**EXPERIMENTAL STUDY OF SEISMIC BEHAVIOR OF PRECAST CONCRETE LAYERED SLAB AND BEAM TO COLUMN INTERIOR JOINTS**

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**ABSTRACT**

In order to study on the seismic performance of beam to column joints of high-rise precast concrete structure, which select the interior joints of the bottom layer, middle layer and the top layer of a 100 meters high precast concrete structures, an experimental study on full-scale beam to column joint models subjected reversed cyclic loading was conducted. The study focuses on the influence of joint and beam bar anchorage on the seismic behavior of beam column joints, and that through the test comparison: Precast concrete structure and Cast concrete structure have the similar seismic performance; Steel through set or effective anchorage in beam to column joints have the same seismic performance.

*Keywords: precast frame structure; exterior joint; low-cycle reversed loading test; seismic performance*

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