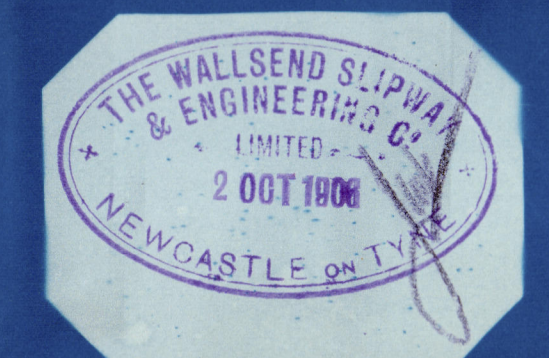


5:10.06



# BOILER CONTRACT N<sup>o</sup> 635

MESS<sup>rs</sup> SIR W.G. ARMSTRONG WHITWORTH & CO<sup>Y</sup> LTD. S.S. N<sup>o</sup> 493

TO BE CONSTRUCTED TO PASS BOARD OF TRADE, LLOYD'S & HAMBURG LAW REQUIREMENTS

3. OFF THIS

SCALE 1" = 1 FT.

25.4% = 304.79%

4 PIN 19.05%

MATERIAL MANUFACTURED BY

PLATES	STEEL
RIVETS	"
STAYS	"
TUBES	IRON

SPARE GEAR  
6% OF BOILER TUBES

## PLAN OF SHELL RIVETING

STRENGTH OF JOINT

PLATE = 85.43%

RIVET = 85.95% B. OF TRADE

" = 87.6% LLOYD'S

STRESS ON RIVET = 6.85 KILOS. PER SQ. IN. H.L.W. 44.077 TO 50 K.G. PER Q.

TENSILE STRENGTH OF SHELL PLATES & BUTT STRAPS 28 TO 32 TONS PER SQ. IN.

SHELL HYDRAULIC RIVETED WHERE POSSIBLE

ALL HOLES DRILLED IN PLACE AFTER BENDING

SHELL PLATES 1/8" THICK RIVET HOLES 1/8" DIA. 9/16" PITCH

CIRCUMFERENTIAL SEAMS DOUBLE RIVETED 1/2" DIA. RIVETS 4.784 PITCH

INSIDE BUTT STRAP 1/2" THICK 3.174" (108 PITCHES)

OUTSIDE " " 1/8" " 3.337" 65.88%

INTERNAL & FLANGING PLATES TENSILE STRENGTH 26 TO 29 TONS

2 1/2" DIA. STEEL STAYS SCREWED 8. THREADS PER INCH

DOUBLE GIRDERS 3" THICK 8 1/2" DEEP FOR WING

340 IRON TUBES 2 1/2" OUTSIDE DIA.

PLAIN TUBES & W.G. SWELLED 1/8" AT FRONT END

STAY 7/8" THICK MARKED S SCREWED INTO BOTH TUBE

" " " " " PLATES 7. THRS PER IN.

2'-0" BETWEEN TUBE PLATES

MORISON'S SUSPENSION FURNACES

TENSILE STRENGTH 26 TO 29 TONS

40.747 TO 45.67 K.G. PER Q.

SCREWED THRO. BOTH PLATES & FITTED WITH NUTS AT EACH END

SCREWED THRO. STEEL STAYS SCREWED 7. THREADS MARKED

3'-2" DIA. STEEL STAYS SCREWED 8. THREADS PER INCH

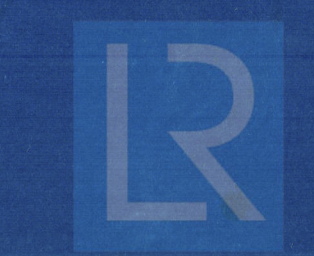
OUTSIDE NUT 2 1/2" DEEP

63.474%

16" x 12" MANHOLES FITTED WITH

M.S. NEIL'S DOOR

J.P.M.  
4/10/06  
4.10.06



W1132-0.162%



W1138-0162

Armstrong Whitworth  
N<sup>o</sup> 493.

Wallsend Slipway 6<sup>o</sup>  
N<sup>o</sup> 635.

1806<sup>h</sup>



S/S "Katuna"  
Newcastle-on-Tyne.

N<sup>o</sup> 52407

N<sup>o</sup> 7404  
LLOYDS TEST  
360 LBS.  
11-1-07. J.E.S



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THE WALLSEND SLIPWAY & ENGINEERING Co., Ltd

Enclosure to

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W1138-0162<sup>1</sup>/<sub>2</sub>