



# Fundamentals of Residential Construction

By Edward Allen, Alexander C. Schreyer

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**Fundamentals of Residential Construction** By Edward Allen, Alexander C. Schreyer

**The leading guide to professional home construction—now updated and revised!**

*Fundamentals of Residential Construction, Third Edition* features the most up-to-date explanations of today's residential construction systems. From foundation to roof and exterior finishes to interior details, this new edition thoroughly addresses the latest developments in materials and methods of house construction, including energy efficiency, framing, and roofing.

Abundantly illustrated with more than 1,250 drawings and photographs, including new photorealistic illustrations that bring the text to life, this Third Edition provides authoritative coverage on wood light-frame construction, industrialized systems of construction, insulating concrete forms, light-gauge steel frame, panelized construction, and a new chapter on multifamily construction. Topics covered include:

- Plumbing
- Building codes
- Heating and cooling
- Financing
- Wiring
- Roofing
- Thermal insulation
- Environmental concerns
- Foundations
- Finish sitework
- Rough sitework
- Wood and light-gauge steel framing
- Engineered materials
- Exterior and interior finishes

Organized in a logical, easy-to-follow format, *Fundamentals of Residential Construction, Third Edition* is the one-stop source for building professionals to gain a working knowledge of codes, management procedures, material, and all home building concerns.

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### About the Author

**Edward Allen, FAIA**, has been a member of the faculties of Yale University and the Massachusetts Institute of Technology, and has frequently taught as a guest instructor at other institutions across the United States. Along with a teaching career that spans more than thirty years, he has designed more than fifty constructed buildings. He is the best selling author of *The Architect's Studio Companion*, *Architectural Detailing*, *Form and Forces*, and *Fundamentals of Building Construction*, all published by Wiley.

**Rob Thallon**, architect, Associate Dean and Associate Professor at the University of Oregon School of Architecture and Allied Arts, is the author of the following best selling series of guides: *Graphic Guide to Frame Construction*, *Graphic Guide to Site Construction*, and *Graphic Guide to Interior Details*. He has more than thirty-five years of experience in residential design and construction, and has designed and overseen construction of numerous custom houses and housing complexes.

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