23.5	
13	13-9 x 62 x 1/8	A 44		2195	.94	1.24	1.165	33.4	28.6	24	
14	12-0 x 57 x 1/2	A 44		2354	.445	1.25	.618	14.1	24.6	26	
15	14-4 x 72 x 3/4	D 464		2381	.46	1.265	.961	28.4	29.5	23	

Fee ..... £ : :

Expenses £ : :

£ : :

To be paid by Manufacturers

Surveyor, Lloyd's Register.

Glasgow