



## **The Icynene Insulation System<sup>®</sup> means mission possible for NEXTGEN04**

The Icynene Insulation System<sup>®</sup> was selected as the exclusive insulation for the NEXTGEN04 Demonstration Home due to its unique ability to create a Healthier, Quieter, More Energy Efficient<sup>®</sup> home that is also more affordable to own. Here are four key construction missions of the NEXTGEN04 project and how Icynene helps achieve this systems-built home's objectives of energy efficiency and construction quality.

### **Mission #1 – *Create superior indoor environmental quality (IEQ)***

NEXTGEN04 sets a standard for homes that are safer, quieter and healthier for their occupants. Icynene is a 100 percent water-blown, spray-in-place, soft foam insulation that forms a complete air barrier against outdoor pollutants, allergens and mold-causing moisture across the building envelope. It contains no harmful chemicals such as HCFCs, HFCs, HFAs or formaldehyde. Icynene also reduces noise from playrooms, plumbing runs, outside traffic and neighborhood activities.

### **Mission #2 – *Create an energy efficient and affordable home***

Affordability is a central goal of NEXTGEN04. Icynene will help the home exceed the model energy code and achieve energy cost savings of 37 percent over conventional insulation packages. Aside from lower monthly energy bills, Icynene also helps homeowners qualify for reduced rate mortgages, helps reduce insurance premiums and improves re-sale value.

### **Mission #3 – *Apply Building Science or a Systems Approach for sustainable construction***

NEXTGEN04 was designed around the principles of Building Science, an approach to building design and construction that considers how all building components interact to create an efficient, healthier, more durable structure. Icynene supports the application of Building Science in construction projects throughout North America. For example, in NEXTGEN04, Icynene's air-sealing properties enable improved HVAC management and rightsizing. Combined, homeowners can enjoy improved indoor air quality, increased energy efficiency and greater cost savings.

### **Mission #4 – *Demonstrate the advantages of a systems-built home***

NEXTGEN04 is a systems-built home, which was constructed in a controlled factory setting and will be assembled just outside the Las Vegas Convention Center during the 2004 International Builders' Show (IBS). Systems-built homes offer precision-engineering, faster construction and cost savings of 10 to 12 percent. Icynene reduces scheduling challenges during the factory-built process because, in one step, it creates a superior air-seal using less construction material. Icynene also facilitates the transport of the finished modules because it adheres to the construction material without shrinking, sagging or settling. Icynene enjoys an established track record in manufactured construction, including: a two-story modular high school, a modular home certified by the Earth Advantage program and designated a "Health House" by the American Lung Association and the Zero Energy Manufactured Home project (built in partnership with the U.S. Department of Housing and Urban Development [HUD] and the U.S. Department of Energy's Building America Program).

## **Award-Winning Icynene**

Icynene's mission to support design and trade professionals in perfecting building envelope performance will be rewarded at the 2004 IBS by HOME magazine. HOME will honor Icynene with the 2004 Building Product Award under the category of Building Materials. This award is based on criteria such as durability, safety, convenience and style, as well as on feedback from millions of readers.

## **Icynene @ International Builders' Show**

Icynene invites homebuilders and homeowners to see in person why NEXTGEN04 selected this proven tool to help demonstrate the evolution of energy efficient and healthier building products and systems. Visit Icynene (booth #1355) in the North Hall of the Las Vegas Convention Center during the International Builders' Show, January 19-22, 2004.

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