

R. W. G.

A circular purple ink stamp. The outer ring contains the text "JOHN DICKINSON & SONS, LIMITED" at the top and "SUNDERLAND" at the bottom. Inside the ring, the word "ENGINEERS" is centered. Below it, "TRAODING NO." is printed, followed by the handwritten number "9694". Below that, "DATE" is printed, followed by the handwritten date "26-3-14".

Technical drawing of a plain tube. The drawing shows a side view of a tube with a diameter of $\frac{3}{4}$ inch and a wall thickness of 3 inches. The length is indicated as 630 off 7' 10" long. The text "Plain Tubes N° 8 r. g. - 4-07 m" is written across the middle of the tube.

306' long 7'10" overhang

Stay Tubes $\frac{5}{16}$ -7.94" thick. Screwed 10 threads per inch. Eff. area 2.2433 in²

STAYS						
Diam.	TURNS PER INCH	EFF. DIA.	EFF. AREA	TENSILE STRENGTH		WE INCH BOLTS
				PER SQ. INCH	PER SQ. INCH	
1 1/2"	q	1.357	1.45	26	408	
1 5/8"	q	1.483	1.73	26	70	
1 3/4"	q	1.6078	2.031	30	472	
2"	q	1.8577	2.69			
2 1/4"	b	3.203b	3.25	27	425	
3 3/8"	b	3.161b	7.85	30	70	
					472	

Front & back seams double riveted $\frac{13}{16}$ -30-16 $\frac{1}{2}$ " rivet holes. $3\frac{1}{2}$ "-88-9 $\frac{1}{2}$ " pitch. $5\frac{3}{8}$ "-136-5 $\frac{1}{2}$ " lap.
 6m Cham. bott. longitudinal seams double riveted $\frac{15}{16}$ "-23-8 $\frac{1}{2}$ " . $2\frac{1}{2}$ "-66-6 $\frac{1}{2}$ " . 4"-101-6 $\frac{1}{2}$ " .
 6m Chamber & furnace seams single riveted $\frac{16}{16}$ "-23-8 $\frac{1}{2}$ " . $2\frac{1}{2}$ "-63-5 $\frac{1}{2}$ " . $2\frac{1}{2}$ "-63-5 $\frac{1}{2}$ " .

Manhole 16' x 12' - 406.4 x 304.8 mm
Stiffening Ring 8 $\frac{3}{4}$ " x 1 $\frac{1}{2}$ " - 222.25 x 32.54 mm
Rivet Holes 1 $\frac{3}{8}$ " - 34.92 mm diam.

Steel Screened Stays (Nuttet)
 $\frac{1}{2}'' = 38\% \text{ diam.}$
 $\frac{1}{8}'' = 41.27\% \text{ marked A}$
 $\frac{1}{4}'' = 44.4\% \text{ B}$

SUNDERLAND.

J. Dickinson & Sons^{ltd}

Main Boilers No 782
(3 off)

for

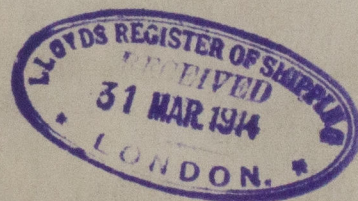
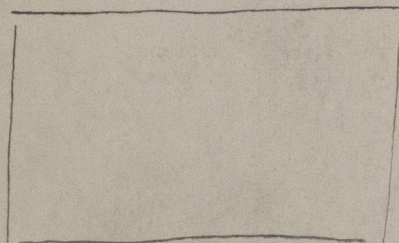
Bartlam & Sons Ltd

No 234

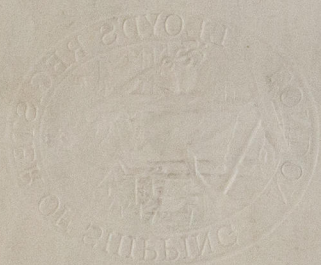
S.S. "Exford"

Sld Rpt No 26266

Mark on boilers:—



RETAIN



W905-0116.



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