## Setting the Standard



In 1982, Atlas consisted of a single asphalt shingle manufacturing facility. Today, Atlas is a leader in the roofing industry and a driving force in the green movement, committed to going "beyond the code" when it comes to building design and construction. Atlas is one of the world's leading manufacturers of polyisocyanurate insulation materials. Polyiso is a closed-cell, rigid foam board insulation used primarily on the roofs of commercial buildings where high thermal performance is essential. Due to the material's contribution to energy efficiency throughout a building's useful life, environmentally aware architects, contractors and building owners recognize the vast benefits of choosing polyiso as their insulation material.



Corporate Sales & Marketing 2000 RiverEdge Parkway Suite 800 Atlanta, GA 30328

www.AtlasRoofing.com 1.800.388.6134

For More Information about Green Initiatives including a free copy of the EnergyWise Roofing Calculator, information about Green Polyiso and the revisions to ASHRAE 90.1 please visit:

> www.GreenPolyiso.com www.isological.com www.OneDegreeChange.com



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LEADERSHIP INNOVATION RESPONSIBILITY





# Polyiso Insulation Solutions That We Can All Live With

#### **APPLICATIONS**

Polyiso can be used as flat insulation for low slope roofing, and can be tapered to provide positive roof drainage, a key element in sustainable roofing. The material can also be used as cavity wall or sheathing insulation in both commercial and residential buildings.

## DURABILITY

#### Polyiso panels are:

- dimensionally stable
- resistant to many solvents used
  in construction adhesives
- suitable for almost any climate with service temperatures in the range of -40° F to 200° F
- approved by the strictest fire performance tests, having earned FM 4470 Class 1 and UL 1256 ratings

### **ENERGY EFFICIENCY**

Polyiso insulation is the most thermally efficient insulation material in the marketplace, with LTTR-values in the range of 3 to 25, in a single layer depending on thickness. Polyiso is the only roofing insulation material with a third party certification program. As a result, Atlas ACFoam II and ACFoam III have earned certification in the PIMA Quality Mark<sup>™</sup> program.

#### **LTTR-VALUE**

LTTR-value is a measure of the long term thermal resistance of a building nsulation material based on a 15-year weighted average. Even 15 years is short in the scale of a building which may have a lifespan of 50-100 years, which is why we measure how an R-value can change over time.

### QUALITY MARK

The PIMA Quality Mark is a voluntary third party certification of LTTRvalue administered by FM Global, one of the nation's most dependable testing organizations.

# Going Beyond the Code: Atlas & Green Polyiso

Atlas is proud of its recognized history of environmental leadership. Atlas was the first polyiso manufacturer in the industry to cease the use of Chloro-Fluoro Carbons (CFC's) in 1993 and Hydro-Fluoro Carbons (HCFC's) in 1998, years ahead of the Montreal Protocol deadline for compliance. This made Atlas the first polyiso manufacturer with zero Ozone Depletion Potential (ODP). But that's not all: as a result of the same technological innovations, Atlas polyiso has virtually zero Global Warming Potential. This is especially important in light of the Kyoto Protocol and today's growing concern over global warming and climate change. As the only polyiso manufacturer to design and manufacture its own facers, Atlas is also leading the way in incorporating environmentally friendly products with high levels of recycled content.

> Today, continuing in our tradition of leadership in promoting high levels of energy efficiency, Atlas actively supports the American Society of Heating, Refrigerating & Air-Conditioning Engineers (ASHRAE) recent revisions of minimum required R-values in the new 90.1 Standard. These revisions represent the first increase in minimum roof and wall insulation R-values in almost 20 years.

> > Thanks to the Leadership in Energy & Environmental Design (LEED) Green Building Rating System and other "Beyond the Code" initiatives such as Architecture 2030, many specifiers, architects, and designers will recognize the increased minimum R-values as the new base for exceeding the code. Atlas fully supports these powerful initiatives and with the monumental revisions to ASHRAE 90.1, we take pride and responsibility in providing valuable resources for making environmentally sound, cost effective decisions in building design.



## Why Use Polyiso?

Beyond the energy savings over the life of a building, there are several incentives for choosing polyiso insulation. Polyiso can help you qualify for tax deductions under the Energy Policy Act of 2005. Polyiso roof insulation can also help building owners, architects and specifiers gain credits under two of LEED's six rating categories.

#### ENERGY & ATMOSPHERE

#### Minimum Energy Performance: Prerequisite 2

Thermally efficient polyiso helps to exceed ASHRAE 90.1-1999 and local energy codes. *Optimize Energy Performance: Credit 1* 

Polyiso provides the highest thermal resistance per inch of material and can economically contribute to achieving one of the LEED levels of optimized energy performance.

## MATERIALS & RESOURCES

#### **Building Reuse: Credit 1**

Polyiso can be and often is reused when building renovations include recover roof applications or partial tear offs in which only the membrane is removed. *Construction Waste Management: Credit 2* 

If the total percentage of reused materials in a project does not meet the minimum levels stated in Materials & Resources: Credit 1, Building Reuse, these reuse activities can be applied to this credit. *Recycled Content: Credit 4* 

Atlas ACFoam-II insulation contains anywhere from 16% to 43% recycled content by weight, depending on thickness. 57% of the recycled material is post-consumer waste and 43% is pre-consumer waste. This can be used toward one of the levels of recycled materials credit. *Local/Regional Materials: Credit 5* 

Atlas has polyiso insulation plants across North America and procures raw materials as close to the plant as possible, so for many projects Atlas polyiso can help qualify for credit for procurement of building materials within 500 miles of the job site.

