



Lloyd's Register of British & Foreign Shipping,

Collingwood Buildings, Newcastle-on-Tyne.

27th, October 1904.

LLOYDS REGISTER
LONDON.

REC: 28 OCT 1904

ANS: 31/10

Reference

The Secretary,

Lloyd's Register.

Sir,

I beg to forward herewith particulars of some experimental tests made on samples of $\frac{3}{8}$ " and 10/20" high tensile (carbon) ship steel with a view to determine the effect of punching, drilling, punching for a rivet $\frac{1}{8}$ " smaller than rule size and riming out to full size, and punching for a rivet $\frac{1}{8}$ " smaller than rule size and countersinking to full size; also of tests on corresponding ordinary mild steel plates for comparison.

From the results obtained it appears that in the high tensile steel when the holes are punched for a rivet $\frac{1}{8}$ " smaller than rule size and are rimed out to full size that the injury to the material due to punching is removed.

Messrs. Swan & Hunters desire to know as early as possible of the decision in this matter in order that they may put the bulkheads of the Cunard Express Steamer No.735 in hand.

I am, Sir,

Your obedient Servant,

E. B. Champness



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Foundation

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Collingwood Buildings, Newcastle-on-Tyne

28th October 1904

The Secretary,

Lloyd's Register,

Sir,

I beg to forward herewith particulars of some experimental tests made on samples of $\frac{1}{2}$ " and $10/32$ " high tensile (carbon) ship steel with a view to determine the effect of punching, drilling, punching for a rivet $\frac{1}{2}$ " smaller than rule size and turning out to full size, and punching for a rivet $\frac{1}{2}$ " smaller than rule size and counterboring to full size, also of tests on corresponding ordinary mild steel plates for comparison. From the results obtained it appears that in the high tensile steel when the holes are punched for a rivet $\frac{1}{2}$ " smaller than rule size and are turned out to full size that the injury to the material due to punching is removed.

Yours faithfully,
Wm & Hunter

of the decision in this matter in order that they may be the bulkheads of the Guard Express Steamship in hand.

I am, Sir,

Your obedient servant

AS
 28 OCT 1904
Early abandonment
expressed
[Signature]

Referred to the Chief Ship Surveyor and the Chief Engineer Surveyor.