

## Environmental Characteristics

- CFCs or HCFCs none
- Formaldehyde none
- Corrosiveness negative
- VOCs after 30 days none detectable

## Flammability Characteristics

- Flame spread ASTM E84 <20
- Smoke developed <400
- Fuel contribution zero
- Oxygen index 23

## Physical Properties

- Density 0.5 lb/cf
- Thermal Resistance R-3.6/in
  - Heat flow reduction through 1" 72.7%
  - Heat flow reduction through 3.5" 92.2%
  - Heat flow reduction through 5.5" 95.0%
  - Heat flow reduction through 10" 97.3%
- Vapor permeance - 5" 10 perms
- Sound transmission class 37
- Noise reduction coefficient 70

## Evaluations and Approvals

B.O.C.A., I.C.B.O., S.B.C.C.I., N.E.S., C.C.M.C.

**This is a summary of the product specification. Please ask for full product specifications before using.**



## The Icynene Insulation System®

Healthier, Quieter, More Energy Efficient™

### Icynene® gets high marks

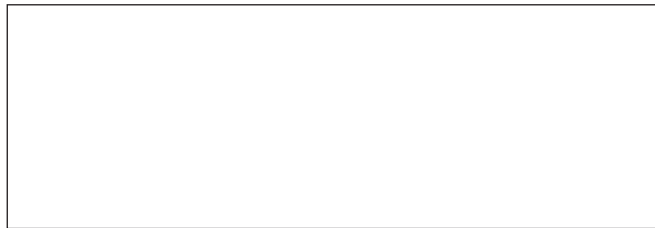
- The only insulation material certified by the Envirodesic™ Certification Program - *recognized for improving indoor air quality across North America*
- Featured in the American Lung Association Healthy House projects in Florida, Washington, Oregon, Iowa and Michigan

### Icynene®. The best insulation solution for your home.

**On the market since 1986, Icynene® has proven itself in thousands of homes across North America. Icynene® is the only fully-integrated insulation system offering a healthier, quieter, more energy efficient™ solution to maximum indoor air quality.**



**Find out more about The Icynene Insulation System® today!**



Visit our website: [www.icynene.com](http://www.icynene.com)

Toll Free: 888.946.7325



™ Healthier, Quieter, More Energy Efficient is a trademark of Icynene Inc.

Printed in Canada  
ICY2022

## The Icynene Insulation System®

Healthier, Quieter, More Energy Efficient™

# INSULATING METAL BUILDINGS





## A Quality Insulation Solution for Steel Framed Buildings

### Steel framed homes and The Icynene Insulation System®

Steel framing is beginning to be recognized as the cost-effective winner over wood across the entire spectrum of the residential housing market. Not only do they make economical sense, when properly constructed and insulated, steel framed homes can be every bit as energy efficient as wood framed homes.

However, insulating metal buildings comes with its own set of challenges. Eliminating air leakage, establishing thermal breaks and solving condensation problems require extensive detailing to ensure that the building performs to expectations.

#### That's where Icynene® comes in.

A remarkable spray-in-place soft foam insulation, Icynene® not only insulates, it air seals. Available for spray application or as a pourable foam, Icynene® expands and cures in minutes. As it expands, it forces its way into every corner and crevice completely filling the cavity to create its own continuous air barrier.

Icynene's gap-free foam repels moisture and virtually eliminates the need for a poly vapor barrier, a building wrap, and a lot of foaming, caulking and supervision (see local building codes).

## Meeting the Insulation Challenges for Metal Buildings

- ❏ Increased productivity - *a 2,500 sq. ft. building can be insulated in less than 2 days*
- ❏ Saves time and labor costs - *framer and air sealer involvement not required*
- ❏ Saves money - *four functions in one: building wrap, poly vapor/air retarder, caulking, professional air sealing and insulation*
- ❏ Eliminates moisture problems - *no more sweating ceilings, corrosion or moisture caused by air leakage*
- ❏ Controls air leakage - *vastly improves energy efficiency*
- ❏ Solves framing challenges - *fills any cavity, complicated ceiling designs are easy to insulate*
- ❏ Maintains original cured form - *does not shrink, sag or settle*
- ❏ Creates maximum indoor air quality
- ❏ Extends the life of the building and the systems within it
- ❏ In commercial buildings, Icynene is the one-application, permanent solution to corrosion problems and temperature control

## Icynene® Creates the Perfect Living Environment

### Healthier

- Environmentally friendly
- Completely air seals buildings
- Locks out dust, allergens, odors and pollutants
- Prevents mold and mildew
- No formaldehyde, CFCs, HCFCs or VOCs
- Safe for use by individuals who are chemically sensitive or suffering with allergies or asthma



### Quieter

- Eliminates vibration in plumbing walls
- Controls impact noises through partition walls
- Encapsulates home theaters for enhanced sound proofing
- Reduces outside noise such as airplanes, wind and traffic

### More Energy Efficient

- 30% to 50% energy savings each month!
- Performs at its full laboratory rated R-value, not a fraction of it
- R-Value equals 3.6 per inch
  - 2 x 4 equals R14 and 2 x 6 equals R20
- Eliminates air leakage
- Keeps temperature consistent - *less energy*
- Meets Energy Star™ mortgage requirements
- Enhances resale value
  - *good return on investment*

