

5448  
 5.44% 12/10/00  
 " 27/10/00  
 5.44% 25/10/00

## HEATING SURFACE

704 TUBES 22" EXT. DIAM X 7'-6" LONG = 3455.757  
6 FURNACES 42 1/2" MEAN DIA. X 7'-6" = 272.864  
TOP AND SIDES OF COMB. CHAMBER = 170.664  
BACK TUBE PLATES = 22.440  
FRONT " " = 67.575  
TOTAL H. S. IN ONE BOILER = 4049.300  
" " " " TWO BOILERS = 8098.600

<u>GRATE SURFACE</u>		\$
6 FURNACES 3'-4" DIA X 5'-0" BAR =		100
TOTAL IN TWO BOILERS =		200

$$\frac{H.S.}{G.S.} = 40.49, \quad \frac{T.S.}{G.S.} = 34.56$$

STEAM SPACE IN ONE BOILER FROM 9" ABOVE COMB. CHAMBER = 608  
WEIGHT OF WATER (FRESH) " " " " " = 374 T  
DRAUGHT AREA THROUGH THE TUBES = 16.36 sq

STEAM SPACE STAYS

STAYS MARKED  $\odot 2\frac{7}{8}$  DIA 6 THREADS EFF AREA = 5.557

" "  $\odot 3\frac{1}{4}$  " " " " " = 5.051

" "  $\odot 2\frac{1}{4}$  " " " " " = 3.431

ALL RIVET HOLES DRILLED IN PLACE.

<u>TENSILE STRENGTH OF SHELL PLATES</u>	<u>28 TO 32 TONS</u>
" " " OTHER "	<u>26 TO 30 "</u>

THICKNESS OF PLATES.	
SHELL	5/16
OUTER BUTT STRAPS	5/8
INNER " "	1/2
TOP FRONTS	1/16
FURNACE FRONTS	1
FRONT TUBE PLATES	3/8
BACK " "	15/16
TOP AND SIDES OF C.C	3/8
BOTTOM OF COMB. CHAMBER	5/8
FURNACES	5/8
FRONT DOUBLINGS	3/4
WASHERS	1"
GIRDERS	1"

PASSED LLOYDS

## MAIN BOILERS 2 OFF

14'-0" DIAM X 19'-0" LONG X 180 LBS. W.P. TO PASS LLOYDS SURVEY

TUBES TO BE OF IRON ALL OTHER PARTS STEEL

SCALE  $\frac{1}{4}'' = 1$  FOOT

# Nº ISO

W1241-0122



RECEIVED

Belfast  
Worham Clark & Co. S.S. 180  
Main Rulers  
S.S. City of Madrid  
LONDON  
- 2 NOV. 1900  
Bel 5296



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