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JOHN A ROEBLINGS SONS COMPANY,

San Francisco, Cal/

12/6/15

CERTIFICATE FOR STEEL WIRE HAWSER

WE HEREBY CERTIFY that the two pieces ninety fathoms each of $4\frac{3}{4}$ " circumference galvanized steel wire hawser supplied to the Union Iron Works Company, for Hulls 119 and 120, are composed of six strands, each containing 12 wires, and that the several wires, after being galvanized, have been subjected to and have successfully withstood, the following tests, viz:

Each wires 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% 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 Hawser, $4\frac{3}{4}$ inches in circumference above described will bear a strain of 47 tons without breaking.

JOHN A. ROEBLING'S SONS CO. OF CAL.

'Signed' S.W.Gilman,

Manufacturer.

1910-29W



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