

*Empress of Scotland*

TESTS OF MATERIAL.

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N/N HANSEATIC DRUM.  
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*Hanseatic*

Shell to be made from solid forged mild steel.

The ultimate tensile strength to be between 34 and 38 tons per square inch and to be determined from test pieces of standard dimensions. The minimum elongation to be such that the ultimate tensile strength in tons per square inch plus the elongation per cent is not less than 57.

The bend test pieces are to be machined to a rectangular section one inch wide by  $\frac{3}{4}$ " thick, with the edges rounded to a radius of one sixteenth of an inch. They are to be bent over the thinner section. The bend test pieces are to withstand without fracture being bent cold through an angle of  $180^\circ$ , the internal radius of the bend being not greater than  $\frac{1}{4}$  inch.

Test pieces to be taken from each end of each drum.

END PLATES.  
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~~Drum end plates to be pressed hot and have an ultimate tensile strength of 26 to 30 tons per sq. inch with an elongation of 23% in 8" test piece.~~

~~RIVETS.  
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~~Rivets to be made from mild steel having an ultimate tensile strength of 26 to 30 tons per square inch with an elongation of 25% in Standard test piece "B".~~

To satisfy all conditions, tests and inspection in accordance with the latest Board of Trade and Lloyd's survey, and to be to the entire satisfaction of the C. P. S. Company's Superintendent Engineer.



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