



Eco-Panels brings together the technologies of polyurethane panel manufacturing, a systems approach to building design and new product innovations into the structural and insulated panel industry.

Our goal at Eco-Panels is to meet your demands for quality, economy, and on-time delivery. By designing a system that eliminates many opportunities for error (OFE) in the field, we can help to ensure that you receive a stronger, safer, more comfortable and more energy efficient building envelope than traditional stick or other panel systems.

Independent engineering testing conforming to ASTM E72-96 and E84 standards confirm the integrity and strength of our panels. Eco-Panels is able to build panels to your plans and specifications to ensure your structure is easily built and affordable.

Our manufacturing, fabrication and assembly plant is located in a 22,500 sq.ft. facility adjacent to I-40 in Mocksville, North Carolina. Our location provides easy access from the mountains to the coast, from the Gulf region to Canada. With access from I-85, I-95, I-77 and I-40, the company is in the center of a major southern trade region. Eco-Panels proximity to several seaports on the east coast also allows access to the international marketplace.

By producing a superior product with superior service our commitment to customer satisfaction is the goal of everyone at Eco-Panels.

**For more information:**

Call: 336-936-0148

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Website: [www.eco-panels.com](http://www.eco-panels.com)

## USES FOR ECO-PANELS

- Stand Alone Buildings
- In-Plant Offices
- Environmental Rooms
- Movie Theaters
- Quick Service Restaurants (QSR)
- Garages
- Reduced Noise Offices
- Refrigeration Buildings
- Agricultural Buildings
- Storage Buildings
- Clean Rooms
- Mobile Labs or Shelters
- Electronic Equipment Shelters
- Recreational/Leisure Homes
- Convenience Stores
- Curing Barns
- Residential Homes
- Roofs for Log Homes
- Insulated Curtain Walls
- Curtain Wall

## KEY BENEFITS

### To Builder/Developer:

**Faster Construction & Dry-In**  
**Fewer Construction Errors**  
**Reduced Job Site Waste**  
**Fewer Call-Backs & Claims**  
**Possible Tax Credits**

### To Building Owner:

**Energy Savings**  
**Quieter, Stronger Structure**  
**More Comfortable**  
**Improved Air Quality**  
**Fire Safety**  
**Reduced Insurance Losses**  
**Reduced Carbon Footprint**  
**Lifetime Product Warranty**

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Providing Strength, Stability and  
Energy Savings for  
Tomorrow's Buildings — Today!

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**Structural Strength**  
**Energy Savings**  
**Flexible Design**  
**Construction Ease**  
**Labor Savings**  
**Superior Design**  
**Quality Built**  
**Economical**  
**Affordable**  
**Quieter**  
**Safer**  
**More Comfortable**



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**OUR MISSION: To build the best structural insulated panel products available, which are reasonably priced, durable, energy efficient and easily assembled, for commercial or residential, domestic or export use.**

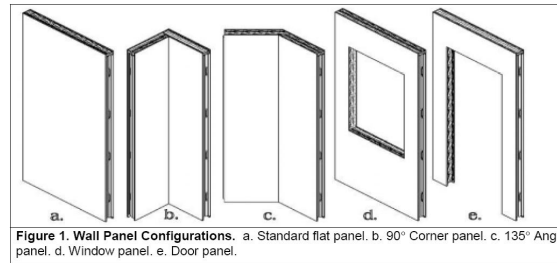
## Eco-Panels Unique Features

- Profile edges and foamed-in-place headers and bottom voids assure components fit together tightly.
- Your choice of exterior/interior surfaces, including:
  - Oriented Strand Board (OSB)
  - Fiber Cement (FC)
  - Metal (Galvanized, Stainless Steel)
  - Fiber Reinforced Plastic Laminate
  - Huber's ZIP® System
  - Louisiana Pacific's (LP) Smartside®
- One-piece 90° corner panels make your building stronger, straighter and more energy efficient. "Butting" of panels in corners is eliminated. The results are square corners that reduce racking (leaning) and a stronger building insuring correct installation as you join them together.
- One-piece 135° panels enable architectural enhancements such as bay windows and octagon buildings.
- Class 1 urethane foam mixture provides a panel that does not contribute to flame spread.
- Foamed-in-place rails and joint profile add stability and strength.
- Steel Cam-Locks pull the panels tightly together to virtually eliminate air infiltration creating an airtight wall.
- Electrical and cable chases can be imbedded inside the panels for ease of wiring.
- Door and window openings can be placed in a panel for onsite installation.

## THE PRODUCT

Eco-Panels structural insulated panels (SIP's) are unique, flexible and versatile. We produce panels for floors, walls, and roofs in a variety of surface faces. In addition, special one-piece 90° corner and one-piece 135° angle panels enhance flexibility in design while increasing strength and integrity in the structure. Standard wall panels include top plate, cam-locks and imbedded rails for additional strength, fit and stability.

### Standard Wall Panels – Custom Panels Avail.



Width: Flat - Max. 48" Corner - Max. 28.5" x 28.5"

Height: Standard 8',10',12',16' Corner 12' max.  
Thickness: 4-1/2" (2 x 4 core) Insulation - R26  
6-1/2" (2 x 6 core) Insulation - R40

Several options are available for finished outside or inside wall surfaces. Commercial applications, tropical or coastal might use BluWood® treated or Fiber Cement or metal surfaced panels. These panels resist insects, inhibit fungus growth, possibly flame and can be painted or stained. Oriented Strand Board (OSB) surfaces will allow you to select and install your own exterior finish, whether brick, vinyl siding or other finishes.

Our organic-based and formaldehyde free foam contains no CFCs or HCFCs and has zero ozone-depleting potential. This foam insulates at approximately R7 per inch. Where higher strength, thermal and sound insulation is desired, a 6-1/2" (R40) panel will provide superior protection. Our standard 4-1/2" panel offers an insulation value of R26. By

comparison, it takes 10" of fiberglass insulation or a 7 1/2 panel using 1-lb density EPS (like Styrofoam) to equal our insulation value.

A unique feature of the Eco-Panels system is the interlocking cam-locks. The system, imbedding keyed cam-locks into the panel edge, draws and secures walls, roof and floor panels together. Together with the edge rail, the cam-lock system joins panels easily, accurately and securely giving you a structure that is closed-to-the-weather in hours instead of days. The result is a construction process that is quick, easy and solid; resistant to gravity, wind or seismic forces.

On our manufacturing floor the sides and accessories are assembled forming a hollow cavity. Eco-Panels are characterized by the remarkable strength attained when a urethane mixture is injected into the cavity, where it expands, bonds and cures to bind all the components into one solid structural piece. The result is a solid, durable, and extremely energy efficient building panel.

Much like a puzzle, numbered Eco-Panels are assembled piece-by-piece per your unique plan. When the panels are secured together, they provide a superior building envelope. Because of the manufacturing methods and the edge design, there is minimal loss of heat due to "Thermal Wicking" of structural members that other panel and construction methods possess. Thermal Wicking, infiltration and condensation are seldom mentioned when a building is being designed, but in the long run it can cost you comfort and thousands of dollars in utility bills.

These panels offer an affordable attractive alternative to conventional construction techniques and provide more strength than standard 2x4, 2x6 or EPS panel systems.

Panels can be delivered by truck or packaged to ship anywhere in the world.