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Port Cardiff Sep 1-11 1877

1877

Details of Main Boilers of the Steam Ship *Alcazar*

tons

Diameter *11 ft. 6"*Length *9'-9"*Thickness of shell plates *3/4"*Description of riveting of longitudinal joints *Butt*of circumferential joints *Lap*Pitch of rivets ditto *2' + 2 1/4'*ditto *2'*Diameter of rivets ditto *3/4"*ditto *3/4"*Lap of plating ditto *3 1/2"*ditto *3 1/2"*No. Size of manholes in circular shell *12 1/2" + 16 1/2"*How compensated for *by a ring 3" + 1/2"*Number of furnaces in boiler *Three*Diameter of furnaces *2' 8"*Length of furnaces *6'-11"*Thickness of furnace plates *1/2"*Description of joint of furnaces *Lap*Whether strengthened with rings *no*

Greatest length between rings

Thickness of combustion chamber plating *5/8"*Diameter of screw stays to ditto *1 1/2"*pitch of stays *8" + 7 1/4"*End plates, thickness *3/4"*Diameter of longitudinal stays to end plates *1 3/4"*pitch of ditto *14" + 11"*How stays are secured *Furnace angle irons*Diameter of tubes *3 1/4"*pitch of tubes *4 3/4" + 4 3/4"*Thickness of tube plates *11/16"*Stayed by *Stay tubes*pitch of stays *14" + 14"*Description of steam receiver *One in Tunnel*Diameter of ditto *3 ft.*length of ditto *5'-10"*Thickness of plating of ditto *1/2"*ends *1/2"*Ends, how stayed *One stay in centre 1 1/2 dia**Boiler returned August-1877.*

Charles M. Jacobs

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