

10:10:06

DIMENSIONS.

LENGTH OF FIRE BARS	
AREA OF FIRE GRATE	
DIAM OF TUBES OUTSIDE	3 1/2
LENGTH OF TUBES OVER PLATES	6' 4"
NO OF TUBES	164
SURFACE OF TUBES	284
TOTAL HEATING SURFACE	1110
WORKING PRESSURE	180

PARTICULARS OF RIVETING

SHELL:- LONGITUDINAL JOINT TO BE TREBLE RIVETED DOUBLE BUTT JOINT. HOLES DRILLED 1 1/2 DIA 7 PITCH.
CIRCUMFERENTIAL SEAMS TO BE DOUBLE RIVETED LAP JOINTS. HOLES DRILLED 1 1/2 DIA 3 1/4 PITCH.

FURNACES:- TO BE SINGLE RIVETED AT BACK & BOTTOM HALF OF FRONT. TOP HALF OF FRONT TO BE DOUBLE RIVETED.

COMB CHAMBERS:- BOTTOM SIDES TO A LEVEL OF FURNACE TOPS TO BE DOUBLE RIVETED, REST TO BE SINGLE RIVETED.

END PLATES:- CROSS SEAMS TO BE DOUBLE RIVETED.

MANHOLE IN SHELL 16 X 12
LINED INSIDE WITH 1/2 PLATE 7 BROAD.

GIARDER STAYS:- DOUBLE 1 IN 3/4 THICK 9 DEEP 8 1/2 PITCH FITTED WITH 3 SUPPORTING BOLTS 1 3/4 DIA 2.07 EFF AREA 8 1/2 PITCH.

DOUBLING PLATE:- TO BE FITTED BETWEEN TUBE NESTS.

COMB CHAMBERS:- TO BE FITTED WITH STAYS 1 3/4 DIA 1 3/4 EFF DIA 2.07 EFF AREA.

ALL SCREWED STAYS
TO BE SCREWED INTO BOTH PLATES & FITTED WITH NUTS AT BOTH ENDS.

BUTT STRAPS 1/2 THICK

PERCENT OF JOINT
PLATE - 85.26%
RIVETS - 88.69%

STEEL STAYS 3" DIA 2 1/2 EFF DIA 6.21 EFF AREA SCREWED INTO BOTH PLATES. FRONT ENDS 3/4" FITTED WITH 3/4 NUTS. BACK ENDS 3/4" FITTED WITH 3 NUTS. INSIDE NUTS 1 1/2 THICK. WASHERS 3 DIA 3/8 THICK.

SHELL PLATES 29 TO 32 TONS TENSILE

6' 4" OVER PLATES

94 PLAIN TUBES - 3/4 OUT DIA N 8 BWG SWELLED 1/8" AT FRONT END
70 STAY TUBES 7/8 THICK IN BODY SCREWED AT ENDS TO 3 1/4 DIA 1/4 EFF THICKNESS

LONGITUDINAL JOINT WELDED

HOLMES WITHDRAWABLE FURNACES

STAYS - MARKED © TO BE BETWEEN COMB CHAMBERS AT CENTRE

STAYS - MARKED ○ TO BE BETWEEN COMB CHAMBERS & SHELL

STEEL STAY 1 1/4 DIA 1 3/4 EFF DIA 2.07 EFF AREA

STAYS MARKED THUS TO BE 1 1/4 DIA

STUDS FOR ZINC PLATES TO BE FITTED WHERE REQUIRED

12' 6" Inside Door

12' 6" INSIDE X 10' 0" LONG
180 LBS WP

STEEL BOILER NO 829

CHARLES D. HOLMES & CO
ENGINEERS & BOILER MAKERS
HULL 20.6.03

LLOYD'S REGISTER
OF SHIPPING
1011100
HULL

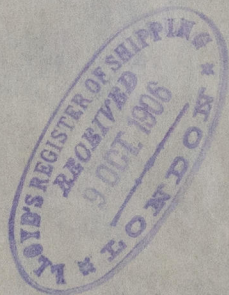
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Charles D. Holmes
No's 829

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180 lbs

Washington
Hull Report. No. 18918



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