

FEMA Flood Protection Library

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[Protecting Manufactured Homes from Floods and Other Hazards](#)

This document reflects the requirements of the most current codes and standards and to provide a best practices approach in reducing damages from natural hazards. This document concentrates on flood and wind events, while also addressing seismic hazards and recommends several multi-hazard resistant foundation designs. Designs are included for wood-framed foundations, conventional concrete and masonry pier foundations, and ground anchors. The ground anchor foundations are based on results from a series of first-of-its-kind saturated and dry soil anchor tests.

[Protecting Building Utilities From Flood Damage](#)

The overall objective of this document is to assist in the construction of buildings with building utility systems that are designed and built so that the buildings can be re-occupied and fully operational as soon as electricity and sewer and water are restored to the neighborhood.

[Engineering Principles and Practices of Retrofitting Floodprone Residential Structures](#)

This document is intended to 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.

[Flood Damage-Resistant Materials Requirements](#)

Provides guidance on the NFIP regulations concerning the required use of flood-damage resistant construction materials for building components located below the Base Flood Elevation in Special Flood Hazard Areas (both A and V zones).

[Homeowner's Guide to Retrofitting: Six Ways to Protect Your House from Flooding](#)

FEMA has prepared this guide specifically for homeowners who want to know how to protect their homes from flooding. As a homeowner, you need clear information about the options available to you and straightforward guidance that will help you make decisions. This guide gives you both, in a form designed for readers who have little or no experience with flood protection methods or building construction techniques.