

TESTS OF BOILER STEEL.

Tests of 125 Steel plates manufactured by the Steel Co. of Scotland of Blochaim for Boilers No. 241 to be constructed by Messrs J.W. Thomson of Glasgow for the S.S. "City of Paris" building by the same firm

Date first visit 5/8 last visit 5/9/87 No. of visits 8

The specified in the accompanying copy of Advice Notes were rolled from charges. The tensile test has been applied to 54 samples as set forth below, and the temper and bending tests to a shearing from each plate 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			
					Ins.	Ins.	Ins.	Tons.	Tons.	%		
1	Furnace Front	B.211			104.76	.77	1.23	.963	26.4	27.4	27	
2	"	"	H.187		105.27	.8	1.22	.976	28.45	29.1	26	
3	"	"	L.152		104.16	.74	1.26	.932	27.65	29.6	26.5	
4	"	"	A.228		102.96	.775	"	.977	27.2	27.8	27	
5	"	"	C.229		103.93	"	"	"	27.2	27.8	29	
6	"	"	O.147		101.09	.8	"	1.008	29.15	28.9	28	
7	"	"	L.163		101.14	.805	1.16	.934	27.3	29.2	23.5	
8	Firebox wings	H.266			435.7	.515	1.13	.582	16.3	28.0	22	
9	Br. Tube pl. C	L.195			107.48	.84	"	.949	26.8	28.2	22	Cross piece
10	" " " wings	L.193			107.40	.83	"	.938	27.5	29.3	26	
11	Firebox wings	H.201			107.70	.55	1.14	.627	19.4	30.9	23.5	Rejected
12	"	"	A.252		107.76	.55	1.13	.622	18.4	29.5	24.5	Cross piece
13	"	"	H.268		107.79	.55	1.14	.627	18.45	29.4	23	
14	Straps	A.252			107.81	.96	"	1.094	30.65	28.0	26.5	
15	Shell	J.252			107.86	1.3	1.13	1.469	44.0	29.9	22.57	
16	—	—			"	1.3	"	1.469	44.1	30	23	Cross piece
17	Firebox wings	L.196			444.6	.53	"	.599	17.0	28.3	25.5	
18	Br. Tube pl. wings	H.266			107.27	.86	1.24	1.066	29.05	27.2	24	
19	" " " "	L.194			107.34	.88	1.23	1.082	31.2	28.8	20.5	Cross piece
20	Guide Stays	B.213			106.32	1.38	1.14	1.573	45.9	29.1	17	Rejected
21	Br. Tube pl. C	H.195			106.58	.845	1.13	.955	27.1	28.3	28	
22	Front " "	H.198			432.7	.82	1.12	.918	26.2	28.5	21.57	
23	—	—			"	.835	1.14	.952	27.0	28.3	27	Cross piece
24	Furnace Front	H.201			444.03	.76	1.13	.859	25.35	29.5	25.57	
25	—	—			"	.76	1.13	.859	25.55	29.7	22	Cross piece
26	Shell	J.253			444.35	1.28	1.16	1.485	43.8	29.4	21	
27	—	—			"	1.31	1.16	1.52	45.6	30.0	20.57	Cross piece
28	Br. Tube pl. wings	C.240			417.8	.83	1.24	1.029	29.7	28.8	21.5	
29	" " " "	"			419.4	.83	1.11	.921	25.7	27.9	21	
30	Straps	B.240			432.0	.92	1.24	1.141	33.4	29.2	22	
31	Furnace Front	H.198			432.4	.78	1.24	.967	27.6	28.5	23	

Ans. 4.9.87

Fee £ : :

Expenses £ : :

£ : :

To be paid by

Surveyor, Lloyd's Register.

No. 5392

TESTS OF BOILER STEEL.

Contⁿ of

Tests of — Steel plate manufactured by The Steel & Iron Co. of Scotland of Glasgow
for Boiler No. 241 to be constructed by Messrs J. & W. Thomson of Glasgow
for the S.S. No. 241 building by the same firm

Date first visit 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 samples as set forth below,
and the temper and bending tests

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	A.248		4321	1.29	1.23	1.587	44.6	28.1	20.5	Cross piece
2		—		"	1.3	1.27	1.651	47.7	28.8	22	
3	Firebox wings	F.238		4202	.545	1.11	.605	16.1	26.6	28.5	
4	" Centre	C.241		4257	.545	1.22	.665	17.8	26.7	17	Rejected
5	"	"		4260	.515	1.13	.582	17.2	29.5	17	do
6	"	F.239		4264	.525	1.21	.635	18.1	28.5	26	
7	"	"		4267	.535	1.21	.647	18.2	28.1	23.5	
8	"	"		4277	.545	1.22	.665	18.7	28.1	24	
9	Guide Stays	D.217		10550	1.4	1.16	1.624	44.85	27.6	25	
10	"	O.201		10579	1.38	1.24	1.711	49.4	28.8	21.5	
11	Shell	F.235		10584	1.29	"	1.6	45.15	28.2	23	
12		—		"	"	"	"	44.35	27.7	24	cross piece
13	Shell	C.238		10600	1.3	"	1.612	48.0	29.7	23.5	
14		—		"	"	"	"	44.8	27.7	23.5	Cross piece
15	FR. Tube pl. wings	H.195		10656	.87	1.21	1.053	28.25	26.8	28.5	
16	"	F.239		10667	.855	1.24	1.06	29.35	27.6	27.5	
17	Furnace Flant	H.196		10662	.77	1.24	.955	26.0	27.2	26	
18		—		"	.775	1.23	.953	26.8	28.1	24.5	Cross piece
19	Front Tube pl	C.241		10669	.845	1.24	1.048	30.0	28.6	30	
20		—		"	.81	"	1.004	29.4	29.2	25	Cross piece
21	Straps	G.242		10677	.93	"	1.153	33.0	28.6	18	Rejected
22	Guide Stays	B.215		10680	1.34	"	1.662	48.15	28.9	17	do
23	"	F.232		10520	1.39	1.22	1.696	49.5	29.1	26	

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A.L. 1/4.9.87

Fee £ : :

Expenses £ : :

£ : :

To be paid by

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Lloyd's Register
Surveyor, Lloyd's Register.
Glasgow
5/9/87