

Experimental Investigation On Masonry Infill Damages With Reinforced Concrete

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ABSTRACT

This paper study the typical damages reported after recent earthquakes in reinforced concrete frames and masonry infills. There are very important compartment and failure modes on the infilling walls, in particular as there are no specific guidelines for the performance of these walls in current design codes. Masonry infill walls have been known to be non-structural design components at this time, and the seismic behaviour of buildings with reinforced concrete structures that have such walls suggested that the infills are structural. This paper includes many recommendations for enhancing the out-of-plane stability of infill walls. The study of these solutions will lead to the development of innovative masonry systems and to viable consolidation initiatives for existing buildings.

Keywords:

masonry infill, seismic behavior, out-of-plane, damages, consolidation measures
