



### **Protect Your Property from High Winds (April 2011)**

E, C, CO, 

This series of 8 flyers describes how protecting your property from high winds can involve a variety of actions, from inspecting and maintaining your building to installing protective devices. Most of these actions, especially those that affect the exterior shell of your building, should be carried out by qualified maintenance staff or professional contractors licensed to work in your state, county, or city.

<https://www.fema.gov/library/viewRecord.do?id=3263>

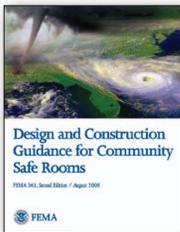


### **Hurricane Katrina in the Gulf Coast: Mitigation Assessment Team Report, Building Performance Observations, Recommendations, and Technical Guidance (FEMA 549, July 2006)**

E, C, H,   

In response to Hurricane Katrina, FEMA deployed a Mitigation Assessment Team (MAT) to evaluate and assess damage from the hurricane and provide observations, conclusions, and recommendations on the performance of buildings and other structures impacted by wind and flood forces.

<https://www.fema.gov/library/viewRecord.do?id=1857>

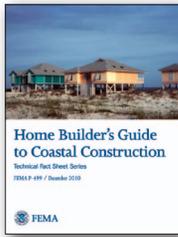


### **Design and Construction Guidance for Community Safe Rooms (FEMA 361 - Second Edition, August 2008)**

E, C, CO, H,   

This document presents important information about the design and construction of community safe rooms that will provide protection during tornado and hurricane events. Community safe rooms are designed and constructed to protect a large number of people from a natural hazard event. The number of persons taking refuge in the safe room will typically be more than 12 and could be up to several hundred or more. This latest edition meets and exceeds the design criteria set for in the ICC-500, Standard for the Design and Construction of Storm Shelters.

<https://www.fema.gov/library/viewRecord.do?id=1657>



### **Home Builder's Guide to Coastal Construction: Technical Fact Sheet Series (FEMA P-499, December 2010)**

E, C, CO, H,   

FEMA produced this series of 37 fact sheets to provide technical guidance and recommendations concerning the construction of coastal residential buildings.

<https://www.fema.gov/library/viewRecord.do?id=2138>



### **Tornado Recovery Advisories**

E, C, CO, H, 

The Recovery Advisories provide information about tornado risk, sheltering from tornadoes, and improving manufactured homes against damage from high winds.

### **2011 Recovery Advisories in Alabama, Mississippi, Tennessee, Georgia, and Missouri**

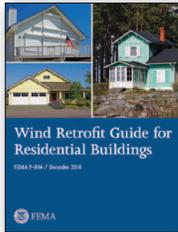
<https://www.fema.gov/library/viewRecord.do?id=4723>

### **2007 Tornado Recovery Advisories in Florida**

<https://www.fema.gov/library/viewRecord.do?id=2631>

### **2007 Tornado Recovery Advisories in Kansas**

<https://www.fema.gov/library/viewRecord.do?id=2972>



### **Wind Retrofit Guide for Residential Buildings (FEMA P-804, December 2010)**

E, C, H,   

The purpose of this Guide is to provide guidance on how to improve the wind resistance of existing residential buildings in Mississippi and across the Gulf Coast. Although this Guide was developed to support initiatives in the Gulf Coast region, the content of this document should serve as guidance on retrofitting existing buildings for improved performance during high-wind events in all coastal regions.

<https://www.fema.gov/library/viewRecord.do?id=4569>



# Building Science for Disaster-Resilient Communities: Wind Hazard Publications

FEMA L-780 / November 2011



**FEMA**

FEMA L-780  
Catalog No. 09345-1



**FEMA**

Mitigation  
Works

## Building Science for Disaster-Resilient Communities

# Mitigation Works

### Flood/Wind Building Science Helpline

FEMA-Buildingsciencehelp@dhs.gov • 1-866-927-2104

E (Engineers) / C (Contractors) / CO (Community Officials) / H (Homeowners)

🖨️ (Available Online) 📄 (Available Print) 📀 (Available CD)

To download publications, please visit the FEMA Library at: <http://www.fema.gov/library>.

To order publications please call 1-800-480-2520 or fax 240-699-0525 (Monday – Friday, 8:00 a.m. – 5:00 p.m., EST) or email your request to FEMA-Publications-Warehouse@dhs.gov. Please provide the title, publication number, and quantity of each publication, along with your name, address, zip code, and daytime telephone number.

### Building Science

The Building Science Branch develops and produces technical guidance and tools focused on fostering a disaster-resilient built environment. Located within the FEMA Federal Insurance and Mitigation Administration's (FIMA) Risk Reduction Division, the Building Science Branch supports FIMA's mission to reduce risk to life and property by providing state-of-the-art technical hazard mitigation solutions for buildings. Mitigation efforts provide value to the American people by creating safer communities and reducing loss of life and property.

Building Science publications provide strategies for all types of hazards. This brochure provides readers with a quick summary of publications that will help them prepare for and mitigate against wind hazards.

### Wind Hazard

Severe wind storms often directly damage roofs, windows, and exterior finishes. The impact that wind has on the envelope of a building can also impact the super-structure of the building, and breaches in a building envelope frequently contribute to additional damages.

Debris such as signs, roofing material, and other small items can also become flying missiles during wind events, which can pose a danger to your home or the safety of you and your family.

Proper design and construction provides resilient buildings that resist damages from hurricane-force winds and other high-wind events.

### Building Science Publications

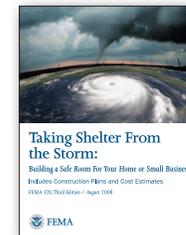


### Catalog of FEMA Building Science Branch Wind, Flood, and Wildfire Publications, Training Courses, and Workshops (FEMA P-787, Third Edition, November 2011)

E, C, CO, H, 🖨️ 📄 📀

This catalog contains a listing with brief descriptions of publications, courses and workshops developed by the Building Science Branch of FEMA's Federal Insurance and Mitigation Administration.

<https://www.fema.gov/library/viewRecord.do?id=3184>



### Taking Shelter From the Storm: Building a Safe Room For Your Home or Small Business (FEMA 320 – Third Edition, August 2008)

E, C, CO, H, 🖨️ 📄 📀

FEMA 320, now in its third edition, helps home or small business owners assess their risk and determine the

best type of safe room for their needs. The publication provides designs for basement, in-ground, and above-ground safe rooms. Construction plans and specifications are available.

<https://www.fema.gov/library/viewRecord.do?id=1536>

