

[ABSTRACT]

In an RC member joining structure, one RC member is formed by extending main reinforcement from a joining end face to the outer side, and the other RC member is a column and is formed by having sheath pipes buried to open to the joining end face in parallel with the main reinforcement, and the main reinforcement of the one RC member is inserted into the sheath pipe, a grout material is filled inside the sheath pipe, and the main reinforcement of the one RC member and main reinforcement of the other RC member are connected by a non-contact lap splice with each other having a gap therebetween. In addition, in this RC member joining structure, a lap splice length based on bonding is calculated, no bending yield at the cross-section of the joint end point is checked, and the required transverse reinforcement amount in the joint section is configured to be calculated.