

ABSTRACT

CONNECTED WALL STRUCTURE CONSISTING OF STEEL PIPE SHEET PILES AND STEEL SHEET PILE, AND METHOD OF CONSTRUCTING SAME

Provided are a connected wall structure consisting of steel pipe sheet piles and a steel sheet pile and a method of constructing the same, such that there is formed a connected structure wherein a certain degree of construction errors is made allowable, with the result that there is provided a rational connected structure which is excellent in constructability and allows for the reduction in construction cost. In order that steel pipe sheet piles 1 installed by being driven with a gap therebetween will be connected together by a steel sheet pile 2 for the purpose of forming a connected wall structure, there are provided on the sides of the steel pipe sheet piles 1, connecting members 3 having slits 3a continuously extending in the longitudinal direction. The ends of the steel pile 2 are fitted into the slits 3a from the longitudinal direction. Predetermined play u for absorbing construction errors between the steel pipe sheet piles 1 is provided in the connecting sections. Since spaces sufficient to absorb construction errors are provided in the connecting sections for the steel pipe sheet piles and the steel sheet pile, the ends of the steel sheet pile may be easily fitted and installed even if the steel pipe sheet piles undergo elongation or shrinkage due to driving.

Figure 1