

ABSTRACT

A concrete variable cross-section prefabricated square pile, comprising pile bodies of large cross-section sections and small cross-section sections alternately arranged along a longitudinal direction. Lateral transition surfaces are formed between side surfaces of the large cross-section sections and adjacent small cross-section sections; at least part of the lateral transition surfaces have a front edge and/or a rear edge that are offset from a vertical direction in a lateral projection, and a vertical projection of an intersection line between the lateral transition surface and a first horizontal plane is located outside a vertical projection of an intersection line between the lateral transition surface and a second horizontal plane; the first horizontal plane is a horizontal plane located above in any two horizontal planes, and the second horizontal plane is a horizontal plane located below in any two horizontal planes; one or both side surfaces of the small cross-section section are perpendicular to the bottom surface of the small cross-section section or are laterally inclined by a set angle. According to the prefabricated pile, the phenomenon that the middle section is easy to damage can be avoided, the breakage rate of the variable cross-section prefabricated square pile is reduced, and the product quality of the variable cross-section prefabricated square pile is more stable and reliable.

FIG. 1