

COCHRAN & CO. ANNAN LTD.
ENGINEERS & BOILERMAKERS
ANNAN, SCOTLAND

COCHRAN COMPOSITE BOILER No. 133278
8'-0" DIA. x 17'-9" HIGH x 1053 lbs. x 120 lbs. W.P.

DETAILS:

- DETAIL OF THINNING OF BACK TUBE PLATE & FLUE PIPE FLANGE:** NOT TO EXCEED 3/16" THICK.
- DETAIL OF WELDING OF UPPER END OF JOINT OF FLUEPIPE TO FURNACE:** 2 RUNS OF N° 10.

MANUFACTURING SPECIFICATIONS:

- PLAIN TUBE HOLES 2" DIA. IN BACK TUBE PLATE
- PLAIN TUBE HOLES 2 1/4" DIA. IN FRONT TUBE PLATE
- PLAIN TUBE HOLES 1 1/2" DIA. IN BACK TUBE PLATE
- PLAIN TUBE HOLES 1 1/4" DIA. IN FRONT TUBE PLATE
- STAY TUBE HOLES TAPPED 2" DIA. IN BACK TUBE PLATE
- STAY TUBE HOLES TAPPED 2 1/4" DIA. IN FRONT TUBE PLATE
- STAY TUBE HOLES TAPPED 1 1/2" DIA. IN BACK TUBE PLATE
- STAY TUBE HOLES TAPPED 1 1/4" DIA. IN FRONT TUBE PLATE

WEIGHTS & MEASUREMENTS:

SECTION	ITEM	WEIGHT (LBS.)
TOP & BOTTOM	PLATE	3125 - 1.0312 x 100 = 66.8%
	RIVETS	23 x 835 x 2 x 1 = 66.27%
	SHELL	21-2 x 28 x 66-8 = 127.5 LBS
	PLATE	3135 - 1.031 x 100 = 67.3%
SHELL MIDDLES	RIVETS	23 x 835 x 2 x 1 = 53.9%
	SHELL	(26-2) x 28 x 53-9 = 130 LBS
	FURNACE CROWN	275 (23-1) = 144.1 LBS
	Ogee Ring	140 (33-1) = 124.4 LBS
FRONT TUBE PLATE	2-625 - 1.812 x 100 = 30.9%	
	BACK TUBE PLATE	2-625 - 1.5 x 100 = 42.8%
	FRONT TUBE PLATE	(40-2) x 26 x 30-9 = 122 LBS
	BACK TUBE PLATE	(40-2) x 26 x 42-8 = 196 LBS
FRONT TUBE PLATE	3-187 - 2 x 100 = 33.3%	
	BACK TUBE PLATE	3-187 - 2 x 100 = 37.2%
	FRONT TUBE PLATE	(40-2) x 26 x 33-3 = 126.2 LBS
	BACK TUBE PLATE	(40-2) x 26 x 37-2 = 161.3 LBS

SCALE: 3/4" TO 1 FOOT

SIEMENS MARTIN MILD STEEL PLATES - BOILER QUALITY

PLATES NOT EXPOSED TO FLAME OR FLANGED

28 TO 32 TONS

26 TO 30 TONS

DRAWING No. E.33887

COCHRAN & CO., ANNAN, LD

Boiler No. 14246

Drawing No. E.33887

WP-120116

GLASGOW REPORT No 60410

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