

No. 4246.

TESTS OF BOILER STEEL.

Tests of 137 Steel plates manufactured by Clydesdale Iron & Steel Co. of Glasgow
for Boiler No. 148 to be constructed by D. Rowan & Sons of Glasgow
for S.S. 276 building by R. McMillan & Son of Dumbarton
Date first visit 29th Oct. last visit 3rd Dec. 1887 No. of visits 9

The plates specified in the accompanying copy of Advice Notes were rolled from
charges. The tensile test has been applied to 22 samples as set forth below,
and the temper and bending tests to samples representative of each
plate advised all of which proved satisfactory

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	5-11 $\frac{1}{2}$ x 20 $\frac{1}{2}$ x $\frac{1}{8}$	A298	4588	.82	1.24	1.016	28.5	28	27		
2	7-2 x 35 $\frac{1}{2}$ x $\frac{1}{8}$	B3650	4590	.55	1.24	.682	18.5	27.1	23		
3	14-9 x 61 $\frac{1}{2}$ x $\frac{7}{8}$	B3669	4594	.87	1.24	1.078	29.2	27.1	29		
4	10-4 $\frac{1}{2}$ x 71 $\frac{1}{8}$ x 1 $\frac{1}{4}$	A297	4600	1.21	1.24	1.5	42.0	28.0	24		
5	10-4 $\frac{1}{2}$ x 71 $\frac{1}{8}$ x 1 $\frac{1}{4}$	B3677	517	1.26	1.25	1.575	45.7	29.0	22		
6	To sketch + 1	B3680	515	1	1.26	1.26	33.4	26.5	29		
7	10-4 $\frac{1}{2}$ x 71 $\frac{1}{8}$ x 1 $\frac{1}{4}$	A305	520	1.26	1.26	1.587	43.2	27.2	24		
8	14-9 $\frac{1}{2}$ x 61 $\frac{1}{2}$ x $\frac{7}{8}$	A298	4650	.91	1.29	1.173	33.4	28.4	24		
9	10-4 $\frac{1}{2}$ x 71 $\frac{1}{8}$ x 1 $\frac{1}{4}$	B3671	4959	1.28	1.2	1.536	42.9	27.9	23		
10	4-7 x 20 $\frac{1}{2}$ x $\frac{1}{8}$	B3673	4957	.82	1.19	.975	26.8	27.4	27		
11	4-7 x 20 $\frac{1}{2}$ x $\frac{1}{8}$	B3672	4951	.81	1.25	1.012	27.35	27.0	29		
12	7-2 x 35 $\frac{1}{2}$ x $\frac{1}{8}$	A323	1351	.55	1.255	.69	19.3	28.0	22		
13	10-2 $\frac{1}{2}$ x 71 $\frac{1}{8}$ x 1 $\frac{1}{4}$	A322	1406	1.27	1.03	1.308	35.6	27.2	24		
14	10-4 $\frac{1}{2}$ x 71 $\frac{1}{8}$ x 1 $\frac{1}{4}$	B3695	1580	1.29	1.21	1.56	46.75	29.9	24		
15	To sketch + 1	A335	2493	.98	1.21	1.185	33.9	28.6	22		
16	10-4 $\frac{1}{2}$ x 71 $\frac{1}{8}$ x 1 $\frac{1}{4}$	D752	2688	1.27	1.21	1.536	44.1	28.7	26		
17	10-4 $\frac{1}{2}$ x 71 $\frac{1}{8}$ x 1 $\frac{1}{4}$	E213	1963	1.275	1.26	1.606	45.0	28.0	26		
18	10-4 $\frac{1}{2}$ x 71 $\frac{1}{8}$ x 1 $\frac{1}{4}$	B3698	1927	1.38	1.26	1.738	48.2	27.7	20		
19	10-2 $\frac{1}{2}$ x 71 $\frac{1}{8}$ x 1 $\frac{1}{4}$	D742	1818	1.34	1.2	1.608	46.5	28.9	26		
20	10-2 $\frac{1}{2}$ x 71 $\frac{1}{8}$ x 1 $\frac{1}{4}$	E214	2250	1.315	1.2	1.578	44.0	27.8	27		
21	10-2 $\frac{1}{2}$ x 71 $\frac{1}{8}$ x 1 $\frac{1}{4}$	A332	2282	1.29	1.2	1.548	44.2	28.5	28		
22	10-6 $\frac{1}{2}$ x 10 $\frac{1}{2}$ x $\frac{7}{8}$	F5	3346	.85	1.26	1.071	30.3	28.2	28		

Fee £ : :

Expenses £ : :

£ : :

To be paid by

Surveyor, Lloyd's Register,

Glasgow