

A & B TYPE

THE NORTH EASTERN MARINE ENGINEERING CO LTD

SUNDERLAND.

BOILER

SCALE = 1 INCH TO A FOOT

SCHEDULE 'L'

BUTT STRAPS INSIDE 1 1/2" THK OUTSIDE 1 1/2" THK

RIVET HOLES 1 1/2" DIA

PLATE 1 1/4" THICK
RIVET HOLES 1 1/2" DIA
PITCH 9 3/8"

PLATE SECTION = 86.49%
RIVET " = 85 % (LLOYD'S)

RIVET HOLES 1 1/2" DIA

SURVEY:- SEE LIST OF CONTRACTS BELOW		
SHELL (LLOYD'S)	22 (20-2) 85	181 LBS PER " "
" (BRITISH CORP)	20.4 (20-1) 86.44	180.2 " " "
WORKING PRESSURE	180	" " " "
TEST	360	" " " "
HEATING SURFACE ON TUBES 2100 SQ FEET		
" " OTHER PARTS	500	" " " "
" TOTAL	2600	" " " "
EX: FRONT TUBE PLATES 2556 " "		
EFFECTIVE AREA OF STAYS		
2 3/4" STAY TUBES 1/2" THK 9 THREADS PER INCH	1.79	SQ INCHES
2 3/4" " " " " " " " " " " " "	1.36	" " "
3 3/8" MAIN STAYS	6	7.98 " " "
2 3/4" " " " " " " " " " " " "	5.05	" " "
2 3/4" " " " " " " " " " " " "	3.26	" " "
2" SCREWED " " " " " " " " " " " "	2.71	" " "
1 1/2" " " " " " " " " " " " "	2.36	" " "
ALL PLATES, RIVETS & STAYS - STEEL		
TUBES - WROUGHT IRON		
HOLES TO BE DRILLED IN PLACE AFTER BENDING.		
TENSILE STRENGTH OF SHELL PLATES & BUTT STRAPS 28 TO 32 TONS		
" GIRDER " & MAIN STAYS 28 TO 32 TONS		
" OTHER PLATES, STAYS ETC. 26 TO 30 " "		

MANHOLE 16" x 12" IN BACK

3 1/8" DIA STAYS - 3 1/2" DIA SCREWS - 6 THREADS PER INCH

1 1/8" SCREWED STAYS WITH NUTS

PLATES 7" THICK

7'-8" BETWEEN TUBE PLATES

271. SMOKE TUBES 2 3/4" EXT DIA: NO Q.B.W.G. THICK.
32. STAY " 2 3/4" " 5/16" THK MARKED 'SS'
77. " " 2 3/4" " 1/2" THK MARKED 'S'
380 TOTAL TUBES IN ONE BOILER.

STAY TUBES SWELLED 1/4" AT FRONT END & SCREWED THROUGH BOTH PLATES (9 THREADS PER INCH).
PLAIN TUBES SWELLED 1/8" AT FRONT END.

THINNED TO 1/2" FOR EXTENT OF TOP RADIUS

DEIGHTON'S SECTION OF FURNACE

GRATE 5'-6" LONG 633 lb.
SAFETY VALVES DIA.

11'-8 5/16" TOTAL LENGTH

ALL SCREWED STAYS
SCREWED THRO BOTH PLATES
9 THREADS PER INCH

1" RIVET HOLES 4" PITCH DOUBLE RIVETED

STAYS SHOWN WITH NUTS 2" DIA.
WITH NUTS ON BOTH ENDS

OTHER STAYS 1 1/2" DIA WITH NUTS ON BOTH ENDS

3 BOILERS THUS
FOR EACH CONTRACT

CONTRACTS

2313	LLOYD'S SURVEY	2400	BRITISH CORP TH SURVEY
2302	LLOYD'S SURVEY	2410	BRITISH CORP TH SURVEY
2372	LLOYD'S SURVEY	2411	BRITISH CORP TH SURVEY
2405	LLOYD'S SURVEY	2365	LLOYD'S SURVEY
2406	LLOYD'S SURVEY	2368	LLOYD'S SURVEY

DRAWING N° 6612

NEM 2368

A TYPE

Main Bolers
for

R. Thompson's 3/2

8/58

RECEIVED

No. 3607
LLOYD'S TEST
360
GAH W.P. 180 LBS
11.9.18

Shank
B/L

No. 3610
LLOYD'S TEST
360
GAH W.P. 180 LBS
17.9.19

Center
B/L

No. 3612
LLOYD'S TEST
360
GAH W.P. 180 LBS
24.9.19 L.C.D.

Lahore

SUNDERLAND RPT. NO. 27791



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Lloyd's Register
Foundation

W1228-0007

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