



### Local Production and Support

Atlas has the largest production footprint of any polyiso manufacturer. Choose Atlas for quick access to the products you need.

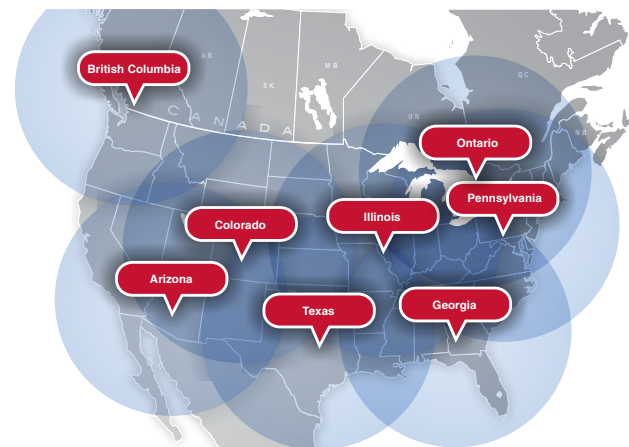
### Partnership Advantages

Atlas is a leading partner with decades of experience and a global reputation for commercial wall insulation and enclosure innovation. The Atlas Roofing Corporation, which began in 1982 and now has 19 plants, consists of 6 major divisions that produce the following products for your business: shingles, roof underlayments, polyiso roof insulation, polyiso wall insulation, expanded polystyrene (EPS), and facers.

### Coverage to Support LEED® and Local Building Needs

Most U.S. and Canada locations can potentially earn LEED® credit for local regional materials, with <500 mile distance from project to production facility.

No one covers North America like Atlas



**ATLAS ROOFING CORPORATION**  
POLYISO WALL AND ROOF LOCATIONS

Corporate Sales & Marketing  
2000 RiverEdge Parkway, Suite 800, Atlanta, GA 30328  
(770) 952-1442

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|---|---|--|---|
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| <b>Diboll, TX</b><br>(800) 766-1476<br>Fax: (936) 829-5363    | <b>East Moline, IL</b><br>(800) 677-1476<br>Fax: (866) 740-6019 | <b>Phoenix, AZ</b><br>(800) 477-1476<br>Fax: (602) 477-8897    | <b>Vancouver, BC</b><br>(855) 265-1476<br>Fax: (604) 395-8365 |



MADE IN U.S.A. MADE IN CANADA

[www.AtlasWallCI.com](http://www.AtlasWallCI.com)

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## Solutions For Greater Energy Efficiency

High R-value Continuous Insulation (CI) for Wall Assemblies

Rigid Multi-Use Polyiso Insulation Board



Continuous, High Performance Thermal Protection

[www.AtlasWallCI.com](http://www.AtlasWallCI.com)

### Why Atlas Wall CI Board?

- Leading performance compared with Extruded Polystyrene (XPS), Expanded Polystyrene (EPS) and mineral wool
- 15-year thermal performance warranty for true CI with no thermal bridging
- Air and moisture barriers that are field proven, lab tested, and code compliant
- Energy efficiency levels designed to meet IECC, ASHRAE 90.1 and IgCC prescriptive approaches, and LEED® energy efficiency requirements
- Meets fire ratings and codes with low flame/smoke propagation
- Chars in place and doesn't drip like other plastics
- Stable, durable, non-corrosive; compatible with most sealants and adhesives
- Lightweight and easy to install with standard tools and typical fasteners

### Why Today?

New, better ways to build exterior walls are now prescribed by the U.S. model energy codes – including the International Energy Conservation Code (IECC) – or based on ASHRAE Standard 90.1-2010. Major changes include the use of continuous insulation (CI), because it provides an uninterrupted thermal barrier over an entire wall, not just in wall cavities between studs or columns.

**Continuous Insulation (CI):** insulation that is continuous across all structural members without thermal bridges other than fasteners and service openings. It is installed on the interior, exterior, or is integral to any opaque surface of the building envelope.

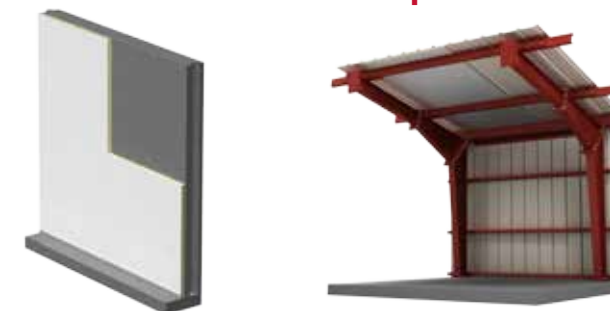
— ANSI / ASHRAE / IES Standard 90.1-2010

### Building Science

It has been proven conclusively that CI is the most effective way to insulate building envelopes for energy savings. A layer of exterior CI can eliminate thermal bridging through structural steel, steel or wood framing and masonry walls. Without CI, heat or cold bypasses the batt insulation, draining energy through the “thermal shorts” of studs, purlins, and columns. More than 90% of the U.S. jurisdictions prescribe the use of CI for steel-framed walls above grade.

Closed-cell polyiso insulation is an effective choice for CI and Atlas is a leader in polyiso roofing product performance. Wall CI Board products are designed and manufactured in the United States and Canada by Atlas Roofing Corporation. For over 30 years, Atlas has served as an innovative, customer-oriented manufacturer of residential and commercial building materials. Atlas operates 19 state-of-the-art manufacturing plants in North America, with eight dedicated to the Atlas Wall CI Board product family.

### Illustrative Examples



**Metal Building/Tilt-Wall Insulation**

Tilt-Wall | Engineered Metal Building Wall or Ceiling



**Commercial Insulation**

EnergyShield® PRO Over CMU | EnergyShield® PRO2 Over Steel Framing  
Shown with brick. | Shown with metal panels.



**Houses & Light Commercial Insulation**

Rboard® Over Wood Framing | EnergyShield® Over Wood Framing  
Shown with siding. | Shown with brick.



## EnergyShield®

### PRODUCT DESCRIPTION

**EnergyShield®:** Polyiso CI, front-reflective foil facer, back-acrylic-coated foil facer.

Atlas EnergyShield® rigid insulation has a closed cell polyisocyanurate (polyiso) foam core. It combines high R-value, enhanced durability, and water resistive attributes in a high performance rigid insulation board. Suitable for a variety of continuous insulation applications.



### ENERGYSHIELD® THERMAL VALUES

| R-Value* | Nominal Board Thickness** | R-Value* | Nominal Board Thickness** |
|----------|---------------------------|----------|---------------------------|
| 3.3      | 0.5"                      | 10.5     | 1.6"                      |
| 5.0      | 0.75"                     | 13.1     | 2.0"                      |
| 6.5      | 1.0"                      | 19.7     | 3.0"                      |
| 9.8      | 1.5"                      |          |                           |

### RBOARD® THERMAL VALUES

| R-Value* | Nominal Board Thickness** | R-Value* | Nominal Board Thickness** |
|----------|---------------------------|----------|---------------------------|
| 3.0      | 0.5"                      | 12.1     | 2.0"                      |
| 4.5      | 0.75"                     | 15.3     | 2.5"                      |
| 6.0      | 1.0"                      | 18.5     | 3.0"                      |
| 9.0      | 1.5"                      | 21.7     | 3.5"                      |

### NOTES:

\* Conditioned thermal values were determined by ASTM Test Method C518 at 75° mean temperature. Test specimens were conditioned in accordance with procedures outlined in ASTM C1289, Section 11.1.2.1

\*\* "R" means resistance to heat flow. The higher the R-value, the greater the insulating power.

• Other sizes available upon request. Contact your local Atlas sales office.

• Panel sizes are 4' by 8' or 4' by 9'. Panels can be supplied in nominal 16" or 24" widths for use in cavity wall applications. Custom sizes are also available.



## Rboard®

### PRODUCT DESCRIPTION

**Rboard®:** This insulation has non-reflective coated glass-mat facers on both sides and has a closed cell polyisocyanurate (polyiso) foam core. It combines high R-value, enhanced durability, and water resistive attributes in a high performance rigid insulation board, suitable for a variety of continuous insulation applications. This product is much more vapor open than foil faced products.

### SPECIFICATIONS

- Rboard®: ASTM C1289, Type II, Class 2
- EnergyShield®: ASTM C1289, Type I, Class 1
- ASTM E84 Flame Spread Index <75
- Vapor permeance greater than 1 perm at 1 inch thick (Rboard®)
- Vapor permeance less than 0.1 perm at 1 inch thick (EnergyShield®)
- For Residential and Type V light commercial construction

### COMMON APPLICATIONS INCLUDE

- Exterior or interior (with a thermal barrier) insulated sheathing for walls framed with wood or steel studs
- Exterior cavity walls
- Exterior or interior CI (with a thermal barrier) for cmu/block/concrete wall systems
- Exterior CI for installation over wood or gypsum sheathings
- Use over existing cladding to improve energy efficiency and provide a level surface prior to installing new cladding
- Approved for use in attics and crawlspaces without requiring the use of an ignition barrier (ICC-ES A12, Appendix B)

## EnergyShield® PRO

## EnergyShield® PRO2



### PRODUCT DESCRIPTION

Atlas EnergyShield® PRO and EnergyShield® PRO2 are composed of a Class A fire rated closed cell polyisocyanurate (polyiso) foam core faced with an embossed and logoed white acrylic coated aluminum foil facer on the front and a reflective foil facer on the back. Both combine high R-value, Class A durable aluminum facers, and water resistive barrier attributes in a high performance rigid insulation board. EnergyShield® PRO2 features glass reinforcement in the polyiso core, while EnergyShield® PRO does not.

### SPECIFICATIONS

- EnergyShield® PRO: ASTM C1289, Type I, **Class 1**
- EnergyShield® PRO2: ASTM C1289, Type I, **Class 2**
- Both are ASTM E84 Flame Spread Index <25 and have an extensive listing of NFPA 285 approvals for commercial exterior walls. **IBC model code REQUIRES Class A (Flame Spread Index <25) for all foam plastics on exterior commercial walls.**
- For Types I-V commercial and residential applications

### COMMON APPLICATIONS INCLUDE

- Exterior cavity walls
- Exterior/interior insulated sheathing for walls framed with wood or steel studs
- Exterior or interior CI for cmu/block/concrete wall systems
- Exterior CI for installation over wood or gypsum sheathings
- Use over existing cladding to improve energy efficiency and provide a level surface prior to installing new cladding
- Interior walls only, or interior ceilings only, without requiring a code-approved thermal barrier (approval per NFPA 286) in certain building types

### ENERGYSHIELD® PRO & PRO2 THERMAL VALUES

| R-Value* | Nominal Board Thickness** | R-Value* | Nominal Board Thickness** |
|----------|---------------------------|----------|---------------------------|
| 5.0      | 0.75"                     | 13.1     | 2.0"                      |
| 6.5      | 1.0"                      | 16.0     | 2.5"                      |
| 7.5      | 1.2"                      | 19.7     | 3.0"                      |
| 9.8      | 1.5"                      | 20.2     | 3.1"                      |
| 10.5     | 1.6"                      |          |                           |

## Infinish® ES

## Infinish® ES2



### PRODUCT DESCRIPTION

Infinish ES and Infinish ES2 are composed of a Class A fire rated closed cell polyisocyanurate (polyiso) foam core faced with an embossed and scrub resistant, plain white acrylic-coated aluminum foil facer on the front and a reflective foil facer on the back. Infinish products combine high R-value and Class A durable aluminum facers in a high performance rigid insulation board designed for interior exposed/interior visible applications. Infinish ES2 features glass reinforcement in the core to meet ASTM C1289 Type I, Class 2 and intended to improve fire response.

### SPECIFICATIONS

- Infinish ES: ASTM C1289, Type I, **Class 1**
- Infinish ES2: ASTM C1289, Type I, **Class 2**
- ASTM E84 Flame Spread Index <25
- NFPA 286 approvals interior walls only or interior ceilings only

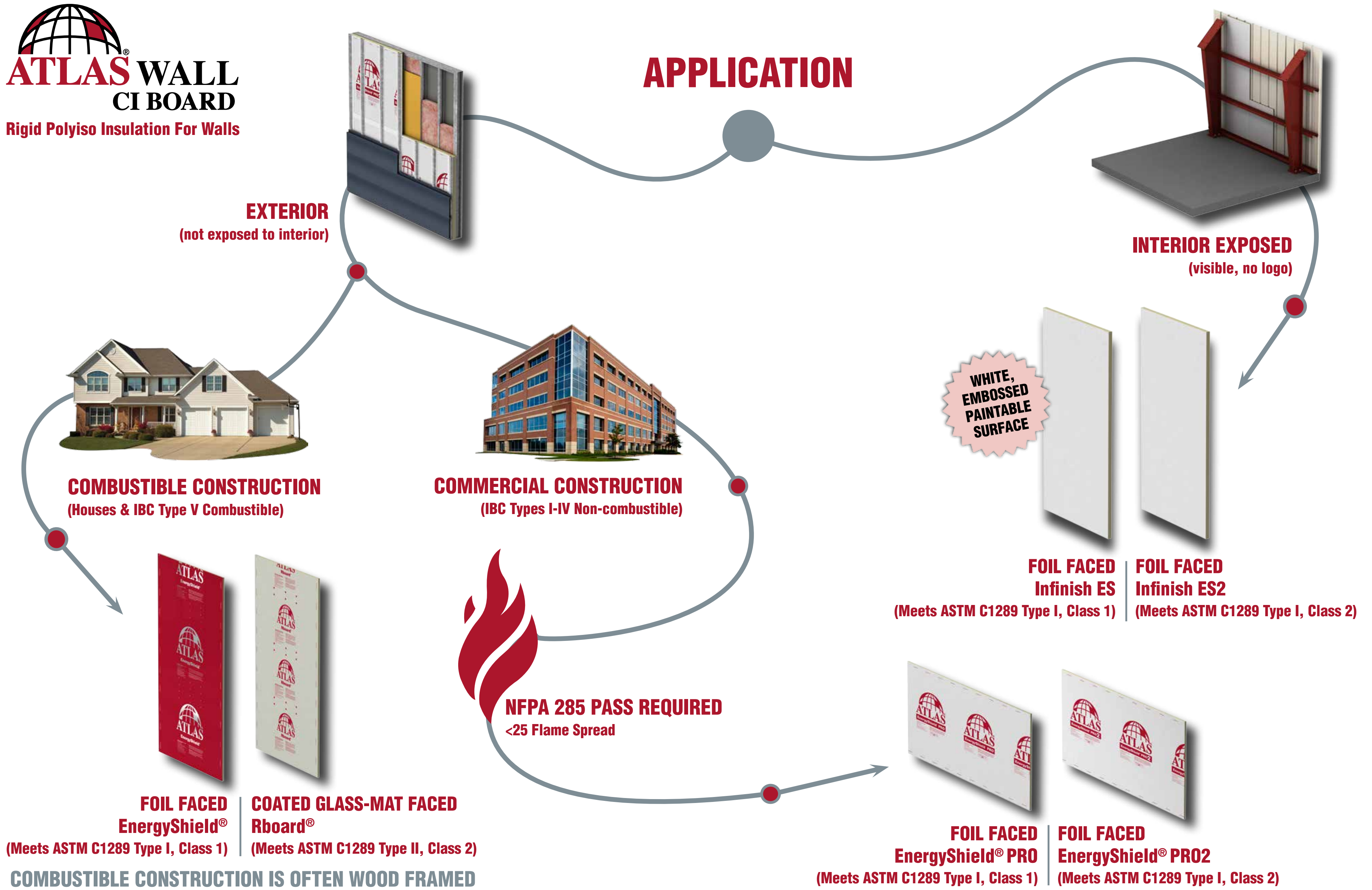
### COMMON APPLICATIONS INCLUDE

- Masonry walls (above grade and tilt-up)
- Interior CI walls framed with wood or steel studs
- Pre-engineered metal building walls or ceilings
- Post and Beam buildings
- Below-grade basement interior walls
- Crawl space interiors

### INFINISH ES & ES2 THERMAL VALUES

| R-Value* | Nominal Board Thickness** | R-Value* | Nominal Board Thickness** |
|----------|---------------------------|----------|---------------------------|
| 5.0      | 0.75"                     | 13.1     | 2.0"                      |
| 6.5      | 1.0"                      | 16.0     | 2.5"                      |
| 7.5      | 1.2"                      | 19.7     | 3.0"                      |
| 9.8      | 1.5"                      |          |                           |

# APPLICATION



# ATLAS WALL CI PRODUCT SELECTOR

NOTE: THIS CHART IS A HELPFUL TOOL, NOT AN EXACT TOOL. EXCEPTIONS ARE NOT UNCOMMON.