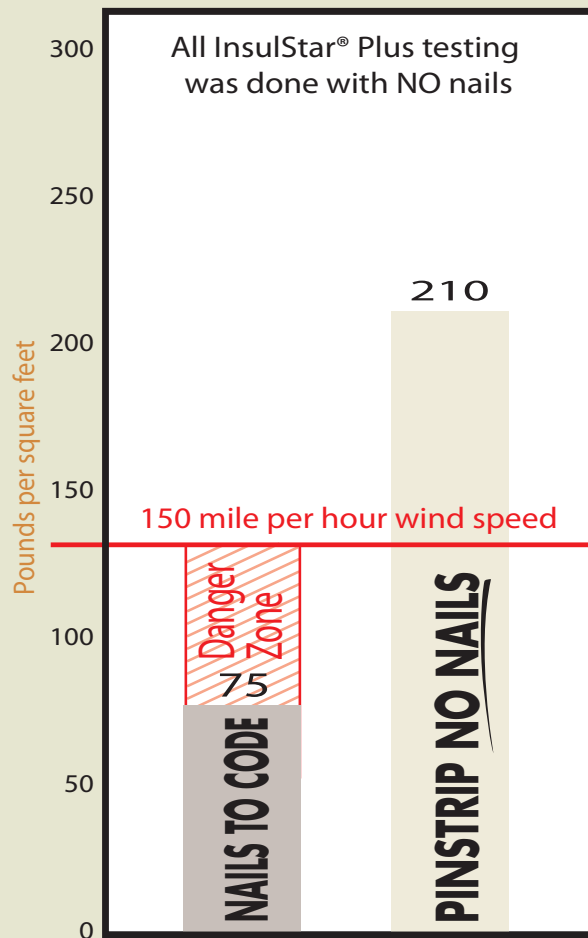


Wind Uplift Pressure Result



Insurance Mitigation Forms:

- Roof Deck Attachments
- Secondary Water Resistance (SWR)

Water Intrusion

Secondary Water Resistance (SWR)

99%
Water
Barrier

INSULSTAR®
WIND UPLIFT PROTECTION **PLUS**

10K 3-2010

A Hurricane Survivor's True Story

Mr. Gomez and his family live in Homestead, Florida, where they rode out Hurricanes Andrew (1992) and Wilma (2005). Both times, the family lost all the shingles from their home, but the roof system itself was virtually undamaged.

Mr. Gomez built his home in 1983, and two years later decided to install 1" foam adhesive to the underside of his roof to better insulate and strengthen his home. He claims that he didn't fully realize what a wise investment he'd made—how strong and water resistant foam adhesive truly is—until Hurricane Andrew blew through his neighborhood in 1992.

The eye of Hurricane Andrew passed directly over the Homestead area. The Gomez home became a safe haven for some 70 family members, friends and neighbors. The storm battered the house. By Gomez's account it took eight men and women to keep the garage door from collapsing. Despite losing his shingles, the only damage to the roof system was from the loss of an exhaust fan, which caused a minor leak in the kitchen area.

An elderly couple living in the same neighborhood wanted to ride the storm out in their own home. After the storm passed, the Gomez family went to check on them. They were found alive, huddled in a bathtub with their house completely destroyed around them. There was nothing left save the pile of debris. They did not rebuild and moved away from the area.

While the Homestead area was devastated by the hurricane, the U.S. Army deemed the Gomez's home the only usable, structurally-sound building they could use as a Central Relief Station. InsulStar® Plus high performance foam adhesive works!



For Peace of Mind...

State of Florida Product Approval #FL 9975

INSULSTAR®
WIND UPLIFT PROTECTION **PLUS**



Protecting your home

Protecting your family

Protecting the environment

InsulStar® Plus
**Wind Uplift
Protection**



InsulStar® Plus is a foam adhesive sprayed directly to the underside of your house's roof structure. It adheres the roof to the trusses from the inside (existing & new buildings). It also has outstanding insulation performance (R - value.) InsulStar® Plus can significantly reduce utility costs.

R value 1"= 6.8

R value 2"= 13

R value 3"= 19

By applying InsulStar® Plus to the underside of the roof sheathing, attic temperature is dramatically lowered. Standard A/C vents can have up to 10 – 15 degree difference in temperature from one vent to the next. After 1" InsulStar® Plus is sprayed, it should change to a mere 1 – 2 degree variance in temperature. Big improvement! No more hot/cold rooms.

Protecting Your Home From High Winds.

InsulStar® Plus is the most important green building product you'll never see.™

- InsulStar® Plus contains renewable agricultural products made from sugar cane, sugar beets and corn. NCFI has formulated spray polyurethane foams since 1966.
- Provides a higher R - value than conventional insulation, lowering monthly energy bills considerably.
- Reduces energy consumption, lessening your environmental impact and carbon footprint. (See example below)
- Helps improve indoor air quality (IAQ), keeping out pollutants, acts as a water barrier and is specially formulated to inhibit mold, mildew and bacterial growth.
- Promotes a sustainable design, because it never settles, shrinks, compresses or sags, maintaining its insulation sufficiency for the life of the structure.
- Contains no ozone-depleting chemicals. NCFI is the winner of an EPA Stratospheric Ozone & Climate Protection Award for extraordinary accomplishments and significant contributions to protect the environment.

Frequently Asked Questions

- Q.** What is S.W.R. (Secondary Water Resistance)?
A. It's an additional roof protection system if your roof fails.
- Q.** What is Deck Reinforcement?
A. Most likely, your existing roof decking is only secured by nails. InsulStar® Plus adheres the plywood decking directly to the trusses, making it 3 times stronger than code requires.
- Q.** Does InsulStar® Plus meet the requirements of local building codes?
A. Yes, (Florida Product Approval # 9975).
- Q.** Does InsulStar® Plus raise roof temperature?
A. Not significantly. Roof temperature is mostly affected by the color and the direction it is oriented.
- Q.** If I have a roof leak, will it rot my roof decking?
A. No. InsulStar® Plus is a Secondary Water Barrier and should prevent roof leaks.
- Q.** How will I know if I have a roof leak?
A. With most roof structures, leaks first show up as staining in the soffit and fascia areas.
- Q.** What is the difference between foam adhesive and foam insulation?
A. Foam adhesive attaches the roof to the trusses and keeps water out. InsulStar® Plus Foam Adhesive also provides insulation.
- Q.** Why is one A/C vent cold and others are not?
A. A/C ducts run through the attic, which can be 145-160 degrees in the summer. InsulStar® Plus lowers your attic to only 10 degrees above outside air temperature, preventing the air in the ducts from gaining temperature from the attic.
- Q.** Will Insulstar® Plus protect from tornadoes?
A. While wind and pressure patterns from tornadoes are different from hurricanes, 90% of all tornadoes are less than 150mph.
- Q.** What about hail damage?
A. Because it provides Secondary Water Resistance, it can prevent water intrusion even if the roof covering is damaged.



Q. Why does FEMA need so many blue tarps?
A. 85% of all damage came from roof failures.

Protecting the Environment.



135 OIL TANKERS

If one home in Florida saves 30% on energy costs that would save 840 gals. per year = (15) 55 gals. of crude oil per year.

If every Florida resident had InsulStar® Plus installed at only a 30% energy savings = 7,168,071,960 gals. of crude oil per year = 135 oil tankers

Building Owner Benefits

InsulStar® Plus High Performance Wind Uplift Protection

- Peace of mind (Priceless).
- Substantial insurance savings in most states.
- Lowers monthly energy bills.
- Tax rebates, energy credits & electric company rebates.
- Secondary Water Resistance (SWR).
- Three times stronger than nails only.
- Extends the life of your A/C unit.
- Provides superior R-value (greater than 6 per inch), reducing both heating and cooling costs.
- Creates an air barrier that eliminates leaks and energy loss.
- Specially formulated to inhibit mold, mildew and bacterial growth.
- Improves indoor air quality by keeping out dust and other pollutants.



www.insulstar.com/insulstarplus
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