



Home Builder's Guide to Coastal Construction

Technical Fact Sheet Series

FEMA P-499 / December 2010



FEMA

Fema Home Builders Guide

Judd E. Hollander



Fema Home Builders Guide:

Home Builder's guide to coastal construction Federal Emergency Management Agency, 2012-10-15 NOTE NO FURTHER DISCOUNT FOR THIS PRINT PRODUCT OVERSTOCK SALE Significantly reduced list price FEMA produced this series of 37 fact sheets to provide technical guidance and recommendations concerning the construction of coastal residential buildings. The fact sheets present information aimed at improving the performance of buildings subject to flood and wind forces in coastal environments. Photographs and drawings illustrate National Flood Insurance Program (NFIP) regulatory requirements, the proper siting of coastal buildings, and recommended design and construction practices for building components including structural connections, the building envelope, and utilities. Many of the fact sheets also include lists of FEMA and other resources that provide more information about the topics discussed. Where appropriate, resources are accompanied by active web links. A list of the individual fact sheets that are contained in FEMA P 499 follows:

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Home Builder's Guide to Coastal Construction, 2005 **Home Builder's Guide to Coastal Construction - Technical Fact Sheet Series (FEMA P-499 / December 2010)** THE FEDERAL EMERGENCY MANAGEMENT AGENCY. (FEMA), 2020-03-19 FEMA has produced a series of 37 fact sheets that provide technical guidance and recommendations concerning the construction of coastal residential buildings The fact sheets present information aimed at improving the performance of buildings subject to flood and wind forces in coastal environments The fact sheets make extensive use of photographs and drawings to illustrate National Flood Insurance Program NFIP regulatory requirements the proper siting of coastal buildings and recommended design and construction practices including structural connections the building envelope utilities and accessory structures [Home Builder's Guide to Construction in Wildfire Zones, Technical Fact Sheet Series, FEMA P-737](#), 2009* **Wind and Seismic Effects** United States-Japan Cooperative Program in Natural Resources. Panel on Wind and Seismic Effects. Joint Meeting, 1994 **2018 International Existing Building Code Handbook** Chris Kimball, 2019-08-16 Renovate repair or retrofit existing buildings in complete compliance with the 2018 IEBC This practical guide shows step by step how to apply the provisions of the 2018 International Existing Building Code IEBC when performing repairs change of occupancy retrofits and seismic evaluations in buildings of all sizes The book contains all the information you need to understand with the complex provisions in the code and apply them properly to meet structural safety requirements 2018 International Existing Building Code Handbook opens with an overview of the IEBC and of permits

construction documents and other administration requirements It goes on to explain the three different project methods that can be followed under the IEBC the prescriptive method the work area method and the performance compliance method Throughout flowcharts and illustrated examples clearly demonstrate the proper application of the code in real world projects Fully aligns with the 2018 International Existing Building Code Covers prescriptive work area and performance compliance methods Written by an ICC MCP who has conducted numerous seminars on the IEBC *Engineering Principles and Practices for Retrofitting Flood-prone Residential Structures*, 2012 Synopsis The third edition of this document is intended to further aid homeowners in selecting and successfully executing a flood retrofit on their home Engineering design and economic guidance on what constitutes feasible and cost effective retrofitting measures for flood prone residential and non residential structures are presented Elevation relocation dry floodproofing wet floodproofing and the use of levees and floodwalls to mitigate flood hazards are discussed This edition was updated to be more user friendly and concise the overall length of the publication has been shortened *NextGen Implementation Plan* Federal Aviation Administration (U.S.), 2013-06-18 The 2013 Plan serves as a roadmap of the FAA s ongoing transition to NextGen and provides an overview of the benefits aircraft operators and passengers are receiving from recent NextGen improvements NextGen is the shift to smarter satellite based and digital technologies and new procedures to make air travel more convenient predictable and environmentally friendly Highlights of the Plan include the latest on metroplex initiatives Performance Based Navigation growth Automatic Dependent Surveillance Broadcast deployments surface collaboration and plans for future benefits The plan devotes an entire chapter to general aviation and recognizes the growing role of this important stakeholder Real Estate Record and Builders' Guide, 1908 Coast to Coast Association of State Floodplain Managers. Conference, 1996 *Living with the South Carolina Coast* Gered Lennon, 1996 *Living with the South Carolina Coast* is the latest volume in the *Living with the Shore* series that comprehensively investigates the status of a specific state s coastal region Completely revising a previously published work in the series that dealt with South Carolina this book not only brings up to date a wealth of information on migrating shorelines selection of building sites and pertinent regulations but also reflects an expanded concept of the coast to include a broad range of coastal hazards Powerful storms have always played a major role in coastal processes in South Carolina and the effects of Hurricane Hugo the storm that ravaged the area in 1989 are thoroughly discussed A series of Coastal Risk Maps are also included These maps graphically depicting areas of predictable erosion and storm damage potential have been provided for every developed beach or barrier island in the state Beyond the threat of hurricanes and coastal erosion South Carolina home of the Charleston Seismic Region is also at risk for earthquakes An entire chapter is devoted to earthquake resistant construction and the great Charleston earthquake of 1886 is examined in detail Fires and floods are discussed The Beachfront Management Act of 1990 the first state legislation of its kind that provides a system for dealing with migrating shorelines while preserving beaches for future generations is also explained

Covering everything from a history of the development of South Carolina's coast to recommendations on how to select an island homesite this book will be a resource to professional coastal planners and managers residents prospective homeowners and naturalists

Educational Series - Maryland Geological Survey Maryland Geological Survey,1999

Recommended Residential Construction for Coastal Areas - Building on Strong and Safe Foundations (FEMA P-550, Second Edition) U. s. Department of Homeland Security,Federal Emergency Management Agency,2013-04-26 Past storms such as Hurricanes Andrew Hugo Charley Katrina and Rita and recent events such as Hurricane Ike continue to show the vulnerability of our built environment While good design and construction cannot totally eliminate risk every storm has shown that sound design and construction can significantly reduce the risk to life and damage to property With that in mind the Federal Emergency Management Agency FEMA has developed this manual to help the community of homebuilders contractors and local engineering professionals in rebuilding homes destroyed by hurricanes and designing and building safer and less vulnerable new homes The intent of the manual is to provide homebuilders contractors and engineering professionals with a series of recommended foundation designs that will help create safer and stronger buildings in coastal areas The designs are intended to help support rebuilding efforts after coastal areas have been damaged by floods high winds or other natural hazards The foundations may differ somewhat from traditional construction techniques however they represent what are considered to be some of the better approaches to constructing strong and safe foundations in hazardous coastal areas The objectives used to guide the development of this manual are To provide residential foundation designs that will require minimal engineering oversight To provide foundation designs that are flexible enough to accommodate many of the homes identified in A Pattern Book for Gulf Coast Neighborhoods prepared for the Mississippi Governor's Rebuilding Commission on Recovery Rebuilding and Renewal To utilize model layouts so that many homes can be constructed without significant additional engineering efforts The focus of this document is on the foundations of residential buildings The assumption is that those who are designing and building new homes will be responsible for ensuring that the building itself is designed according to the latest building code International Building Code International Residential Code and FEMA guidance and any local requirements The user of this manual is directed to other publications that also address disaster resistant construction Although the foundation designs are geared to the coastal environment subject to storm surge waves floating debris and high winds several are suitable for supporting homes on sites protected by levees and floodwalls or in riverine areas subjected to high velocity flows Design professionals can be contacted to ensure the foundation designs provided in this manual are suitable for specific sites This edition of FEMA 550 introduces the Case H foundation which is an open deep foundation developed for use in coastal high hazard areas V zones It is also appropriate to use the Case H foundation in Coastal A and non coastal A zones Case H foundations incorporate elevated reinforced concrete beams that provide three important benefits One the elevated beams work in conjunction with the reinforced concrete columns and

grade beams to produce a structural frame that is more efficient at resisting lateral loads than the grade beams and cantilevered columns used in other FEMA 550 open foundations. The increased efficiency allows foundations to be constructed with smaller columns that are less exposed to flood forces. The second benefit is that the elevated reinforced concrete beams provide a continuous foundation that can support many homes constructed to prescriptive designs from codes and standards such as the IRC, the American Forest and Paper Association's Wood Frame Construction Manual for One and Two Family Dwellings (WFCM) and the International Code Council's Standard for Residential Construction in High Wind Regions (ICC 600). The third benefit that Case H foundations provide is the ability to support relatively narrow homes. It is anticipated that Case H foundations can be used for several styles of modular homes.

Building Design for Wind Forces: A Guide to ASCE 7-16 Standards Rima Taher, 2018-08-24. Expert coverage of ASCE 7-16 compliant wind resistant engineering methods for safer, sounder low rise and standard multi story buildings. Using the hands on information contained in this comprehensive engineering guide you will be able to design and construct safer buildings that will better withstand extreme wind forces. Written by a recognized structural design expert, the book explains the general concepts and principles involved in the design of buildings and structures for wind forces. Structural systems used to resist wind forces are outlined and explained in the context of both low rise and high rise buildings. *Building Design for Wind Forces* provides easy to follow summaries of complex ASCE 7-16 wind load provisions and shows how to apply the corresponding design procedures using practical examples. A detailed discussion of typical structural damage caused by extreme wind events such as hurricanes and tornadoes is presented along with design recommendations. Current wind engineering activities and recent research developments are discussed and a general overview of wind tunnel procedures and an introduction to the concept of database assisted design (DAD) is provided. *Building Design for Wind Forces* covers Wind forces and wind effects on buildings and structures, Wind load provisions of the ASCE 7-16 standard, Damage to structures caused by extreme wind events, Wind engineering activities and research trends, Structural systems for lateral loads, Tall buildings, Wind design procedures and wind load parameters, Wind loads on the Main Wind Force Resisting System (MWFRS), Wind loads on Components and Cladding, C/C Wind loads on building appurtenances and other structures, Wind tunnels and the wind tunnel procedure, Database assisted design (DAD).

Home Builder's Guide to Construction in Wildfire Zones (Technical Fact Sheet Series - FEMA P-737 / September 2008) U. s. Department of Homeland Security, Federal Emergency Management Agency, 2013-01-27. The purpose of these Technical Fact Sheets, Home Builder's Guide to Construction in Wildfire Zones is to provide information about wildfire behavior and recommendations for building design and construction methods in the wildland urban interface. Implementation of the recommended design and construction methods can greatly increase the chances of a building's survival in a wildfire.

Louisiana Coastal Hazard Mitigation Guidebook James G. Wilkins, 2008. The House Handbook, 2006. **Natural Hazards Observer**, 1994. **Fault Line Forum**, 1998.

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