

Abstract

This joint structure is a joint structure of a joint portion where a wall of the RC structure and an end portion of a composite beam are joined, in which the wall includes a wall concrete, the composite beam includes a floor slab and a steel framed beam that supports the floor slab from below, the floor slab includes a floor concrete, and a plurality of reinforcing bars embedded in the floor concrete and the wall concrete, each of the plurality of reinforcing bars includes a reinforcing bar main body extending in a longitudinal direction of the steel framed beam in the floor concrete and the wall concrete, and a diameter-increasing portion that is embedded in the wall concrete and has a length larger than a diameter of the reinforcing bar main body in a radial direction of the reinforcing bar main body, the steel framed beam is discretely or continuously joined to the floor slab in the longitudinal direction by a shear connector, a cross-sectional area ratio of the plurality of reinforcing bars satisfies Formula (1), and a projected anchorage length ratio satisfies Formula (2).

FIG. 2