

IRENE 2011 VS. SANDY 2012  
Building To Higher Standards Changed Everything

**New Jersey**



- Woodbridge NJ home owner rebuilds his ravaged home after Hurricane Irene hits in 2011.
- Sandy hits the rebuilt home and there is no damage
- Woodbridge Code Official States 35 homes with collapsed foundations after Sandy





2011 Hurricane Irene



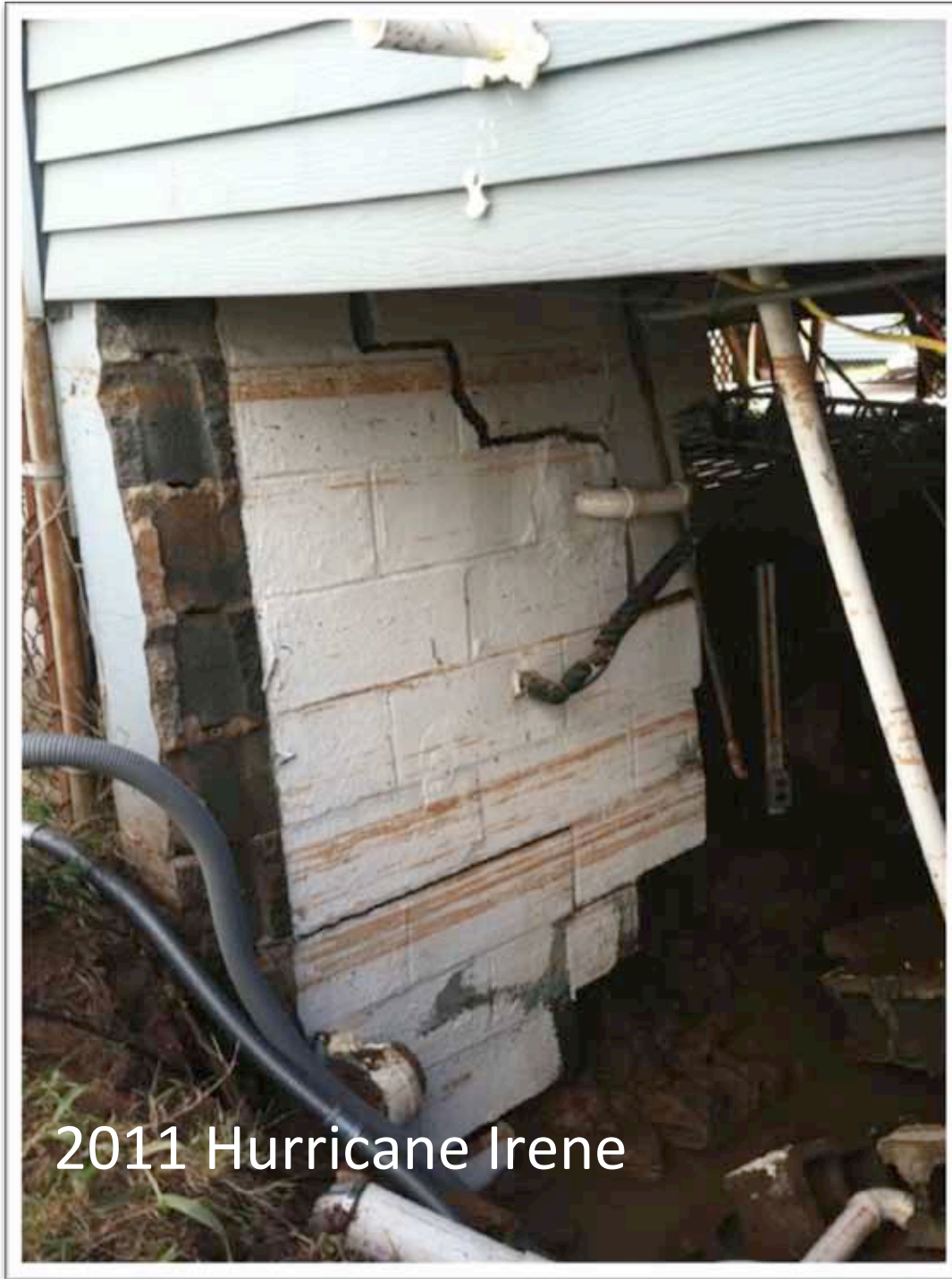


2011 Hurricane Irene





2011 Hurricane Irene



2011 Hurricane Irene



## Here is the testimonial from the customer that Smart Vent received (Initial Email)

"My home, along with many other on my block, was destroyed in Hurricane Irene. The tidal surge was so strong, and the water was so powerful, the pressure of the water outside pushed against my foundation walls causing them to give way and collapse. Many on my block decided to repair, but I decided to build a new house on the same property, but this time elevate it out of the floodplain. My contractor and engineer explained to me all about a product called Smart Vents. How they have a built in float to have the doors only open to allow flood water to enter, but otherwise stay closed and locked to keep animals out. I had 5 vents installed in my new foundation walls. Hurricane Sandy came by 3 weeks after moving back home, and hit my neighbor hard. At least a dozen houses, including some just repaired after Irene, had foundation collapses on my block. My foundation stood strong. Even though Sandy was a much more powerful storm, and water levels were much higher than Irene, there was no structural damage at all. The Smart Vents did their job, allowing water to enter the crawl space under the home, relieving all pressure from the foundation walls. When the flood waters receded, the water exited the crawl space perfectly through the vents. My house most likely would have severe damage to it without the Smart Vents Installed. To make things better, they even lowered my flood insurance bill."

Justin Kooy  
Woodbridge NJ

## Smart Vent asked for further information on the design of the new home (follow up e-mail)

“The BFE in my area is 9. The old house the basement floor was at 1.5 and first finished floor was at 9.5. For the new house the NJDEP and code official told us we could not have a basement and the first finished floor must be at minimum 11.6. We ended up at 11.85 I think. So almost 3 feet above the bfe. From what I can tell flood waters came up to about 10 during Sandy. Our mechanicals such as central AC units, needed to be elevated as well. We now have a crawl space under the house because there is no basement. We also did the poured concrete as you can tell, that actually goes all the way down to the original footing depth, and they just filled in with gravel, and poured the crawlspace floor as well at grade. The house is also hurricane rated attached with hurricane straps and bolts to the foundation, and also every joists of all the decks and porches have hurricane straps as well.

We ended up getting a major snow storm last night from that nor'easter, and again, lost power.”

Thanks,

Justin



2012 Hurricane Sandy







2012 Hurricane Sandy

