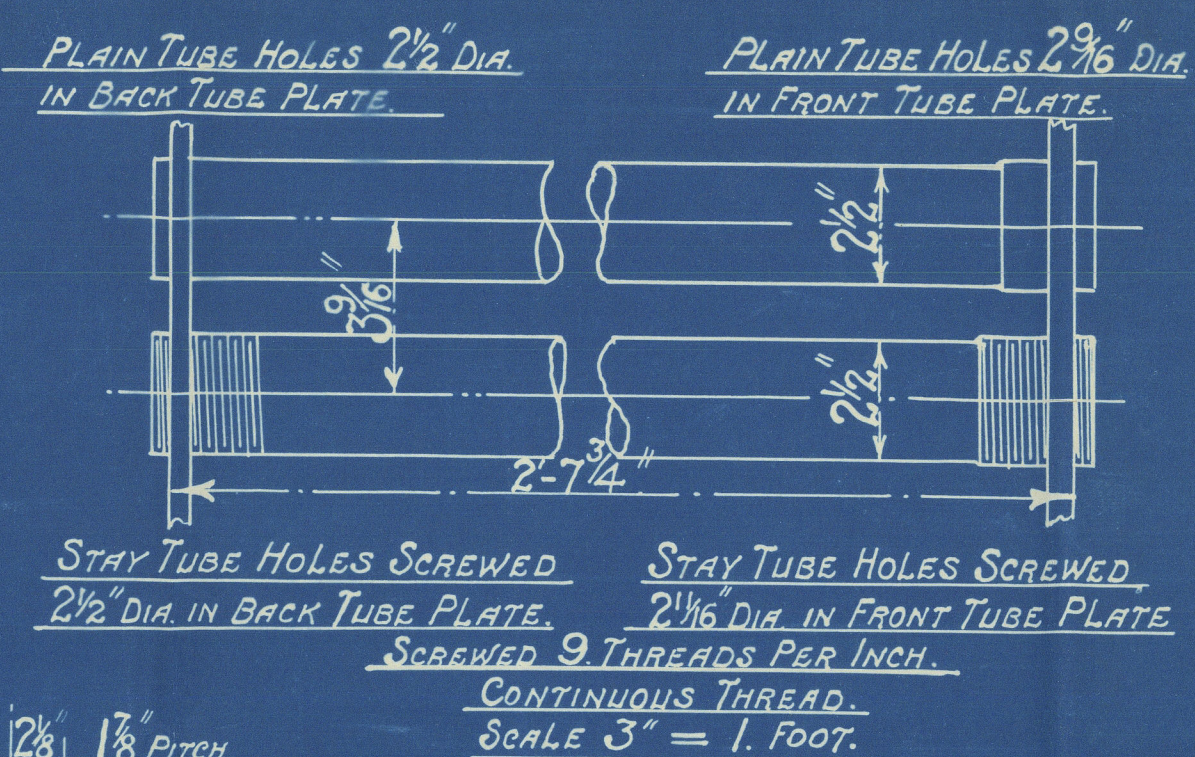


### HORIZONTAL FLUE TUBES.



	WEIGHTS	
PLATE	$\frac{2-141}{2-141} - \frac{71875}{71875} \times 100 = 66.4\%$	
RIVETS	$\frac{100 \times 28 \times 1.0576 \times 21}{28 \times 2.028 \times 3.845} = 77.7\%$	
FRONT TUBE PLATE	$\frac{8.5685}{8.5685} \times 100 = 26.3\%$	
BACK TUBE PLATE	$\frac{8.5685}{8.5685} \times 100 = 29.8\%$	
SHELL	$\frac{(12-2) \times 28.66 \times 4}{2.9 \times 25} = 142.5 \text{ LBS}$	
FRONT TUBE PLATE	$\frac{(12-2) \times 28.66 \times 4}{2.9 \times 25 \times 3.623} \times 100 = 106 \text{ LBS}$	
BACK TUBE PLATE	$\frac{(12-2) \times 28.66 \times 4}{2.9 \times 25 \times 3.623} \times 100 = 116 \text{ LBS}$	
FURNACE CROWN	$\frac{2450 \times 1}{29} = 179.2 \text{ LBS}$	
FURNACE SIDES	$\frac{2450 \times (15-1)^2}{(8 \times 24) \times 3.6 \times 104} = 175.1 \text{ LBS}$	
" "	$\frac{38.694 \times 10 \{10(1-1)-18\}}{10} = 160.1 \text{ LBS}$	

10429.  
10427 - 10428  
10425 - 10426  
10423 - 10424

**PATENT BOILER NOS 10421-10422**  
**3'-9" x 10'-0" x 100# H.S. x 100 LBS. W.P.**

SCALE 1/2 INCHES TO 1 FOOT.

SIEMENS MARTIN MILD STEEL PLATES  
TENSILE TESTS.

PLATES NOT EXPOSED TO FLAME OR FLANGED.....28 TO 32 TONS.  
PLATES EXPOSED TO FLAME OR FLANGED.....26 TO 30 TONS.

## SURVEY: LLOYDS.

DOCHIRAN & CO ANNAN  
ENGINEERS & BOILERMAKERS  
ANNAN SCOTLAND

DRAWING NO. 15696



**COCHRAN & CO., ANNAN, LD.**

Boiler No. 10422

Drawing No. 15696

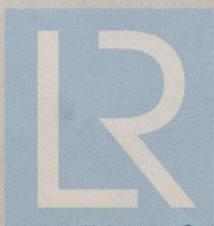
WP ~ 100 lbs.

Is King Column

Bel. 9886.

GLASGOW REPORT No. 46785

W247-0019



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