



162162

ABSTRACT

FIREPROOF STRUCTURE AND INSTALLATION METHOD FOR PROTECTING WATER PIPES

The object of this invention is to provide a fireproof structure for protecting water pipes which have stable durability even in the high temperature gas environment, even in the case where it falls off, does not leave the water pipes suddenly exposed, and an installation method employing a fire proof structure. The fireproof structure for protecting water pipes 25B installed on the water pipe walls of the combustion gas side is configured by a double-layered structure consisting of an outer layer water pipe protective structure facing towards the combustion gas side, which is fireproof tile 13, and an inner layer water pipe protective structure provided between the outer layer water pipe protective structure and the water pipes, which is fireproof castable 12. The thickness ratio between the castable 12 and the tiles 13 is lying within the range of about 2:1 to 3:1, and the ratio between the thickness of the fireproof castable and the radius of the water pipe is set to $1 + \alpha : 1$, wherein the value of said α ranges from approximately 0.1 to 0.3. The water pipes 10 tile is equipped with hanging hooks 15a.

FIGURE 1



G00002