ABSTRACT

A combined steel wall 1 according to the present invention is formed by connecting Z-shaped steel sheet piles 2 and H-beams 4, each Z-shaped steel sheet 2 pile including a web portion 16, first and second flange portions 3 and 7 provided at both ends of the web portion 16, and first and second joint portions 5 and 9 provided at end portions of the first and second flange portions 3 and 7, respectively. The combined steel wall 1 includes a combined portion in which a Z-shaped steel sheet pile 2, an H-beam 4, and Z-shaped steel sheet pile 2 are arranged in that order, the H-beam 4 being arranged so that a flange portion 37 thereof extends in an axial direction of the first or second flange portion 3 or 7 of one Z-shaped steel sheet pile 2, the other Z-shaped steel sheet pile 2 being arranged ~~so as to~~ so that the first or second flange portion thereof extends in an axial direction of the flange portion 37 of the H-beam 4, and in which end portions of the flange portion 37 of the H-beam 4 are directly connected to the first or second joint portions 5 or 9 of the Z-shaped steel sheet piles 2.