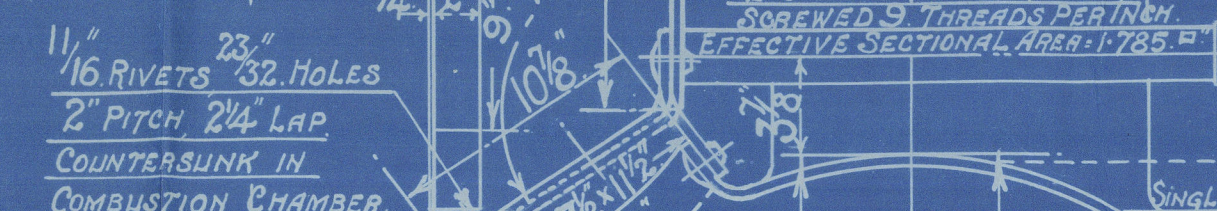


### HORIZONTAL FLUE TUBES.



| LLOYDS           |  |              |
|------------------|--|--------------|
| PLATE            | $\frac{21.675 - 17.875}{21.67}$ X 100  | = 66.7%      |
| RIVETS           | $\frac{24 \times 4.05 \times 8 \times 81}{28 \times 2.5 \times 11 \times 375}$ X 100 | = 80%        |
| FRONT TUBE PLATE | $\frac{4.25 - 4.625}{4.25}$ X 100  | = 38.2%      |
| BACK TUBE PLATE  | $\frac{4.25 - 2.5}{4.25}$ X 100  | = 41.1%      |
| SHELL            | $\frac{(12 - 2) \times 28 \times 66.7}{2.9 \times 32}$                               | = 165 LBS.   |
| FRONT TUBE PLATE | $\frac{(16 - 2) \times 26 \times 38.2}{2.9 \times 32}$                               | = 135 LBS.   |
| BACK TUBE PLATE  | $\frac{(16 - 2) \times 26 \times 17.5}{2.9 \times 32}$                               | = 173.5 LBS. |
| FURNACE CROWN    | $\frac{27.5 \times (16 - 1)}{17.5}$  | = 235.7 LBS. |
| FURNACE SIDES    | $\frac{14.50 \times (12 - 1)}{17.5}$   | = 180.5 LBS. |
|                  | $\frac{70}{32.675} \times \frac{10}{(4 - 1)} - 17.5$                                 | = 172 LBS.   |

**DRAWING NO. 16395**



COCHRAN & CO., ANNAN, LD.

Boiler No. 10785

Drawing No. 16395

W. P. = 100 lbs.

GLASGOW REPORT No. 48193.

W663-0174

