

SHIP BUILDING YARD & GRAVING DOCK, NORTH SHIELDS.

ST LAWRENCE ROPERY, NEWCASTLE UPON TYNE.

AGENTS FOR THE ORIGINAL MUNTZ'S METAL COMPANY LIMITED, BIRMINGHAM.

HOS & WM SMITH.

LONDON OFFICE,
LEADENHALL STREET, E.C.

1, Queen Street.

Newcastle upon Tyne 2 June 1881

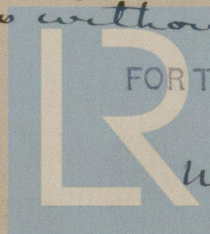
Certificate for Steel Hawser

We hereby certify that the 90 fathoms of 3 inch circumference galvanized steel wire hawser, supplied to Messrs Wigham Richardson & Co for their ship 40128 is composed of 72 wires (Number 15 1/2 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 6 1/2 cwt.
It has withstood being twisted 20 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 3 inches in circumference above described will bear a strain of 17 Tons without breaking.

FOR THOS. & WM. SMITH.



Registered
Manufacturers
Foundation

NWC 718 - 0038