

29:6:04

NOTE: ALL PLATES, STAYS AND RIVETS TO BE MADE OF SIEMENS
MARTIN STEEL. THE SHELL PLATES AND BUTT STRAPS TO
BE OF 28 TO 32 TONS TENSILE STRENGTH PER SQUARE
INCH. ALL RIVET HOLES TO BE DRILLED IN PLACE AFTER
THE PLATES ARE BENT. ALL PLANGED PLATES TO BE
ANNEALED AFTER PLACING.

THE SCREW STAYS ARE $1\frac{1}{4} \times 1\frac{1}{2}$ EFFECTIVE DIA. SCREWED INTO BOTH PLATES
NUTTED AT EACH END. THE TUBES ARE OF IRON. THE STAY TUBES ARE $2\frac{3}{8}$
INTERNAL DIA. $\frac{1}{4}$ THICK EFFECTIVE. THE ORDINARY TUBES ARE 3" EXT DIA.
N^o 8. L.S.G. THICK. A MANHOLE IN SHELL 16" DIA. WITH SHORTER
AXIS LONGITUDINALLY & A DOUBLING PLATE 7' 2" 4" \times 3" THICK
FITTED ROUND IT.

DOUBLING PLATE ROUND MANHOLE
 $\frac{3}{32}$ THICK

PLAN OF SHELL RIVETING
LONGITUDINAL STAYS 1" HOLES $7\frac{1}{2}$ PITCH
PLATE = 85-5 $\frac{1}{8}$ RIVETS 91 $\frac{1}{4}$ LLOYDS

DIMENSIONS

LENGTH OF FIRE BARS	4-6
AREA OF FIRE GRATE	28
DIA. OF TUBES OUTSIDE	3
LENGTH OF TUBES OVER PLATES	6-4
N ^o OF TUBES	178
AREA THROUGH TUBES	6.43
SURFACE OF TUBES	870
TOTAL HEATING SURFACE	1075
WORKING PRESSURE	180 LBS
DIA. OF SAFETY VALVE	

SHELL = $\frac{3}{32}$ THICK
INSIDE BUTT STRAP = $\frac{3}{32}$ THICK
OUTSIDE " = $\frac{3}{4}$
TENSILE STRENGTH OF SHELL PLATES
BUTT STRAPS DOUBLING PLATES
28 TO 32 TONS PER SQ. INCH

STEEL STAYS $2\frac{3}{8}$ DIA.
SCREWED 7 THREADS PER INCH
27 TO 32 TONS PER SQ. IN TENSILE STRENGTH

6-4 1/2 OVER PLATES
IRON ORDINARY TUBES 3" EXT DIA. N^o 8 L.S.G. THICK
SWELLED 1/2" AT FRONT END
IRON STAY TUBES 3" EXT DIA. $\frac{1}{4}$ " THICK EFFECTIVE
SCREWED AT ENDS TO $\frac{1}{4}$ " 3" DIA. 18 THREADS PER INCH
NUTS TO BE FITTED ON STAY TUBES AT FRONT
ENDS WHERE SHOWN.

FURNACES WELDED LONGITUDINALLY
2" STEEL STAY TAPPED IN AT
BACK END
2" STEEL STAY TAPPED IN AT
BACK END

ALL 1" STEEL SCREW
STAYS EXCEPT THOSE SHOWN
IN SECTION WHICH ARE $\frac{1}{2}$ " DIA.
ALL SCREWED 18 THREADS PER IN

INSIDE DOUBLING PLATE
 $\frac{3}{32}$ THICK RIVETED ON WITH
1" RIVETS

N^o A 87
STEEL BOILER

WORKING PRESSURE 180 LBS (LLOYDS)
SCALE 1" = 1 FT.

LLOYD'S REGISTER
OF SHIPPING
24 JUN 1904
+ HULL

4840 B
25.6.04
Lloyds.

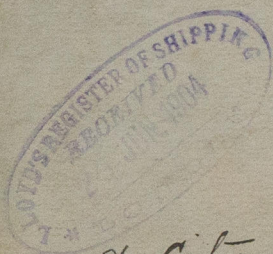
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Earle's S & E Co. Lr
- No A 87-

for Goble S & R. Co.
Spec No 71



Sp City of York
Hull Rpt. No. 16460



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Lloyd's Register
Foundation