

**TRI STATE**

**FOAM**

## Roofing With EPS

EPS roof insulation has been in use for over 35 years in both new and remodeling construction. This lightweight foam insulation comes in either tapered or direct-to-deck panels, both of which are available through Tri State Foam's Enviro Plus line of EPS products.

Enviro Plus EPS insulation is compatible with all commercial roofing systems and can be used with built up roofing, modified bitumen systems and single-ply systems that are ballasted, mechanically fastened or fully adhered.

Tri State Foam makes eight different Enviro Plus EPS roofing products. Our experience with EPS and custom engineering services will assure you a cost effective application of this smart innovation and give you a competitive edge in the marketplace.

### Benefits of Roofing With EPS

The advantages of using Enviro Plus EPS insulation in roofing are startling:

#### Constant R-Value

- Consistent thermal performance over the life of the roof
- Measurable energy savings
- Lower cost per R-value than most other insulations

#### Outstanding Performance

- Dimensional stability
- Compressive strength
- Moisture, mold and sound resistance

#### Design Attributes

- Flexibility and versatility in meeting project-specific applications
- Compatible with all roofing systems and methods of installation
- Works well with common roof assembly components

#### Environmental Benefits

- Often made from recycled EPS
- Never made from ozone-depleting gases, such as CFCs or HCFCs
- Lightweight and less material required to meet R-value standards

Products Engineered  
for Today's  
Construction Industry

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(continued)

## EPS Roofing Products

There are two types of Enviro Plus EPS roofing products:

- Tapered EPS insulation
- Direct-to-deck EPS insulation

**Tapered Roofing Systems:** By using tapered EPS, you are utilizing a cost-effective choice in low-slope roofing systems. It gives the roof the desired positive slope to move water to the drains while retaining the structural and economic advantages of a flat roof deck. At the same time, it maintains the long-lasting thermal performance, dimensional stability and consistent moisture resistance characteristic of EPS.

**Direct-To-Deck Applications:** This type of EPS insulation is a very cost-effective, durable and energy efficient solution. It is also compatible with all major roofing materials and assemblies and comes in flat, tapered and compound tapered panels in a range of densities. It can be applied directly to steel roofs without a thermal barrier in single-ply membrane roofing systems.

## EPS Roofing Membrane Systems

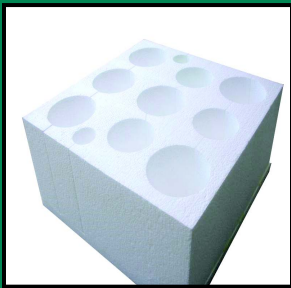
EnviroPlus EPS insulation products work very well with all three different types of roofing applications:

- Built-up
- Modified bitumen
- Single-ply

**Built-Up:** BUR systems constructed with a concrete roof deck allows the roof insulation to be applied directly to the deck as there is no requirement for a thermal barrier due to the presence of the noncombustible concrete deck.

**Modified Bitumen:** These membranes are available in either asphalt or coal tar based systems that have been modified with a polymer and reinforced with a variety of materials including glass fiber, polyester or polyethylene.

**Single-Ply:** These systems are factory-manufactured roof coverings, in contrast to BUR membrane systems that are constructed on the roof from bitumen and reinforcing fabric materials. Single-ply thermo-plastic membranes will soften when heated and harden when cooled while thermo-set membranes are irreversibly set and will not soften when heated.



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