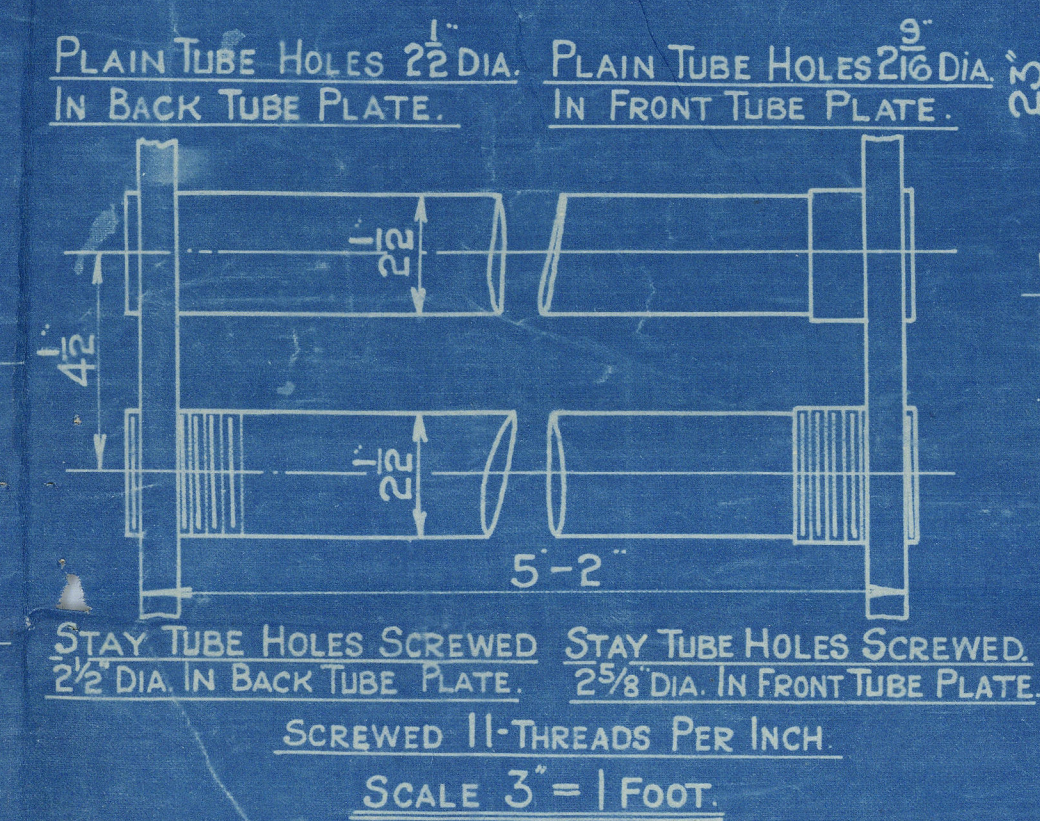


HORIZONTAL FLUE TUBES.



HEATING SURFACE	
TUBES	740 Sq. Ft.
PLATE	110 " "
TOTAL	850 " "
GRATE AREA	37 " "

	LLOYDS		
PLATE	302-26875	x 100 =	67.9%
	3-02		
RIVETS	2 x 73-708XRE		69.4%
	304 x 53		
FRONT TUBE PLATE	4.5 x 255875	x 100 =	42.3%
	4.5		
BACK TUBE PLATE	4.5	x 100 =	44.4%
	4.5		
SHELL	20.5 (9.5-2) 679		107.1 LBS
	20.5		
FRONT TUBE PLATE	20.5 (16.6-2) 423	x 100 =	100.6 LBS
	20.5		
BACK TUBE PLATE	20.5 (16.6-2) 44.4	x 100 =	104.9 LBS
	20.5		
	250 (10-2)		
FURNACE	34		193.1 LBS
	34		
QSEE RING	516X157		
	96X (98-54)		114.5 LBS

	BUREAU VERITAS	
SHELL	31400 x 679 (593-04)	= 122 LBS.
RIVETS.	2 (2 x 7/8 x 5/8) 96 x 5-04 x 5	= 108 LBS.
FRONT TUBE PLATE	10400 x 843 (4-5-2593) 30 x 208 x 4-5	= 122-6 LBS.
BACK TUBE PLATE	10400 x 75 (4-5-25) 30 x 208 x 4-5	= 114-7 LBS.
FURNACE.	600 (10-2) 48	= 114 LBS.

**BRITISH CORPORATION**

PLATE	$\frac{3102-98875}{3 \times 2} \times 100 = 67.9\%$
RIVETS	$\frac{3 \times 74703 \times 25}{3102-98875} \times 100 = 67.9\%$
FRONT TUBE PLATE	$\frac{45-25}{45-9875} \times 100 = 42.5\%$
BACK TUBE PLATE	$\frac{45-25}{45} \times 100 = 44.4\%$
SHELL	$\frac{13 \times (98.5-11) \times 4.3}{98.5} = 131BS$
FRONT TUBE PLATE	$\frac{13 \times (83.5-11) \times 4.3}{83.5} = 148BS$
BACK TUBE PLATE	$\frac{13 \times (83.5-11) \times 4.4}{76.25} = 177BS$
FURNACE	$\frac{1250 \times (10-2)}{76.25} = 199BS$

BOARD OF TRADE		
PLATE	3-02 X 3-0875	X100 = 679%
RIVETS	23 X 1/278 7/8 X 2 1/4 28 X 1-034 X 1/8875	X100 = 73 %
FRONT TUBE PLATE	4-5 X 2 1/2 3/4	X100 = 42-3%
BACK TUBE PLATE	4-5 X 2 1/2	X100 = 44-4%
SHELL	28 X 2 2/4 0 X 67 9 X 1/8 3/75	= 107.18%
FRONT TUBE PLATE	26 X 2 1/2 0 X 4 1/2 X 1/8 3/75 26 X 2 1/2 0 X 4 1/2 X 1/10	= 135.1%
BACK TUBE PLATE	26 X 2 1/2 0 X 4 1/2 X 1/10 26 X 2 1/2 0 X 4 1/2 X 1/10	= 164.1%
FURNACE	10 000 X 5 1/2	= 104.18%

Similar to Dr. N: 11138. Approved 22-5-16. but with  
Manhole on Opposite Side.  
For Approval.

PATENT BOILER N<sup>o</sup> 8544

$$\underline{8'-0" \times 16'-6" \times 850 \# \times 100 \text{ LBS.}}$$

SIEMENS MARTIN MILD STEEL PLATES.

### PLAN OF FURNACE CROWN.

### PLAN OF CROWN JOINTS.

STANDARD.  
SURVEY- LLOYDS. & BRITISH CORPORATION.

DRAWING R 12258  
Foundation  
W899-0018



COCHRAN & CO., ANNAN, LD.

Boiler No. 8544

Drawing No. 12258

100lbs per sq inch

Similar to 11138.  
appd. 22/5/16

Mark on boiler

no 15630  
Lloyds Fat  
200lbs  
HP. 100lbs  
P.M.C.A. 17/12/20

GLASGOW REPORT No. 40695



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Lloyd's Register  
Foundation

W699-0018