

ABSTRACT

The objective of this invention is to provide a support fitting for a heat-resistant block to protect boiler tubes which can be easily and reliably stud-welded without losing any of its function as a support fitting. The support fitting according to this invention is used to attach to the heat-resistant block to protect boiler tubes. It protrudes upward at a right angle from the surface of the rib between two boiler tubes, and it is welded on the rib. The support fitting has a catch to engage with the heat-resistant block on its end. The support fitting according to this invention is distinguished by the fact that the welding surface of the support fitting to the rib is shaped narrower, and by the fact that a single globule of a deoxidizing conductive material used as flux is attached to the narrowed welding surface. In another preferred embodiment of this invention, the support fitting is a vertical piece which has a first horizontal upper surface of the perpendicular support fitting, and a second upper surface of the perpendicular support fitting which is angled slightly upwards. In yet another preferred embodiment of this invention, the support fitting has a vertical piece which extends a fixed distance perpendicular from the rib, and a catch to engage with the heat-resistant block, which extends upward from the end of the vertical piece. The invention is distinguished by the fact that the vertical piece and the catch engage with each other in double groove fashion. In yet another preferred embodiment of this invention, the support fitting is produced by minimizing the proportion of C in the existing cast stainless steel, SUS.