

No. 8069

TESTS OF BOILER STEEL.

Tests of 84 Steel plates manufactured by Messrs. H. Beadmore & Co. of Parkhead
for Boiler No. 354 to be constructed by Messrs. Denny & Co. of Dumbarton.
for S.S. building by the same firm.

Date first visit 3rd July last visit 6th July No. of visits Constant attendance.

The specified in the accompanying copy of Advice Notes were rolled from
charges. The tensile test has been applied to 9 samples as set forth below,
and the temper and bending tests applied to piece cut off 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 | 4.1 x 2.4 x 78 x 9/16 | M218 | | 1241 | 6 | 1.16 | 6.96 | 19.8 | 28.4 | 27.0 | |
| 2 | 6.4 x 5.7 x 3/4 | M154 | | 1133 | .81 | 1.17 | 9.47 | 26.5 | 27.9 | 22.0 | |
| 3 | 4.0 x 2.11 x 86 x 9/16 | D169 | | 1140 | .61 | 1.19 | 7.25 | 21.3 | 29.3 | 21.0 | |
| 4 | 5.2 x 3.5 x 7/16 | M157 | | 1242 | .69 | 1.31 | 9.03 | 24.6 | 27.2 | 22.0 | |
| 5 | 6.8 x 20.2 x 1 1/16 | A97 | | 183 | 1.04 | 1.2 | 1.248 | 32.9 | 26.4 | 25.0 | |
| 6 | 7.5 x Rad 6 1/4 x 1 1/16 | M213 | | 270 | 1.09 | 1.15 | 1.253 | 35.8 | 28.5 | 26.0 | |
| 7 | 12.4 x 7 5/8 x 1 3/8 | A92 | | 247 | 1.37 | 1.2 | 1.644 | 48.9 | 29.7 | 25.0 | |
| 8 | 10.1 x 5 1/2 x 9/16 | D168 | | 1072 | .54 | 1.26 | .68 | 19.4 | 28.5 | 29.0 | |
| 9 | 6.4 x 5.7 x 3/4 | M217 | | 1134 | .81 | 1.16 | 9.39 | 26.3 | 28.0 | 23.0 | |

Fee £ : :

Expenses £ : :

£ : :

To be paid by

Surveyor, Lloyd's Register

Glasgow 6/7/88.