

TESTS OF BOILER STEEL.

Tests of S3 Steel plate manufactured by The Steel Co. of Scotland of Blochaim  
for Boilers No. 241 to be constructed by Messrs J. & G. Thomson of Glasgow  
for the S.S. No. 241 building by the same Firm

Date first visit 3/10 last visit 7/10/87 No. of visits 3

The specified in the accompanying copy of Advice Notes were rolled from  
charges. The tensile test has been applied to 19 samples as set forth below,  
and the temper and bending tests to a shearing of 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   | Girders Stays      | A.257        |                                       | 9409                          | 1.37        | 1.12   | 1.534 | 45.1             | 29.4      | 21               |             |
| 2   | Furnace Front      | E.242        |                                       | 9413                          | .77         | 1.13   | .87   | 24.7             | 28.3      | 27               | Cross piece |
| 3   |                    |              |                                       | "                             | "           | 1.26   | .97   | 26.9             | 27.7      | 24               |             |
| 4   | Front Tube pl      | H.242        |                                       | 9427                          | .845        | 1.25   | 1.056 | 30.0             | 28.4      | 29               |             |
| 5   |                    |              |                                       | "                             | "           | "      | "     | 30.3             | 28.6      | 27.5             | Cross piece |
| 6   | Girders Stays      | O.256        |                                       | 9430                          | 1.39        | 1.12   | 1.557 | 43.4             | 27.8      | 22.5             |             |
| 7   | W. Washers         | "            |                                       | 4719                          | .935        | "      | 1.047 | 29.35            | 28.0      | 22               |             |
| 8   | "                  | J.279        |                                       | 4742                          | .92         | "      | 1.03  | 28.3             | 27.4      | 23               | Cross piece |
| 9   | S. Straps          | D.259        |                                       | 4857                          | .93         | 1.29   | 1.2   | 31.75            | 26.4      | 24               |             |
| 10  | Firebox wings      | E.244        |                                       | 4881                          | .535        | 1.11   | .594  | 16.8             | 28.2      | 25               |             |
| 11  | "                  | B.260        |                                       | 4887                          | .52         | "      | .577  | 16.0             | 27.7      | 25               |             |
| 12  | S. Straps          | D.259        |                                       | 9417                          | .93         | 1.26   | 1.172 | 30.65            | 26.1      | 26.5             |             |
| 13  | Front Tube pl. wgs | C.273        |                                       | 9419                          | .88         | 1.27   | 1.118 | 30.25            | 27.0      | 25               | Cross piece |
| 14  | "                  | B.259        |                                       | 9422                          | .86         | 1.26   | 1.084 | 30.3             | 27.9      | 25               |             |
| 15  | Firebox C          | H.240        |                                       | 4571                          | .53         | 1.12   | .594  | 17.4             | 29.2      | 25.5             |             |
| 16  | "                  | H.242        |                                       | 4573                          | "           | 1.29   | .684  | 19.5             | 28.5      | 25               |             |
| 17  | " wgs.             | B.258        |                                       | 4649                          | "           | 1.12   | .594  | 17.4             | 29.2      | 24.5             |             |
| 18  | Furnace Mantling   | L.149        |                                       | 4619                          | .295        | 1.29   | .381  | 11.45            | 30        | 23.5             |             |
| 19  | Girders Stays      | J.280        |                                       | 8575                          | 1.4         | 1.12   | 1.568 | 44.9             | 28.6      | 26               |             |

Fee ..... £ : :  
Expenses £ : :  
£ : :

To be paid by

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Surveyor, Lloyd's Register,  
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11/10/87.