



TESTS OF BOILER STEEL.

Tests of 45 Steel plates manufactured by Messrs A. W. Beardmore of Parkhead
for Boiler No. 238 to be constructed by Mr. W. B. Thompson of Dundee
for the SS 69 " " " " " " " " " " " "

Date first visit May 2nd last visit June 5th/85 No. of visits 6

The Steel plates specified in the accompanying copy of Advice Notes were rolled from charges. The tensile test has been applied to 16 samples as set forth below, and the temper and bending tests to samples representative of every plate advised with satisfactory results.

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.		
1	12" 2 x 36 1/2 x 3/4	No 189		624	.55	1.02	.561	16.45	29.3	25	
2	4" 5 1/4 x 8 1/4 x 3/4	No 190		628	.55	1.3	.715	19.5	24.2	28	
3	16" 2 1/4 x 60 3/4 x 3/16	A 226		632	.98	1.	.98	28.3	28.8	23	
4	6" 6 x 45 1/4 x 3/4	L 38		634	.54	1.29	.696	20.25	29.	25	
5	4" 4 R x 6 1/4 x 3/16	No 190		633	.8	1.31	1.048	30.72	29.3	28	
6	4" 5 1/4 x 8 1/4 x 3/4	No 21		639	.56	1.31	.733	21.1	28.7	26	
7	16" 2 1/4 x 60 3/4 x 3/16	A 227		649	.99	1.07	1.059	30.3	28.6	23	
8	11" 4 1/2 x 36 1/2 x 3/4	No 90		789	.47	1.33	.625	17.13	27.4	28	
9	16" 0 x 64 1/2 x 3/4	F 223		790	.77	1.4	.8	23.	28.7	20	
10	16" 0 1/4 x 60 3/4 x 3/16	F 242		791	.96	1.07	1.027	30.1	29.3	23	
11	" " " "	F 222		927	.95	1.08	1.026	30.45	29.6	23	
12	16" 2 1/4 x 45 x 3/16	K 52		931	.92	1.05	.966	27.72	28.6	27	
13	5" 10 1/2 x 8 1/4 x 5/8	F 234		168	.63	1.1	.693	18.68	26.9	30	
14	" " " "	No 159		169	.63	1.29	.812	22.85	28.	28	
15	4" 11 R x 7 1/4 x 3/16	No 33		768	.79	1.07	.845	22.8	26.9	32	
16	" " " "	D 68		769	.79	1.1	.869	24.27	27.9	27	

D. F.
11/6/85.
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D. J. 11/6/85

Fee £ ; ;

Expenses £ : :

£ : :

To be paid by Messrs. J. W. Beardmore Glasgow

Surveyor, Lloyd's Register,

more *Glasgow*

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