

COCHRAN PATENT VERTICAL MULTITUBULAR BOILER

HORIZONTAL FLUE TUBES

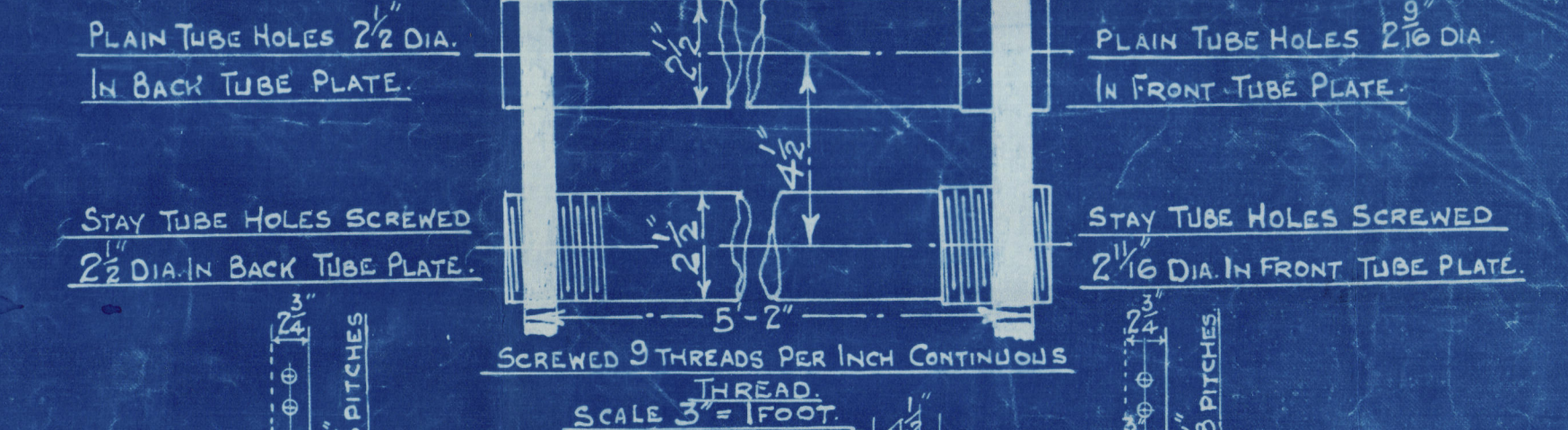


PLATE	$\frac{12.675 \times 100625 \times 100}{2.675} = 66.1\%$
RIVETS	$\frac{100(23 \times 645 \times 2 \times 1)}{28 \times 2.675 \times 2.675} = 66.6\%$
FRONT TUBE PLATE	$\frac{4.5}{28 \times 2.675} \times 100 = 41.6\%$
BACK TUBE PLATE	$\frac{4.5}{28 \times 2.675} \times 100 = 44.5\%$
SHELL	$\frac{(12.2) \times 26 \times 66.1}{2.8 \times 2.6} = 106.5 \text{ LBS.}$
FRONT TUBE PLATE	$\frac{(27.2) \times 26 \times 41.6}{2.8 \times 2.6} = 102 \text{ LBS.}$
BACK TUBE PLATE	$\frac{(24.2) \times 26 \times 44.5}{2.8 \times 2.6} = 109.3 \text{ LBS.}$
FURNACE	$\frac{274(10 \times 1)}{42} = 124.2 \text{ LBS.}$
OGEE RING	$\frac{140(32-11.2)}{56 \times (26-24)} = 117 \text{ LBS.}$

HEATING SURFACE.	
TUBES	7405 Sq. Ft.
PLATE	110 Sq. Ft.
TOTAL	8505 Sq. Ft.
GRATE AREA	37 Sq. Ft.

Similar to Drawg No 12721 app. 3-4-23 for Boiler No 9054 but with pitch of rivets around firehole increased to 2 1/2"

PATENT BOILER No 11076

8'-0" x 16'-6" x 850 lbs. x 100 lbs.

SCALE 1 INCH 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 8 RIVETS 26 TO 30 TONS.

COCHRAN & CO. ANNAN LTD.

ENGINEERS & BOILERMAKERS.

ANNAN, SCOTLAND. Register

DRAWING No 14630.

STANDARD
SURVEY-LLOYDS

W262 0042

PLAN OF SHELL CROWN JOINTS

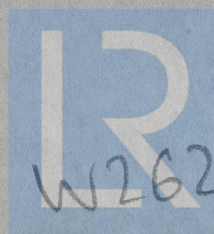
COCHRAN & CO., ANNAN, LD.

Boiler No. 11076.

Drawing No. 14630.

W.P. 100 lbs.

GLASGOW REPORT No. 49291



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