

Environmental Characteristics

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

Flammability Characteristics

- Flame spread ASTM E84 <20
- Smoke developed <400
- Fuel contribution 0
- 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

*The assembly tested was a 2x4" wood stud wall (16" on center), 3.5" Icynene®, one layer of 5/8" gypsum board on each side.

Evaluations and Approvals

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

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



The Icynene Insulation System®

Healthier, Quieter, More Energy Efficient™

Icynene® gets healthy recognition

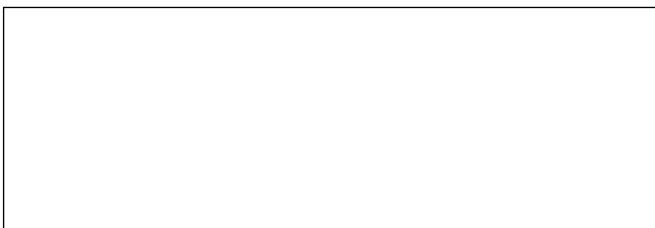
- The only insulation material certified by the Envirodesic™ Certification Program
 - recognized across North America for contributing to improved indoor air quality
- Featured in the American Lung Association's National Health House® projects

Icynene® is the high-performance insulation for complex insulation application.

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® environment for maximum indoor air quality.



Find out more about The Icynene Insulation System® today!



Visit our website: www.icynene.com

Toll Free: 800.758.7325



The Icynene Insulation System®

Healthier, Quieter, More Energy Efficient®

INSULATING METAL BUILDINGS



Printed in Canada
ICY-MET/1

A Superior Insulation for the Perfect Fill in Steel-Framed Buildings

The Icynene®-Insulation Steel-framed Structure

Steel framing is beginning to be recognized as the cost-effective winner over wood. Not only does it make economical sense but, when properly constructed and insulated, a steel-framed structure can be every bit as energy efficient as a wood-framed one.

However, insulating a metal building or dwelling 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 or dwelling performs to expectations.

Icynene® introduces the most effective approach for sealing the steel-framed building or dwelling. A remarkable soft foam insulation, Icynene® not only insulates, it air seals. Available for spray application or as a pourable foam, Icynene® expands and cures in seconds. As it expands, it forces its way into every corner and crevice to completely fill the cavity and create its own continuous air barrier.

Traditional building envelope moisture concerns are eliminated with the Icynene® application due to its low air permeance - a property that classifies the insulation as an air barrier. Therefore, there is no moisture movement through The Icynene System® via air transfer (which accounts for 99% of moisture migration and subsequent problems).

Meeting the Insulation Challenges for Metal Framing

- ❏ Contains no CFCs - a chemical that causes corrosion of metals with which it is in contact
- ❏ Expedites the construction process to save time and money - *optimal airtightness is achieved without excess sealing material*
- ❏ Provides advanced moisture management - *no more sweating ceilings, corrosion or moisture caused by air leakage*
- ❏ Controls air leakage *for increased energy efficiency*
- ❏ Solves framing challenges - *fills any cavity, even intricate ceiling designs*
- ❏ Maintains original cured form - *does not shrink, sag or settle*
- ❏ Contributes to improved indoor air quality
- ❏ Extends the life of the building or dwelling and the systems within it
- ❏ Reduces maintenance - *roof leaks do not impede insulation performance because Icynene®'s hydrophobic properties allow water to drain through the material*

Icynene® is the ideal base for any-shaped steel frame... and MORE

Healthier

- “Green” building product
- No formaldehyde, CFCs, HCFCs, HFCs, HFAs
- Air-sealing properties to lock out dust, allergens, odors and pollutants
- Minimizes condensation and the potential for mold growth
- Recommended for individuals who are chemically sensitive or suffering from allergies or asthma



Quieter

- Eliminates noise in plumbing walls
- Reduces room-to-room noise levels in the home
- Encapsulates home theaters for enhanced soundproofing
- Reduces outside noise caused by airplanes, wind and traffic

More Energy Efficient

- Eliminates air leakage to save up to 50% in energy bills each month
- Maintains consistent indoor ambient temperature using less energy
- Enhances home resale value for a higher return on investment
- Contributes to meeting Energy Star™ mortgage requirements

