

ABSTRACT

A steel wall having both high rigidity and high water stopping performance is provided. Further, a construction method for a steel wall is provided which allows a construction method, which reduces vibration or noise that is not easily reduced in combination steel sheet piles in the related art, to be easily applied. The steel wall 3 is constituted by combining a hat-shaped steel sheet pile 1 as a steel sheet pile and a steel pipe 2. In the steel wall 3, a plurality of hat-shaped steel sheet piles 1 are connected by joints 1d, so that a steel sheet pile wall is provided, and also the steel pipes 2 are in contact with all or some of the hat-shaped steel sheet piles 1 of the steel sheet pile wall with a longitudinal direction of each steel pipe following a longitudinal direction of the hat-shaped steel sheet pile 1.