PALLION ENGINE WORKS

BOILERS

TRACING No 1469

1 OFF RIGHT
1 OFF LEFT

Memoranda: Working Pressure 160 lbs per Sqr inch.
Test " 320 " " "
All rivet holes in Shell to be drilled on place after bending

Heating Surface

Tubes	2612·8 Sqr Feet
Furnaces & Combustion Chambers	414·15 " "
Tube Plates	123·4 " "
Total	3150·35 Sqr ft
Grate Surface, with 5-6" bars	103·125 Sqr ft
Steam Capacity	6·5 cubic feet

In each Boiler

Plan of Shell Riveting

Longitudinal Seams

Butt Straps, inside 1⅝ thick
" " outside ⅞ "

Circumferential Seams end D

Seam	Amount of Grade
Sectional area of Plate	0·37
" Rivets	1·9·335

	B's of Grade	Lloyds
Sectional area of Solid Plate	100	100
" " " Plate between holes	85·0434	85·0434
" " " Rivets	104·2023	88·5219
" " Plate on 4½ inter liner Rivet	84·2334	81·3332

Section thro' wing furnace, Showing arrangement of Stays between the Combustion Chambers Sides & Shell of Boiler

Circumferential Seam

Circumferential Seam

Longitudinal Seams

Double riveted
1 rivets 2¾ pitch

Single riveted
⅞ rivets 2½ pitch

Double riveted
⅞ rivets 2¾ pitch, 1⅛ lap

Double riveted
⅞ rivets 2¼ pitch, 1⅛ lap

All Plates Rivets & Stays are of Steel
Tubes of Iron

Area of	3 Stay	6 threads per inch at bottom of thread	5·939
"	2¾	6 " " " " "	4·905
"	2½	6 " " " " "	3·976
"	2¼	6 " " " " "	3·141
"	2	6 " " " " "	2·371
"	1¾	10 " " " " "	1·2213
Area of	3½	Tubes 9 threads per inch at bottom of thread	5·1·456
"	3¼	" " " " "	4·915
"	3	" " " " "	2·563

W. Doxford 1869
July 1892

WM DOXFORD & SON'S
SUNDERLAND
SHIPBUILDERS & ENGINEERS

FORWARD

AFT

CONTRACT No 193

SLD968-0167

S.S. Mary Beyts.
W. Doxford & Sons
No. 193

Sunderland Regt.
No. 15428
21-3-90

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