

S. S. Karang

Size and Description of Boiler

Oval, Horizontal, 14' 6" High 9' 9" long & 9' 0" broad
2 Furnaces each 5' 11 1/2" long x 2' 9" dia.

Shell plating 1/16" thick (P^t Boiler plate). There are 4 plates in the circumference and 4 widths, in the length, edges lapped 3 1/4" single riveted, rivets 1" dia. 2 1/2" pitch. No butts, ends of plates lapped 5" double riveted, rivets 1" dia. 2 3/4" pitch. Angle iron rings in ends 4" x 4" x 3/8" connecting end plating, 3 angle iron stiffeners on flat of sides 4 1/2" x 3 1/2" x 1/2".

Furnace plating 9/16" (Larnley) No anticollapsing rings

Combustion Chamber plating 9/16" (Larnley)

Stays (Longitudinal & across) 1 1/8" dia. = 2.761" Sect. Area.
16" x 12 1/2" = 200" area x 65 lbs = 13000 = 4708 lbs per inch.

Screw Stays in back of Combustion Chamber 1 1/4" dia. = 1.227" Sect. Area. 9" x 9" pitch = 81" area x 65 = 5265 = 4299 lbs per inch.

Top of Combustion Chamber Supported by Screws passing through H Bridge bearers, (3 in each) 1 1/8" dia. = .9940" Sect. area 8" x 8" pitch = 64". Bearers 5" deep x 1/8" thick.

Lube plates 1/16" thick, are protected by Stays 1 3/4" dia. = 1.484" Sect. Area, also 168 tubes 3" dia. expanded in holes. No Stay tubes. —

James Mollison
Glasgow. April 29th 1875



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