

Protecting your family and home from violent weather with Hurricane Windows and Doors



PROVIDED AS A SERVICE BY

Gorell[®]
WINDOWS & DOORS

www.gorell.com
www.hurricane-window.com

Are you protected against violent weather?



Most everyone knows of the enormous dangers that hurricanes, gale-force winds and other forms of violent

weather pose. These include injury and even death and, of course, destruction of homes and property.

A common occurrence during violent weather is the failure of windows and doors. The results are often catastrophic.

- Turbulent winds can quickly fill a home, resulting in pressure so great that weaker components of the structure fail and separate. It's not unusual for a roof to literally be blown off a home when this happens.

- Outside airborne debris and glass from windows and doors can penetrate homes with such speed and force that they threaten lives and cause major structural damage to the home.
- Glass, materials and other contents from the home can be blown into the outside air at high velocity, creating dangerous situations for those still outside.

In many areas, new homes and buildings must meet strict construction codes to help minimize the effects of such severe weather. That's a good thing, but what about older, existing homes?

What can you do to protect your family—and your home and possessions? How can you be better prepared?



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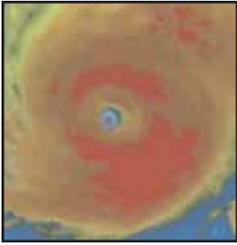
Contents from the home can be blown into the outside, creating dangerous situations.

HOW WELL ARE YOU PROTECTED IF A HURRICANE HITS YOUR AREA?

Do you have:

- | | |
|---|--|
| <input type="checkbox"/> Plan in place to promptly evacuate your home or area. | <input type="checkbox"/> Back-up energy source, e.g., a gas generator. |
| <input type="checkbox"/> More than one exit area from your home. | <input type="checkbox"/> Established means of emergency communication. |
| <input type="checkbox"/> Phone list of emergency numbers to call. | <input type="checkbox"/> Hurricane (impact) windows and doors or shutters to protect against wind, water and flying debris. |
| <input type="checkbox"/> A contingency plan if you are unable to leave the area. | <input type="checkbox"/> A disaster supply kit that's located where all family members can easily access it. (Visit the National Hurricane Center's web site — www.nhc.noaa.gov — for an excellent list of what to include in your kit.) |
| <input type="checkbox"/> Quick and easy arrangements for storing important documents and valuables. | |

Be prepared for the next big one.



There are things you can do to be better prepared. One is to storm-proof your home as much as possible BEFORE

violent weather strikes. The last thing you want to be doing in the middle of a hurricane is to be tacking plywood to the openings of your home.

WHAT DOESN'T WORK

Unfortunately, “standard” windows and doors stand up poorly to the force of violent weather and hurricanes. The wind itself can break glass, but airborne debris is equally likely to do so.

There are solutions. Shutter systems are one. Drawbacks of shutters, however, include cost, appearance and the need to make changes to the exterior of the home. During a storm, shutters need to be pulled down, leaving the home in darkness should power be lost.



WINDOWS AND DOORS AS A SOLUTION

Another solution is to have windows and doors made specifically for the purpose of protecting families and homes from severe weather. In recent years, vinyl hurricane windows have emerged as an excellent choice for all-around weather protection.

With heavy-duty, fusion-welded frames and sashes—and special, tough laminated glass—vinyl windows easily “make the grade” for strength and durability. They meet the necessary performance levels pertaining to operational force, air infiltration, water resistance, structural wind load, forced-entry resistance, missile impact testing and pressure cycling. This means they provide the hurricane protection you and your family need.

Unlike other products like aluminum windows, vinyl windows also offer other benefits like high energy efficiency, beautiful appearance and ease of use.



The last thing you want to be doing in the middle of a hurricane is to be tacking plywood to the openings of your home.



“Standard” windows and doors stand up poorly to the force of violent weather and hurricanes.



Drawbacks of a shutter system include appearance, the need to make changes to the exterior of a home and cost.



Vinyl hurricane windows have emerged as an excellent choice for all-around weather protection.

How do you select hurricane windows and doors that will help protect your home?



Vinyl hurricane windows and doors offer varying levels of protection. Consider selecting products that are

right for your home, based on where you live and the requirements in your area.

1. Determine the level of protection you need. Check with your local code office to ensure you have your county's current code requirements.
2. Determine if the windows you are considering meet the code requirements. Ask your window professional to show you supporting documents that verify the windows meet the codes.

3. Once you are certain the windows meet the appropriate codes, consider other facets and benefits important to you and your family. These include appearance (e.g., available styles, grids, vinyl colors and woodgrains), security and energy efficiency.



ENERGY STAR® qualified Gorell hurricane windows help to lower energy bills and provide a more comfortable living environment.



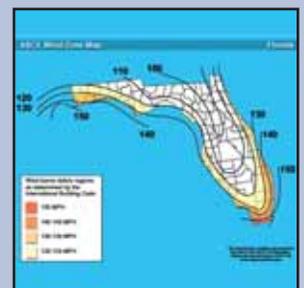
A full-scale Mid and Northern Atlantic Coastline ASCE Map is located on page 8.



A full-scale North Carolina, South Carolina, Georgia and Alabama ASCE map is located on page 8.



A full-scale Gulf Coast ASCE map is located on page 9.



A full-scale Florida ASCE map is located on page 9.

Gorell Armor Max Plus™ Windows—for ultimate impact protection and so much more.



Tough, beautiful and versatile—that's how Gorell Armor Max Plus hurricane windows are described by many

homeowners who have them. These windows are specifically designed to give you the greatest-possible impact protection as well as beauty, cost-saving energy efficiency, ease of use and resistance to intrusion. Armor Max Plus windows are ideal for homeowners who live in practically any hurricane-prone area—even right on the coastline.

KEY FEATURES AND BENEFITS OF ARMOR MAX PLUS WINDOWS:

- Armor Max Plus impact glass system with three panes of glass and a protective polyvinyl butyral interlayer for exceptional protection.
- Rigid fusion-welded tubular master frame—with 13 separate chambers—for greater strength.
- Glass deeply embedded into the frame for optimum structural integrity.
- Heavy-duty constant force balance system—with stainless steel reinforced attachment points—for fingertip operation (double-hung model).
- Two heavy-duty locks for extra safety and security.
- Special double weather stripping to improve insulation and the window's thermal performance.

- High-performance Low-E and argon gas for extremely high thermal efficiency and ENERGY STAR® qualification.
- Distinctive dual millwork design on the interior master frame for an attractive appearance

Armor Max Plus windows have passed the ASTM E 1886/1996 tests for missile impact, as well as pressure cycling tests. They are certified to DP-50 Missile Impact Level "D" (140 mile-per-hour, Wind Zone 3).



Armor Max Plus windows are specifically designed to give you the best-possible impact protection.



The Armor Max Plus impact glass system, with three panes of glass and a protective interlayer, provides exceptional protection.



Special double weather stripping seals out drafts and dust and improves insulation.



Distinctive dual millwork lines on the interior master frame provide an attractive appearance.

Armor Impact Plus™ (AIP) Windows—for excellent storm protection and energy efficiency.



Gorell AIP windows protect homes against airborne debris from strong winds and other forms of violent weather.

Like all Gorell hurricane products, AIP Windows require virtually no preparation as bad weather approaches—you simply need to ensure they're closed and locked. These windows also offer a myriad of other benefits—including security, UV protection, beauty and sound deadening. AIP products can be used throughout most areas to within approximately two miles of the coast.

KEY FEATURES AND BENEFITS OF AIP WINDOWS:

- AIP hurricane glass system with three panes of glass and a tough laminated interlayer for superb protection.
- Fusion-welded, 14-chambered frames for strength and optimal insulation.
- Stainless steel constant force balance system for fingertip operation (double-hung models).
- Double push-button cam sweep locks to hold sashes in place for safety and security.
- Premium-grade weather stripping to improve overall window performance.

- High-performance Low-E coating and argon gas between the panes to provide excellent energy efficiency and ensure the window is ENERGY STAR® qualified.

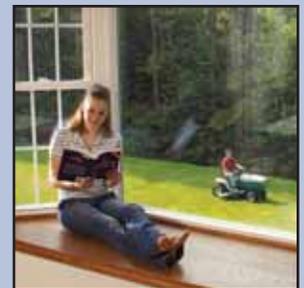
Armor Impact Plus windows have passed the ASTM E 1886/1996 tests for missile impact, as well as pressure cycling tests. They are certified to DP-50 Missile Impact Level "C" (130 mile-per-hour, Wind Zone 2).



Windows with the AIP glass system are highly resistant to forced entry and violent weather.



Help to protect your home furnishings from harmful ultraviolet rays with AIP glass.

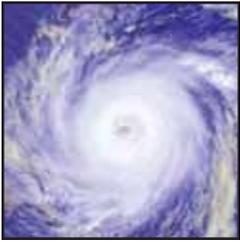


AIP windows are highly effective at keeping out exterior sounds.



AIP's high-performance Low-E coating and argon gas provide excellent energy efficiency.

6400 Series Patio Doors—for superb hurricane protection and numerous additional benefits.



6400 Series doors from Gorell are rigorously tested to provide outstanding performance even in the most severe

weather conditions. You won't have to worry about preparing your home for the storm with these doors. Instead, you can focus on more important things, like getting your family to safety and rescuing important documents, family treasures and belongings.

These doors are an ideal solution for homes in practically any area, but they are especially effective for homes in coastal areas. Plus, you'll enjoy benefits like standard "break-in" protection, years of smooth, reliable operation and a beautiful, distinctive appearance.

KEY FEATURES AND BENEFITS OF 6400 SERIES DOORS:

- Armor Max Plus impact glass system with three panes of glass and a protective polyvinyl butyral interlayer for exceptional protection.
- Heavy-duty reinforced door panels for maximum strength and durability.
- Stainless steel hardware that lasts a lifetime and never tarnishes or corrodes—even in coastal conditions.
- Two-point keylock for excellent security—and the option of using your door as a main entry point.

- Nylon tandem rollers for smooth, quiet operation.
- High-performance Low-E and argon gas for unparalleled thermal efficiency (ENERGY STAR® qualified).
- Elegant-looking handle design that contours to the shape of your hand.

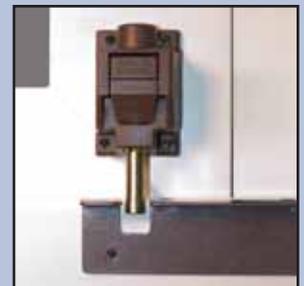
6400 Series sliding doors have passed the ASTM E 1886/1996 tests for missile impact, as well as pressure cycling tests. They are certified to DP-50 Missile Impact Level "D" (140 mile-per-hour, Wind Zone 3).



Rigorous testing ensures outstanding performance, even in the most severe weather conditions.



Nylon tandem rollers make 6400 Series doors remarkably smooth and quiet to operate.

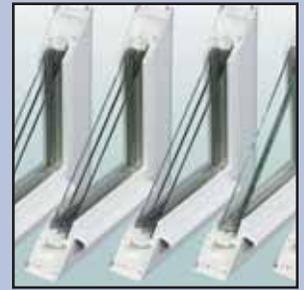
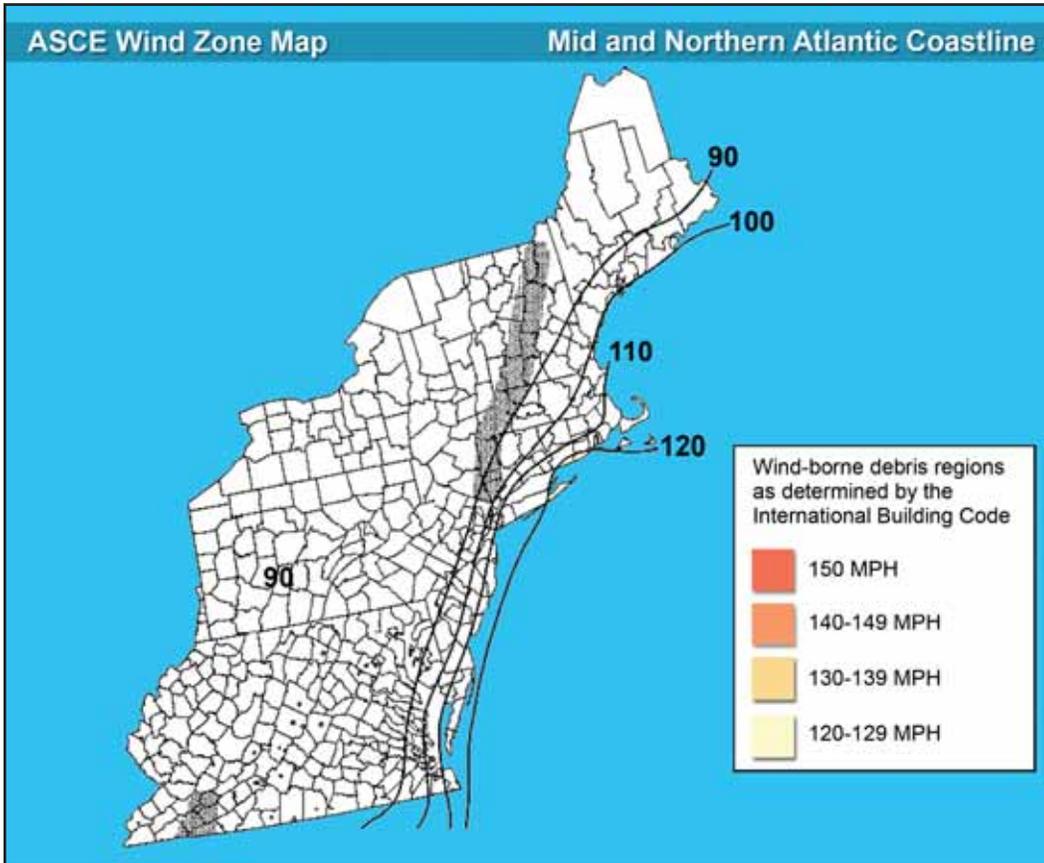


The optional secondary lock is an added safety and security measure for your peace of mind.



Beautiful handle design of 6400 Series doors contours to the shape of your hand. (Available in six interior hardware colors.)

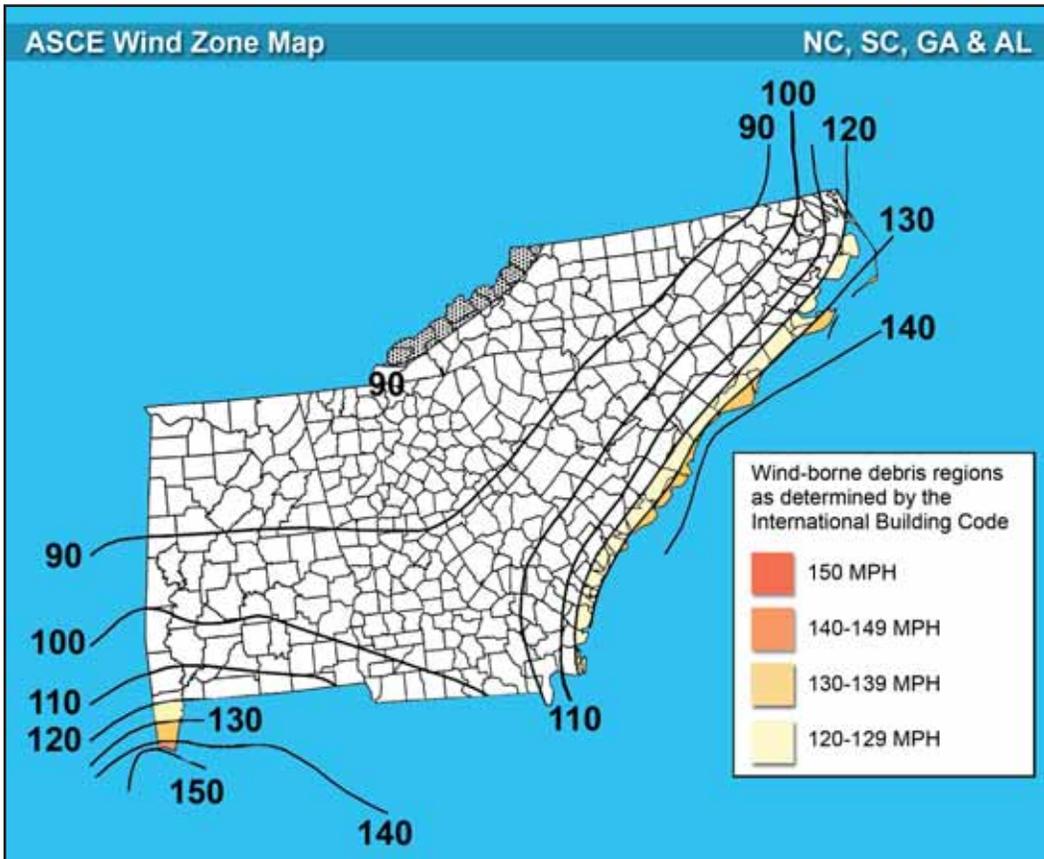
ASCE Wind Zone Maps



Determine the level of glass protection you need based on the location of your home.



Check with your local code office to ensure you have your county's current requirements.



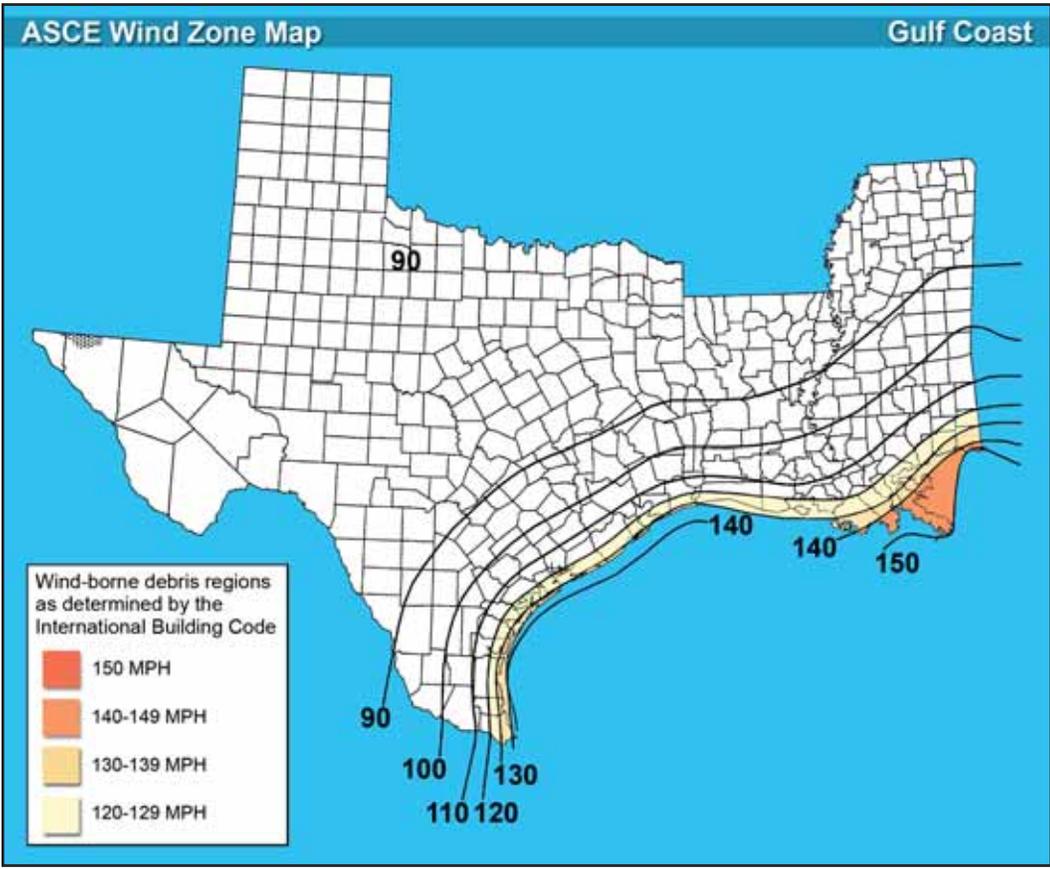
Ask your window professional for supporting documents that verify your windows meet local codes.



Consider other benefits important to you and your family—like energy efficiency and security.

These maps have been modified, with permission from ASCE, from ASCE 7-05 Wind Maps. Please view the wind maps in ASCE 7-05 for the approved wind maps.

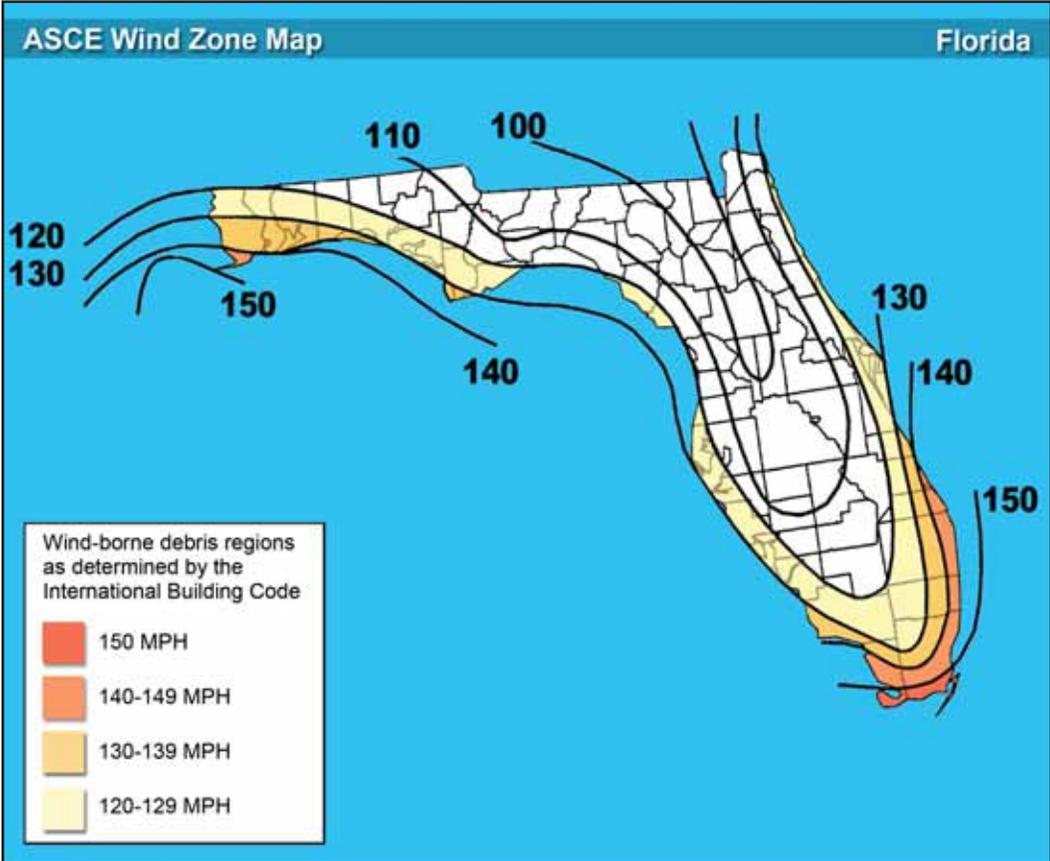
ASCE Wind Zone Maps



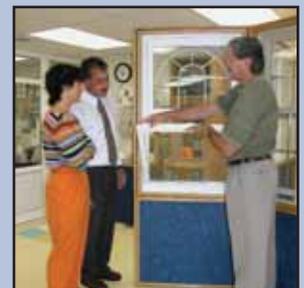
Choose the style of windows and doors that fit your needs.



Consider options such as internal grids for a traditional look that allows for easy cleaning.



Choose between a variety of vinyl color options or vinyl woodgrain patterns.



Visit your window professional to see all available options and discuss your personal needs.

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A Dozen Reasons to Choose Gorell Hurricane Products



Gorell hurricane impact products can withstand the force of flying objects and debris from even the most violent storms.

In addition to protecting your home and family, these windows also provide numerous other benefits.

GORELL HURRICANE WINDOWS AND DOORS:

1. Provide maximum protection in severe weather.
2. Meet required county and local codes.*
3. Match your home's architectural style.
4. Are highly energy-efficient to keep home energy costs low and make your home more comfortable.
5. Are a genuine "Green Solution" that's good for the environment.**
6. Protect your home and family against intruders.
7. Prevent your carpeting and furnishings from fading by filtering UV light—with FPF ratings as high as 50!
8. Deaden exterior noise.
9. Resist corrosion.
10. Are exceptionally easy to operate.
11. Require practically no maintenance.
12. Carry a limited lifetime warranty.

*Varies by county and locality.

** Double-hung AIP and AMP windows are Green Seal™ certified.

Contact your local Gorell dealer to discuss the options available to you—or visit www.hurricane-window.com for more information on Gorell impact-resistant products.



All vinyl hurricane windows made by Gorell—2006 to 2009 ENERGY STAR® Partner of the Year—are ENERGY STAR qualified.



Gorell—Exclusive partner with the NCPC, offering intruder-resistant hurricane windows.



Double-hung AIP and AMP impact windows are Green Seal certified.



Visit www.hurricane-window.com for more information.