

R. S. NEWALL & SON, L<sup>TD</sup>,  
Wire Rope Manufacturers.

CERTIFICATE FOR STEEL WIRE HAWSER.

We hereby Certify that the 90 fathoms of  
 $4\frac{1}{2}$  inch circumference galvanized Steel Wire Haulser  
supplied to Messrs A Weir & Co  
for the Ship "bedarbank" is  
composed of 6 strands, each containing 17 wires of .090 inch  
diameter, and that the several wires, after being galvanized, have  
been subjected to, and have successfully withstood, the following  
tests, viz. —

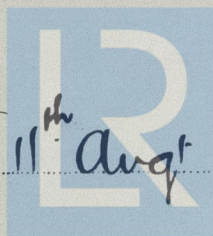
Each wire has withstood a tensile stress at least equivalent to that  
set forth in Table No. 22 of the Rules of Lloyd's Register  
of Shipping, and the aggregate strength of the wires is not less  
than 10 per cent in excess of that stress.

Each wire has been twisted eight times round itself as a core, and  
untwisted again and straightened without fracture.

We guarantee that the Steel Wire Haulser of  
 $4\frac{1}{2}$  inches in circumference above described will bear a strain  
of 39 tons without breaking.

For R. S. Newall & Son, L<sup>td</sup>  
Peter Ferguson  
Manufacturers.

19 Royal Exchange Square,  
Glasgow.



11<sup>th</sup> Aug<sup>r</sup> 1897

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