

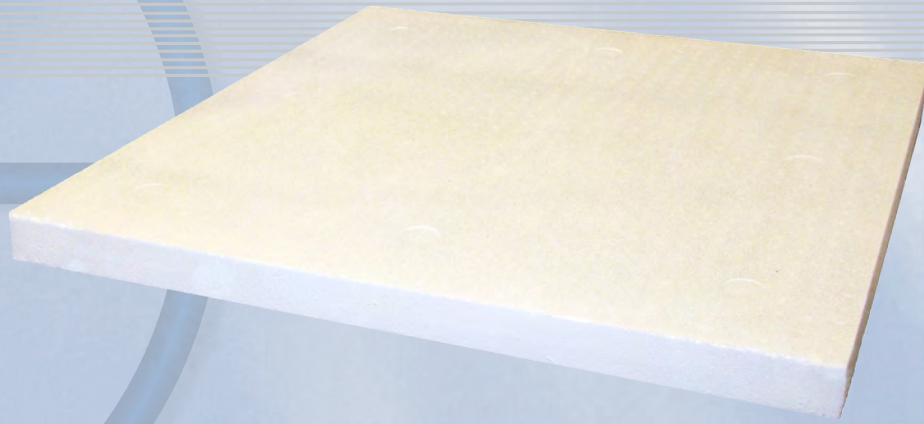
# eps360®

by Benchmark Foam



Made of 100% recycled expanded polystyrene (EPS), **Benchmark Foam's eps360®** is the green alternative for environmentally sound construction. When you choose Benchmark Foam, you receive superior products from a Midwest manufacturer with the only **On-Time Guarantee** in the industry, combining the best in quality, service and value for you and your customers.

 **BENCHMARK FOAM INC.**  
*Quick response is our guarantee.*



## eps360® ADVANTAGES

Made of 100% recycled expanded polystyrene (EPS), eps360® is the green alternative for environmentally sound construction.

### RECYCLED

- Produced from clean, dry, post-consumer expanded polystyrene (EPS), eps360® is a 100% recycled product.
- Qualifies for green building programs, such as LEED® with its regenerated manufacturing process.
- A smart alternative for environmentally conscious builders.
- Benchmark Foam serves as a recycling center for unnecessary household packaging, jobsite waste and much more.
- Ensures third party requirements are met by thorough testing of recycled material prior to remanufacturing into eps360®.
- Aids builders and homeowners to meet sustainability goals.

### ENERGY EFFICIENT

- Maintains same physical properties of virgin, non-recycled EPS.
- Save heating and cooling costs with an average R-Value of 4 or above.
- Take advantage of cost effectiveness of eps360® through added value manufacturing.

### DURABLE

- Can be used wherever most EPS foam insulation is installed.
- Customize thickness of 4' x 4' sheets to accommodate jobsite requirements.

### VERSATILE

- Adaptable to various applications, including roof systems, interior or exterior walls and many more.
- Choose the desired thickness of the 4' x 4' sheet to meet your needs.



Excess or waste expanded polystyrene (EPS) is tested before being recycled into eps360®, an entirely recycled product containing no added fillers or virgin bead.



Call Benchmark Foam at 800-658-3444

or visit us online at [www.BenchmarkFoam.com](http://www.BenchmarkFoam.com)

## eps360® APPLICATIONS

### ROOFING

- Achieve a higher average R-Value and compressive strength than other rigid insulation boards for the same cost.
- Easy installation with lightweight 4' x 4' sheets.
- Integrates as base layer in tapered roof systems.
- Capable of retaining stable, permanent thermal performance.
- Made of recycled materials, eps360® will always be recyclable into future insulating products.
- Smart way to build green with ongoing energy savings.

### FOUNDATION/PERIMETER

- Prevent frost penetration and frost heaves on poured concrete basement walls.
- Save energy costs by limiting heat loss to a minimum.
- Enjoy a more comfortable living space by using eps360® to protect the exterior foundation from cold weather damage.
- Increase overall energy efficiency of building.

### SUB-SLAB

- Reduce heat loss by installing eps360® before pouring a concrete slab.
- Prevent possible frost heaving with added insulating value.
- Causes less environmental impact than other rigid insulation boards by not using harmful blowing agents like HCFCs (hydro chlorofluorocarbons).
- Appreciate a steady temperature in lower levels with less heat loss through concrete slab.

### ON TIME GUARANTEE

- Guarantees delivery by agreed-to date or 10 percent off.
- Gives customer confidence, even if order needs to be rushed.
- No truckload quotas.
- Only On-Time Guarantee in the industry.
- Assures customer needs with quick response customer service.
- Serving a regional area means short shipments reduce the environmental impact caused by long-haul trucking.



## PHYSICAL PROPERTIES OF EPS

Property	Units	ASTM Test	Values Meet or Exceed ASTM C578
<i>eps360<sup>®</sup></i>			
Density, min.	lbs/ft <sup>3</sup>	C303 or D1622	will meet or exceed 1.15
Thermal Resistance "R Value"	One inch thickness	C177 or C518	@ 40° F @ 75° F* 4.25 4.0
<b>Strength Properties, minimum</b>			
Compressive (@ 10% deformation)	psi	D1621	15.0
Flexural	psi	C203	30.0
<b>Moisture Resistance</b>			
Water Absorption (by total immersion, max.)	vol %	C272	<3.0
Water Vapor (Permeance, max.)	Perms	E96	2.5

All values are based on data available from Flint Hills Resources, NOVA Chemical Company and BASF Corporation.

\*Federal Trade Commission ruling: Use the 75° R-Value when calculating R-Values for residential construction (fact sheet available upon request).

## DESIGN CONSIDERATIONS

**Flammability:** Like many construction materials, expanded polystyrene (EPS) is combustible. It should not be exposed to flame or other ignition sources. Current building code requirements should be met for adequate protection or separation from occupied areas.

**Water Absorption Properties:** EPS water absorption is low. Moisture takes the path of least resistance and travels around individual beads rather than through them; the non-interconnecting cell structure prevents capillary absorption.

**Water Vapor Transmission:** EPS has low permeability, but is not considered a vapor barrier.

**Solvent Exposure:** EPS is subject to attack by petroleum-based solvents and adhesives, and coal-tar pitch products. Care should be taken to prevent EPS direct contact with these products and their vapors. Use only adhesives approved for EPS applications.

### ON-TIME GUARANTEE

Benchmark Foam knows your business depends on our product arriving on time. Our service response is so dependable we back it with our On-Time Guarantee. Your product will be shipped and arrive on the agreed-to arrival date or we will discount your invoice 10 percent. We work to accommodate customer needs, giving you confidence when you place an order, even if it needs to be rushed. And we do not have truckload quotas, so no matter how large or small, your order will ship on time.



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