



Coastal Construction Manual

Principles and Practices of Planning, Siting, Designing,
Constructing, and Maintaining Residential Buildings
in Coastal Areas (Fourth Edition)

FEMA P-55 / Volume II / August 2011



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- **Chapter 8** – Site-specific loads, including from snow, flooding, tsunamis, high winds, tornadoes, seismic events, and combinations of loads. Example problems are provided to illustrate the application of design load provisions of ASCE 7-10, *Minimum Design Loads for Buildings and Other Structures*.
- **Chapter 9** – Load paths, structural connections, structural failure modes, breakaway walls, building materials, and appurtenances.
- **Chapter 10** – Foundations, including design criteria, requirements and recommendations, style selection (e.g., open, closed), pile capacity in soil, and installation.
- **Chapter 11** – Building envelope, including floors in elevated buildings, exterior doors, windows and skylights, non-loading-bearing walls, exterior wall coverings, soffits, roof systems, and attic vents.
- **Chapter 12** – Installing mechanical equipment and utilities.
- **Chapter 13** – Construction, including the foundation, structural frame, and building envelope. Common construction mistakes, material selection and durability, and techniques for improving resistance to decay and corrosion are also discussed.
- **Chapter 14** – Maintenance of new and existing buildings, including preventing damage from corrosion, moisture, weathering, and termites; building elements that require frequent maintenance; and hazard-specific maintenance techniques.
- **Chapter 15** – Evaluating existing buildings for the need for and feasibility of retrofitting for wildfire, seismic, flood, and wind hazards and implementing the retrofitting. Wind retrofit packages that can be implemented during routine maintenance are also discussed (e.g., replacing roof shingles).

For additional information on residential coastal construction, see the FEMA Residential Coastal Construction Web site at <http://www.fema.gov/rebuild/mat/fema55.shtm>.

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