

COCHRAN PATENT VERTICAL MULTITUBULAR BOILER.

HORIZONTAL FLUE TUBES

COCHRAN & CO ANNAN LD.,

ENGINEERS & BOILERMAKERS

ANNAN, SCOTLAND.

NOTE: FOR DETAIL OF
RIVETING ALONG
MIDDLE PLATE &
TOP BELT ON OPPOSITE
SIDE SEE DR. NO. 11810.

HEATING SURFACE	
TUBES	273 Sq. Ft.
PLATE	77 "
TOTAL	350 *
GRATE AREA	18.7 "

LLOYDS			
PLATE	$2'6" - 3437'S$ $2'6"$	$\times 100$	$= 67.5\%$
RIVETS	$2'x.5591x.85$ $2'7.8 \times .4637'S$		$= 72.7\%$
FRONT TUBE PLATE	$4 - 2.59 \times 7.5$ 4		$= 35.2\%$
BACK TUBE PLATE	$4 - 2.5 \times 100$ 4		$= 37.5\%$
SHELL	$20.5 \times (7.5 \times 2) \times 67.5$ 72		$= 105 LBS$
FRONT TUBE PLATE	$20.5 \times (2.5 \times 2) \times 35.2$ 67.75	$\times \frac{26}{28}$	$= 103.8 LBS$
BACK TUBE PLATE	$20.5 \times 10 \times 2 \times 37.5$ 57.25	$\times \frac{26}{28}$	$= 105.9 LBS$
FURNACE	$1250 \times (8 - 2)$ 60		$= 125 LBS$
Ogee Ring	516×13 $72 \times (72 - 60)$		$= 100.9 LBS$

NOTE: CARE TO BE TAKEN THAT HOLES IN VERTICAL FLANGE OF
BASE ANGLE CLEAR THE HOLDING DOWN BOLTS IN
HORIZONTAL FLANGE

PATENT BOILER N^{OS} ~~8025~~

~~8026 - 8027 - 8028.~~

6'-0" x 13'-6" x 350^{lb} x 100 LBS.

— SCALE 1 INCH TO 1 FOOT —

8467 G.O. 5175
Re 11932 CA 5180
Re 11931
Re 11932

~~8468~~ G.O. 5205
Re 11933 CA 5185
Re 11934

~~8469~~ G.O. 5155
Re 11930 CA 5185
Re 11930

SIEMENS MARTIN MILD STEEL PLATES

TENSILE TESTS:-

PLATES NOT EXPOSED TO FLAME OR FLANGED	28 TO 32 TONS
PLATES EXPOSED TO FLAME OR FLANGED EXCEPT FURNACE CROWN	26 TO 30 TONS
FURNACE CROWN	26 TO 29 TONS

DRAWING N° 11799.

SURVEY:- LLOYDS.

W1020-0249

COCHRAN & CO. LIMITED LD.

Boiler No. 8467

Drawing No. 11799.

100 lbs per sq. inch.

Mark on boiler:—

No 15411
Lloyds Cert
200 lbs
h.p. 100 lbs
P.M.C.A. 6/8/20

GLASGOW REPORT No.

40259.
Bel rept No. 9147.

Recd 11/8/20

517
H. W. P.
RETAIN



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Foundation