

COCHRAN PATENT VERTICAL MULTITUBULAR BOILER

HORIZONTAL FLUE TUBES

PLAIN TUBE HOLES $2\frac{1}{2}$ " DIA.
IN BACK TUBE PLATE.

PLAIN TUBE HOLES $2\frac{1}{8}$ " DIA.
IN FRONT TUBE PLATE.

STAY TUBE HOLES SCREWED
 $2\frac{1}{2}$ " DIA. IN BACK TUBE PLATE.

STAY TUBE HOLES SCREWED
 $2\frac{1}{8}$ " DIA. IN FRONT TUBE PLATE.

SCREWED 9 THREADS PER INCH CONTINUOUS
THROUGH
SCALE $3" = 1$ FOOT

PLATE	12 875-90625	$\times 100 = 66.1\%$
RIVETS	100 (23 x 645 x 221)	$= 66.6\%$
FRONT TUBE PLATE	42 5-2 625	$\times 100 = 41.6\%$
BACK TUBE PLATE	42 5-2 625	$\times 100 = 44.5\%$
SHELL	10-2 26 x 661	$= 106.5$ LBS.
FRONT TUBE PLATE	27-2 26 x 416	$= 102$ LBS.
BACK TUBE PLATE	24-2 26 x 445	$= 109.3$ LBS.
FURNACE	275 (20-1)	$= 124.2$ LBS.
OGEE RING	140 (32-11)	$= 117$ LBS.

SHELL RIVETING.
 $\frac{7}{8}$ " RIVETS.
29" x 32 HOLES.

4 STUDS FOR
SMOKEBOX CLAMPS.

HEATING SURFACE.	
TUBES	7405 Sq. Ft.
PLATE	1105 Sq. Ft.
TOTAL	8505 Sq. Ft.
GRATE AREA	37 Sq. Ft.

MANHOLE & MUDHOLE DOORS TO HAVE STUDS.
SCREWED THROUGH PLATES & FITTED WITH NUTS INSIDE.

*Similar to P. N. 12721
approx 3-4-23 for S. N. 9054
but with field of flange around
firehole altered to 2 1/4*

PATENT BOILER No 10835

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 & RIVETS..... 26 TO 30 TONS

COCHRAN & CO. ANNAN LTD.
ENGINEERS & BOILERMAKERS

ANNAN, SCOTLAND

DRAWING No 14630

STANDARD
SURVEY-LLOYDS

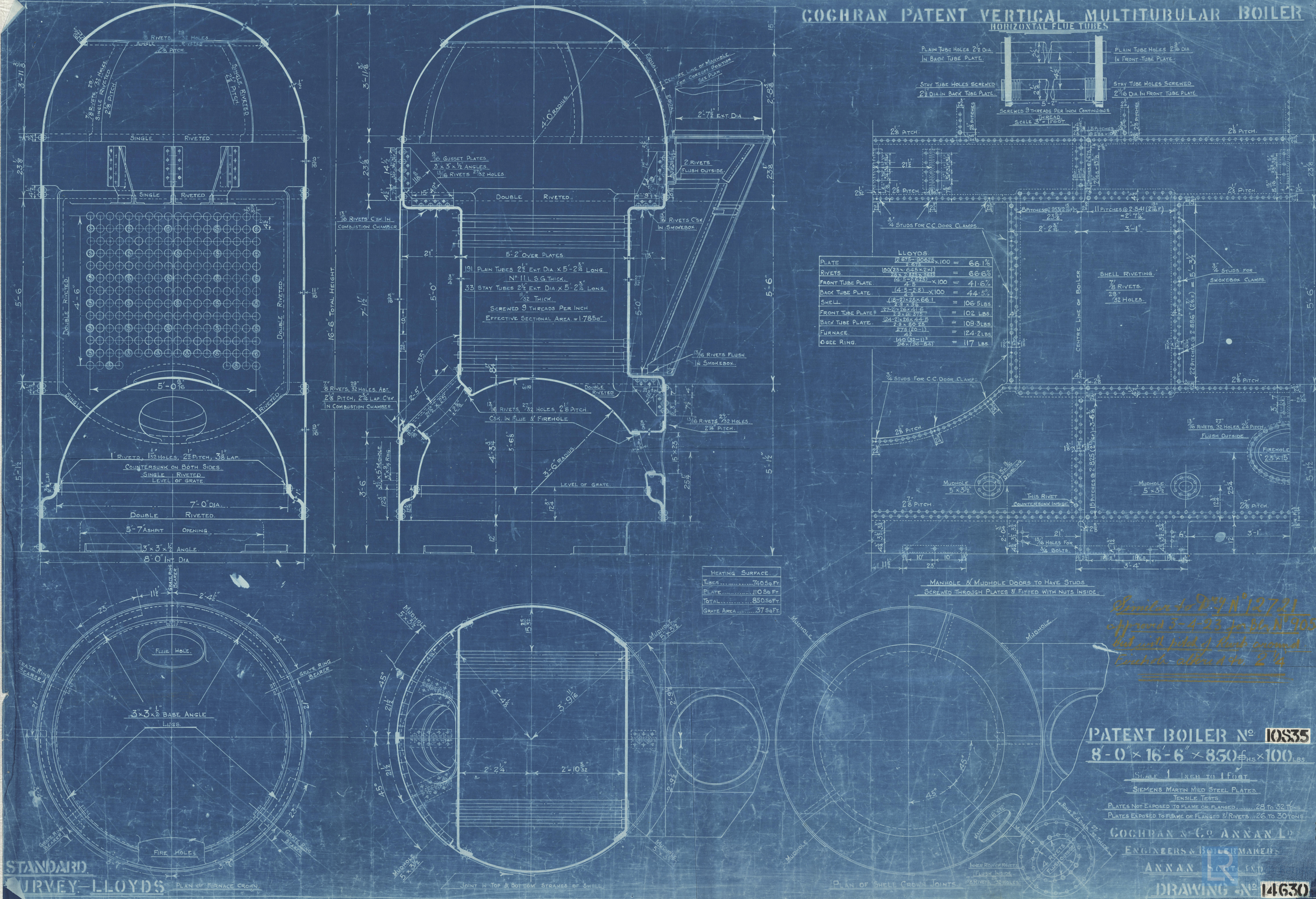
PLAN OF FURNACE CROWN

JOINT IN TOP & BOTTOM STRAITS OF SMOKE

PLAN OF SHELL CROWN JOINTS

INNER ROW OF RIVETS
FLUSH INSIDE
1/2" RIVETS, 32 HOLES

INNER ROW OF RIVETS
FLUSH OUTSIDE
1/2" RIVETS, 32 HOLES



COCHRAN & CO., ANNAN, LD.

Bailer No. 10835.

Drawing No. 14630.

WP. 100 lbs.

GLASGOW REPORT No 49103

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Foundation