

not reg^d by owner

CERTIFICATE FOR STEEL HAWSER.

We hereby Certify that the 90 fathoms of
4 inch circumference galvanized Steel Wire Hawser,
supplied to Messrs Swan & Hunter, Wallsend
for their Ship No. 53 is composed
of 72 wires (Number 14 Birmingham Wire Gauge),
and that the several wires, after being galvanized, have been
subjected to, and have successfully withstood the following
tests, viz.:

Each wire has withstood a tensile strain of 10 cwt

It has withstood being twisted 22 times in itself in a length
of eight inches.

It has been doubled and twisted eight times round itself as a
core and untwisted again without fracture.

We guarantee that the Steel Wire Hawser of
4 inches in circumference above described will bear a strain
of 32 $\frac{3}{4}$ tons without breaking.

May 4th 1881

W. Haggie & Son

R. Hood Haggie & Son

Manufacturers



8700-0070

No 53 Steel Hawser
Certificate

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