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Performance of Long Wood-Frame Shear Walls with Varying Opening and Base Restraint Configurations Including Anchor Bolts, Hold-Downs, and Corner Framing (Three Reports)

This document contains a series of three reports that investigate the performance of perforated shear walls, conventional framed walls, and conventional engineered shear walls. One report also presents test results of shear walls that are restrained by corner framing rather than conventional hold-down devices. These studies, conducted at Va Tech, give comprehensive shear wall test results of entire wall assemblies including framing of openings in the walls. The report is the first of a series of studies conducted to improve design of shear walls in engineered light-frame residential construction and to better describe the shear capacity of conventional residential construction. Prepared by Virginia Polytechnic Institute and State University, Brooks Forest Products Research Center (Dr. J. Daniel Dolan and CP Heine) for the NAHB Research Center.

Published in 1997

93 pages

\$25.00

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