

4. The evaluation method of ductilities in Aseismatic reinforcements by Precastblocks and Additional Tendons(APAT) method

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Aseismatic reinforcements by Precastblocks and Additional Tendons (APAT) method is a new aseismatic reinforcing method for existing RC columns ,which manufacture spiral tendons bind precast concrete blocks around the columns. In this paper we describe the evaluation method of ductilities in APAT method for frame structure analysis. And the result of cyclic loading tests using 5/8 scale model columns are simulated employing non-linear three-dimensional finite element method. We introduce the result of the simulation.

Key words : RC columns of rigid-frame railway viaducts, aseismatic reinforcing ,spiral tendons