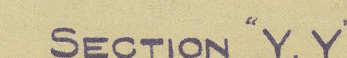
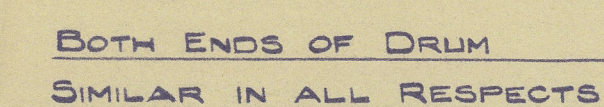


ALL SHARP EDGES TO BE
TAKEN OFF HOLES IN TUBE
PLATE ON OUTSIDE &
INSIDE OF PLATE.

ENDS OF ALL TUBES TO BE
ROUNDED OFF TO A SEMI-
CIRCULAR FORM AS SHOWN.



MANHOLE 16"x12" AT EACH END
OF DRUM FOR CORRECT
POSITION SEE TRANSVERSE
SECTION. M^C NEIL'S DOORS
TO BE FITTED.



STOP VALVE END
OF BOILER.

TESTS OF MATERIAL - SOLID FORGED SHELL

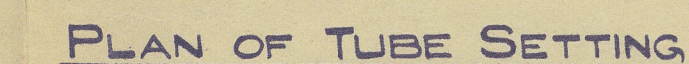
SHELL TO BE MADE FROM SOLID FORGED MILD STEEL.
THE ULTIMATE TENSILE STRENGTH TO BE BETWEEN 28 AND 32 TONS PER SQ IN FOR
THE WATER DRUMS, & TO BE DETERMINED FROM BRITISH STANDARD TEST PIECES
OF STANDARD DIMENSIONS "C", "D" OR "E". THE MINIMUM ELONGATION TO BE
SUCH THAT THE ULTIMATE TENSILE STRENGTH IN TONS PER SQ IN PLUS THE
ELONGATION PER CENT IS NOT LESS THAN 57.

THE BEND TEST PIECES ARE TO BE MACHINED TO A RECTANGULAR SECTION 1" WIDE BY $\frac{3}{4}$ " THICK WITH THE EDGES ROUNDED TO A RADIUS OF $\frac{1}{16}$ ". THEY ARE TO BE BENT OVER THE THINNER SECTION. THE BEND TEST PIECES ARE TO WITHSTAND WITHOUT FRACTURE BEING BENT COLD THRO' AN ANGLE OF 180° , THE INTERNAL RADIUS OF THE BEND BEING NOT GREATER THAN $\frac{1}{4}$ ".

TEST PIECES TO BE TAKEN FROM EACH END OF EACH DRUM.
END PLATES- DRUM END PLATES TO BE PRESSED HOT & TO HAVE AN ULTIMATE
TENSILE STRENGTH OF 26 TO 30 TONS PER SQ. IN. WITH AN ELONGATION OF 23%
IN 8" TEST PIECE.

RIVETS:- TO BE MADE FROM MILD STEEL HAVING AN ULTIMATE TENSILE STRENGTH OF 26 TO 30 TONS PER SQ. INCH WITH AN ELONGATION OF 25% IN BRITISH STANDARD TEST PIECE "B".

SURVEY:- TO LLOYD'S SURVEY, & TO THE ENTIRE SATISFACTION OF THE SILVER LINE'S REPRESENTATIVE.



VIEW LOOKING ON OUTSIDE OF TUBE PLATE

SCALE:- $1\frac{1}{2}" = 1 \text{ FOOT}$

WORKING PRESSURE = 400 LBS/D"

DESIGNED PRESSURE = 450 LBS/D"

TEST PRESSURE = 725 LBS/D"

THIS DESIGN HAS BEEN PREPARED
BY MESSRS YARROW & CO LTD FOR
USE BY THE WALLSEND SLIPWAY
& ENGINEERING CO LTD FOR THEIR
JOB NO 932, FOR THE SILVER
LINE.

ORDER N ^o	REMARKS
1714	1-OFF AS DRAWN. 1-OFF TO OPPOSITE HAND.

DETAIL OF WATER DRUM (13 Row)

SCALES:- HALF SIZE & AS MARKED.

15. M. 16-11-37
J. Lloyd's
Nº 22645

№ 55042

ВЪЗМЯТО

ВЪЗМЯТО (13 КОМ)

22645

ОПЛАТ

ВЪЗМЯТО



© 2019

Lloyd's Register
Foundation

(6)

THE WALLSEND SLIPWAY
& ENGINEERING CO. LTD.

Narrow Type water Tube Boilers.

Contract 932

W.P. 450 lbs

6

Water drum (13 Row).

Paint no 22645

for
J.L. Thompson Plans no 588

S.S. "Silverlaural"

S.S. "Silverlaural" SLD 32593
NEWCASTLE ON TYNE.

Report No. 97250.

W261-0302



© 2019

Lloyd's Register
Foundation