CLAIMS

[Claim 1]

A steel sheet pile in the shape of a U-shaped steel sheet pile comprising:

a web portion;

flange portions at both ends of the web portion;

an interlocking joint portion formed at the end of one of the flanges; and

a joining portion formed at the end of the other flange and used for connecting with an adjacent U-shaped steel sheet pile,

wherein the joining portion is a flat plate shape formed by bending the end of the flange portion parallel to the web portion and extending parallel to the web portion, and the position of the joining portion in a direction perpendicular to the web portion is set within the range of the height of the interlocking joint portion,

and wherein a recess and a protrusion are provided on the flange-side surface of the joining portion so that the protrusion of the joining portion of one steel sheet pile is set in a recess of the joining portion of the other steel sheet pile when two steel sheet piles are joined to each other such that the flange-side surfaces of the joining portions are in contact with each other.

[Claim 2]

The steel sheet pile according to Claim 1, wherein the flange-side surface of the joining portion is located on a straight line that passes through the center of the interlocking joint portion and that is parallel to the web portion.

[Claim 3]

The steel sheet pile according to Claim 1 or 2, wherein the height of the protrusion is set higher than the depth of the recess.

[Claim 4]

The steel sheet pile according to any one of Claims 1 to 3, wherein the steel sheet pile is manufactured by roll forming.

[Claim 5]

A steel sheet pile wall formed by connecting two steel sheet piles according to any one of Claims 1 to 4 together such that the flange side surfaces in the joining portions are in contact with each other and superimposed on each other, and driving the steel sheet piles connected together into the ground.