

To Lloyd's requirements for a working pressure of 180 lbs. per square inch
All plates, rivets, stays & girders of steel Tubes of Wrought Iron
SCALE - ONE INCH = ONE FOOT Rm &

Tubes of Wrought Iron

R. M. G.

7\$9 3 OFF

Nov. 26th - 14

Intended for Messrs Short Bros & 391.

Front & back seams double riveted $1\frac{3}{16}$ rivet holes, $3\frac{1}{2}$ pitch $5\frac{3}{8}$ lap
 Ctn. Chr. longitudinal " " " $\frac{15}{16}$ " " $2\frac{1}{8}$ " 4 "
 Ctn. Chr. & Tunnac seams single riveted $\frac{15}{16}$ " " $2\frac{1}{2}$ " $2\frac{1}{2}$ "

Longitudinal seams fitted with double butt straps
Straps $\frac{1}{8}$ " thick Rivet Holes $\frac{5}{16}$ " dia.

Tensile strength of shell plates, butt straps & manhole stiffening rings 29½ to 33 tons per square inch.

Tensile strength of girders 29 to 33 tons per sq. inch

Tensile strength of all other plates 26 to 30 tons per sq. in.

| STAYS. | | | | | |
|---|--------|----------------------|-----------|-----------|--------------------------------------|
| TENAIL & STRENGTH Tons Per Sq. Inch. | DIAM. | THREADS Per Inch. | EFF. DIA. | EFF. AREA | TENS. STRENGTH Tons Per Sq. Inch. |
| 26 | 1 1/4" | 9 | 1.6078 | 2.031 | 26 |
| To | 1 1/2" | 9 | 1.7327 | 2.355 | 26 |
| 30 | 2" | 9 | 1.8577 | 2.69 | 30 |
| 27 | 2 1/2" | 6 | 2.2868 | 4.13 | 27 |
| To | 3" | 6 | 2.4218 | 6.70 | 27 |

Stay Tubes $\frac{5}{16}$ thick, screened 10 threads
per inch Eff area 2.2433 \square "

Heating Surface in
3 Boilers = 7418 sq

30/11/14

MANHOLE 16" x 12"
Stiffening Ring 8 $\frac{5}{8}$ " x 1 $\frac{3}{16}$ "
Rivet Holes 1 $\frac{5}{16}$ " dia.

$\frac{3}{14}$ Screwed Stays Nutted
 $\frac{7}{8}$ Screwed Stays Nutted (marked)

789

SUNDERLAND.

J. Dickinson & Sons Ltd.

No. 789 (3 off)

FOR

Short Bros Ltd

S.S. no. 391

W. P. 180 lbs □

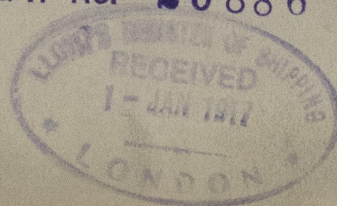
Mark on Boilers :-

No. 3307
LLOYD'S TEST
360 lbs.
22.7.15 J.T.F.



J. Birchleaf

SUNDERLAND RPT. NO. 26886



W613-0050



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Lloyd's Register
Foundation