

Seismic Design of Ductile Masonry Walls

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Abstract:

Properly designed concrete masonry walls are ductile and can respond in a very stable manner in inelastic ranges. A masonry wall responding in the inelastic domain dissipates considerable energy and thus reduces the acceleration that a building experiences. A masonry wall will perform well in the inelastic domain with a prudent selection of vertical and horizontal reinforcement, vertical steel confinement, and the geometric properties of the wall. This paper discusses how this selection can be made and thus how a ductile masonry wall can be designed.

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