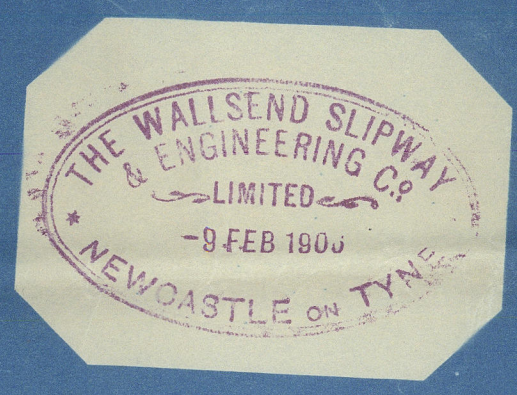


15.2.06



BOILER ORDER No 194 B

Messrs Sir W G ARMSTRONG WHITWORTH & CO'S S.S. No 449

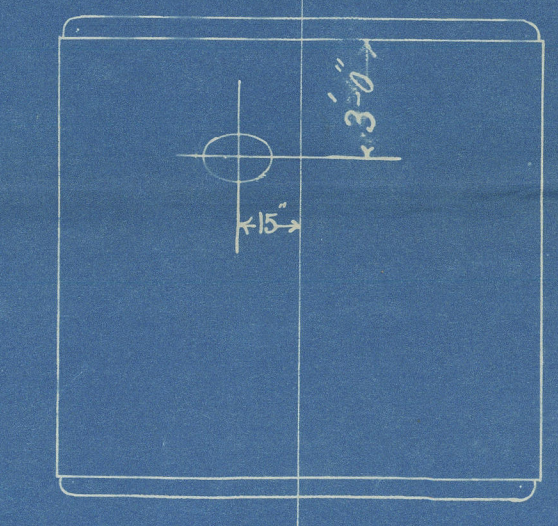
To pass Lloyd's, Hamburg Law Requirements

1, OFF THIS.

SCALE 1" = 1 FT.  
25 4 1/2" = 304.79 mm

MATERIAL MANUFACTURED BY

PLATES STEEL  
RIVETS "  
STAYS "  
TUBES IRON

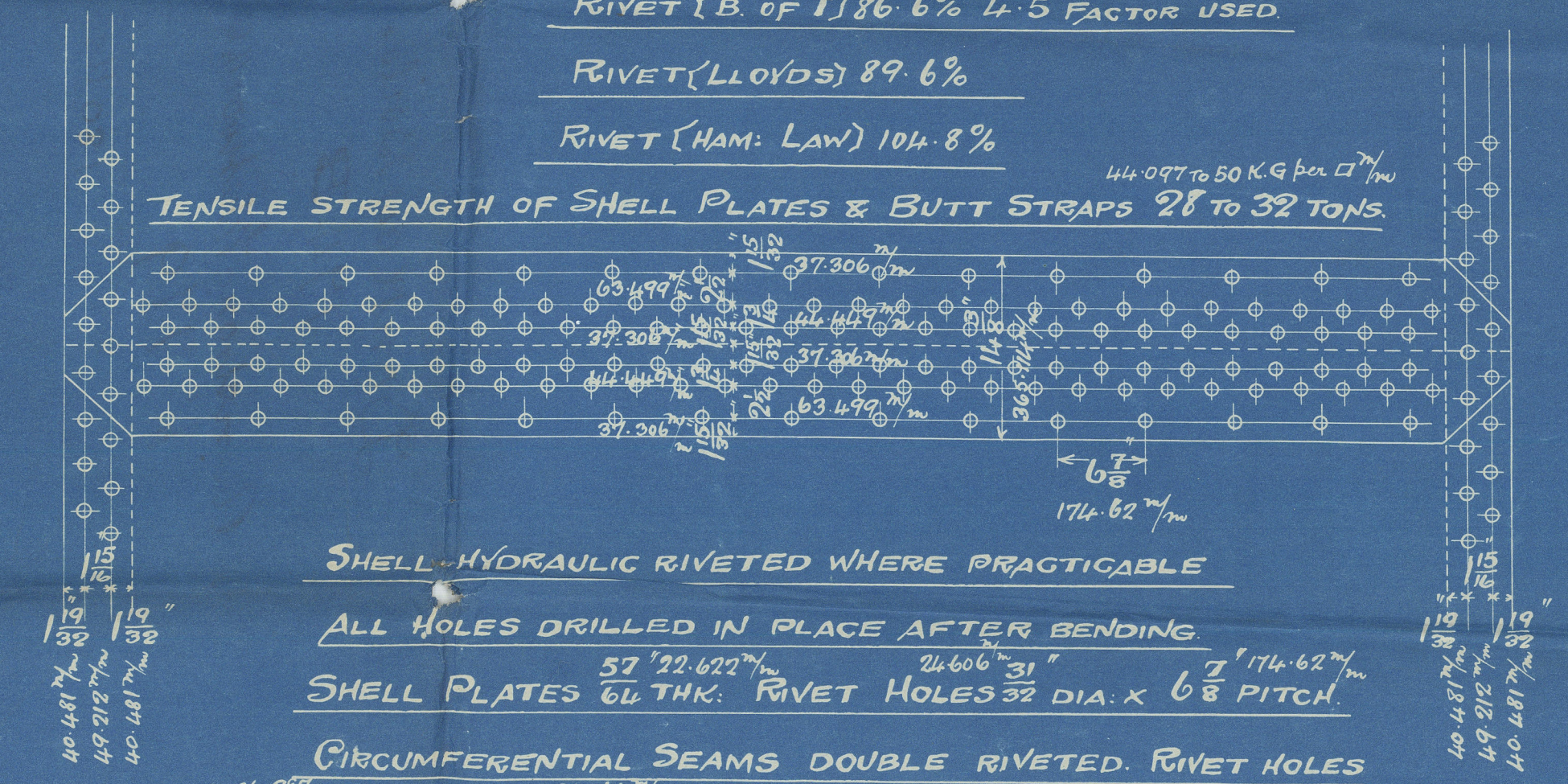


FRONT OF BOILER

PLAN OF SHELL RIVETING

STRENGTH OF JOINT

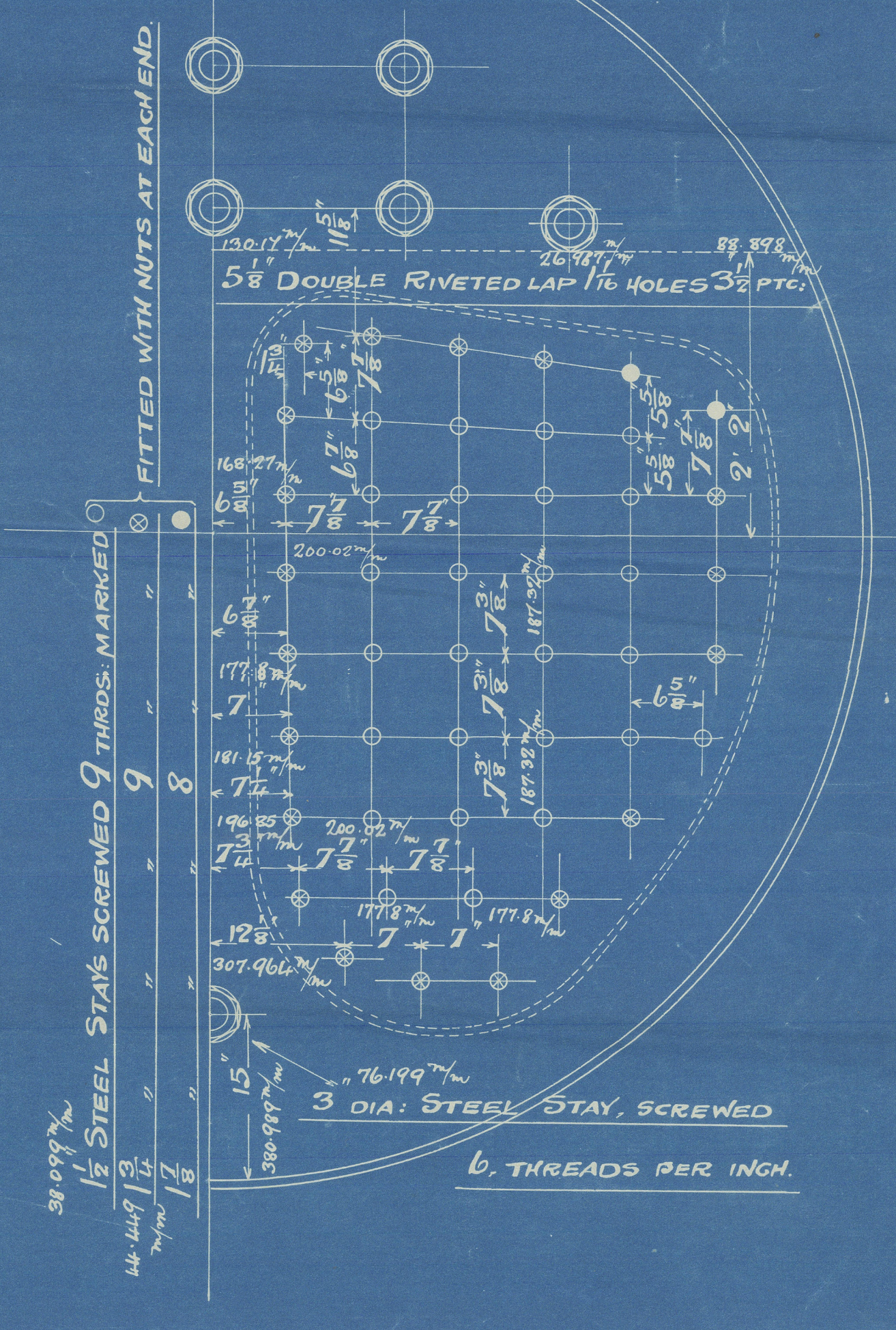
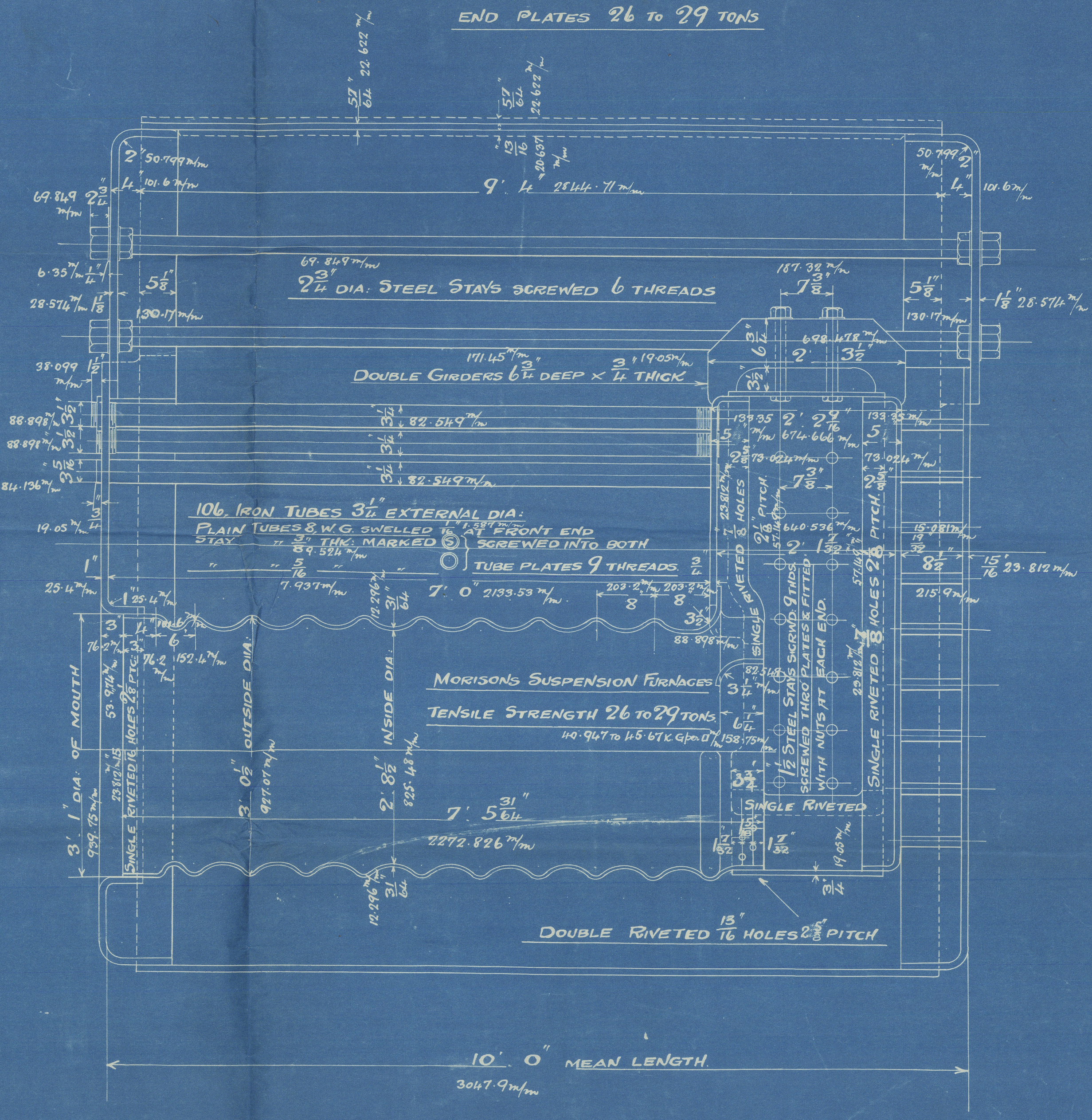
PLATE 86 %  
RIVET (B. OF T) 86 1/2 % 1.5 FACTOR USED  
RIVET (LLOYD'S) 89 %  
RIVET (HAM. LAW) 104 1/2 %



CIRCUMFERENTIAL SEAMS DOUBLE RIVETED. RIVET HOLES 1 1/8\"/>

OUTSIDE BUTT STRAPS 57 1/2\"/>

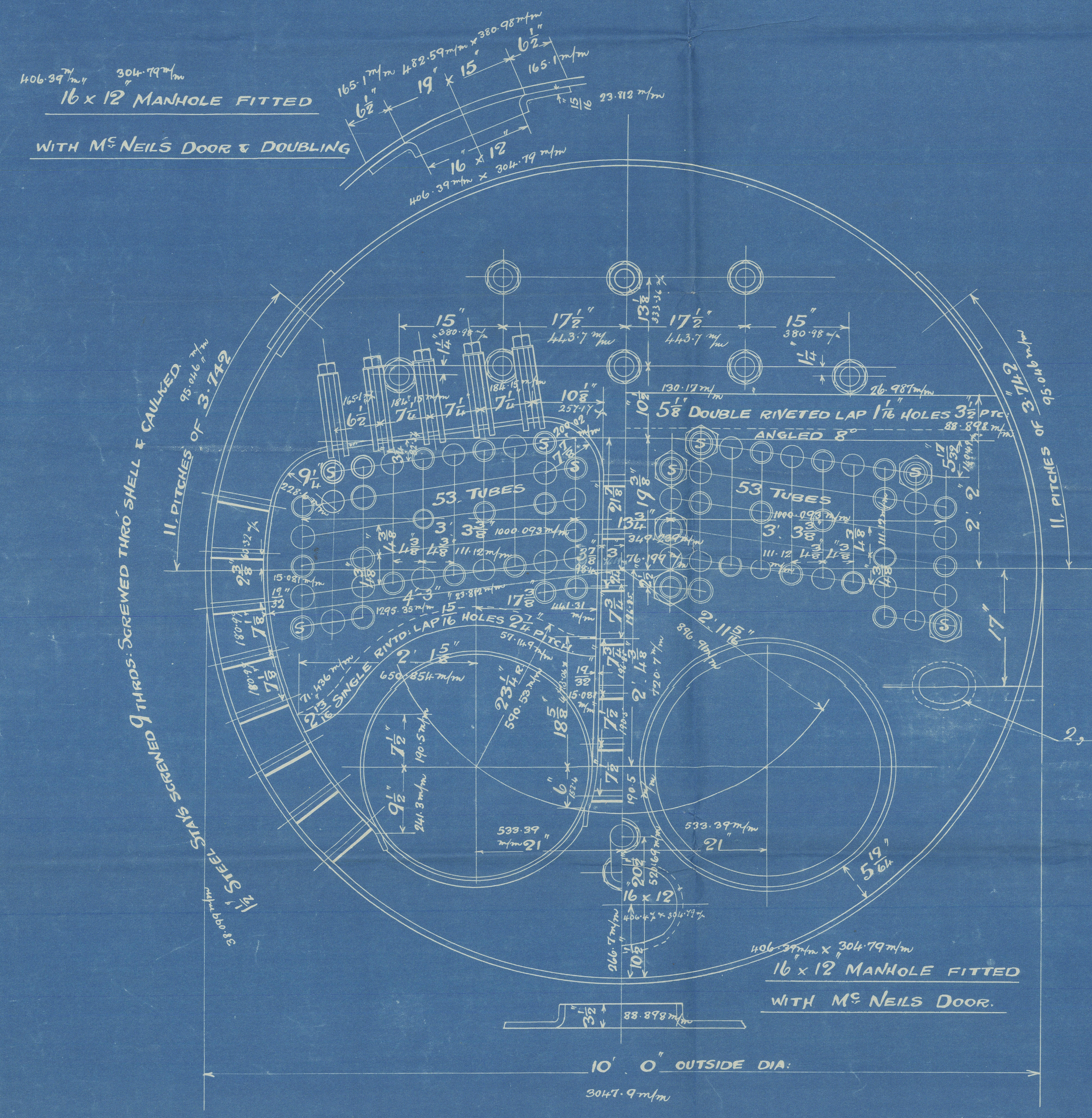
TENSILE STRENGTH OF INTERNAL & END PLATES 26 TO 29 TONS



HEATING SURFACE	SQ. FT.	SQ. METRES
TUBES	630	58.527
FURNACES	75	6.967
COMBUSTION CHAMBERS	86	7.989
TUBE PLATES	32	2.972
TOTAL	823 SQ. FT.	76.455 SQ. METRES

12.655 K.G. PER Q.C.M.  
WORKING PRESSURE 180 LBS PER Q.

TEST " 360 " "  
25.31 K.G. PER Q.C.M.



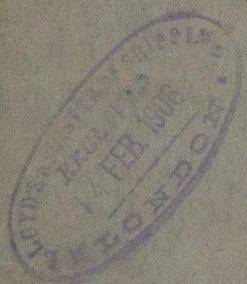
Handwritten notes and signatures at the bottom right, including '3816' and '14/2/06'.



Donkey Boile.  
174 B

Armstrong Whitworth  
No 749

180 tns



by Shepherson

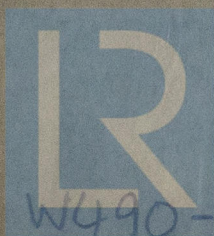
R. Shepherson & Co  
Boiler No 544.

No 7275  
Clydes Test  
360 H.  
J. H. H  
25-7-06

S. J. "Sakkarah"

Newcastle Report

No 51609



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Lloyd's Register  
Foundation

W490-0006