



# Wood-Framed Shear Wall Construction--an Illustrated Guide

*Thor Matteson*

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Wood-framed shear walls are a crucial part of modern residential and small commercial buildings. Shear walls resist wind and earthquake forces to protect buildings from collapse. This book explains the engineering principles involved with shear wall design and proper construction. It is written in non-technical language intended for carpenters and builders. The basic, unchanging physical principles are explained with illustrated examples. This guide goes into detail that no other book on the subject even approaches. Over 180 pages and 150 color photos and illustrations show actual construction conditions and examples of proper and improper installations. It is extensively indexed for quick reference to specific topics. A detailed two-page illustration shows many basic requirements in graphical format for easy guidance. Specific sections of the International Building Code and International Residential Code are referenced where appropriate. This edition includes a new chapter on earthquake strengthening methods for existing buildings. This chapter was itself expanded into a completely separate book (over 250 pages) titled "Earthquake Strengthening for Vulnerable Homes." The book is intended mostly for carpenters and builders, but engineers and building inspectors also find the information very useful. Engineers may learn methods to make their shear wall designs more efficient and effective. An extensive inspection checklist (over 70 items) is included. This checklist is the basis for Special Inspection Guidelines for Wood-Frame Construction, currently under development by the Structural Engineers Association of Northern California.

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