

Masonry Foundation Wall Systems Under Combined Uplift and Shear Forces

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Abstract:

The provisions in the Southern Building Code Congress International's SSTC 10-93, *Standard for Hurricane Resistant Residential Construction*, do not allow residential foundation construction that is typical of practices throughout the Southeast. There is an ongoing effort to incorporate the provisions of this standard into the building codes of a number of coastal states, including North Carolina, South Carolina, and Florida. This paper describes a research investigation that was designed to evaluate the shear resistance of typical masonry foundation wall systems under combined shear and uplift loading. The goal of this investigation was to develop residential foundation wall configurations that are more typical of common construction practices in the Southeast, while still providing sufficient resistance to shear and uplift forces common in severe wind events.

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