

[Document Type]        Abstract

[Title of the Invention]    JOINT STRUCTURE FOR STEEL PIPE PILE

There is provided a joint structure for a steel pipe pile, in which a first steel pipe pile having an outer fitting end section and a second steel pipe pile having an inner fitting end section are coupled to each other in a state where the outer fitting end section and the inner fitting end section share the same axial line. The joint structure includes, in a case of being seen in a cross section along the axial line, outer fitting stepped sections (or inner fitting stepped sections) that are provided at a plurality of positions along the axial line on an inner side (or an outer side) of the outer fitting end section (or the inner fitting end section) such that diameters increase (or decrease) in steps toward the second steel pipe pile (or the first steel pipe pile). Each of the outer fitting stepped sections (or the inner fitting stepped sections) has an outer fitting peak section (or an inner fitting peak section) relatively close to the second steel pipe pile (or the first steel pipe pile) and an outer fitting valley section (or an inner fitting valley section) adjacent to the outer fitting peak section (or the inner fitting peak section). A ratio obtained by dividing a plate thickness of the outer fitting valley section closest to the second steel pipe pile by a plate thickness of the inner fitting valley section closest to the first steel pipe pile is equal to or greater than 0.84.

FIG. 10