

Expanded Polystyrene

ENVIRONMENTAL BENEFITS

Environmental



ACH
FOAM TECHNOLOGIES

LEADING THE INDUSTRY IN EPS MANUFACTURING ●●●

Expanded Polystyrene

ENVIRONMENTAL BENEFITS

Resource Efficient

Expanded Polystyrene (EPS) manufacturing uses little energy, in which steam is a component of the manufacturing process. The water from this process is collected and re-used many times. Additionally, only 0.1% of total oil consumption is used to manufacture EPS.

Made with Recycled Material *

Scrap EPS generated during manufacturing or from jobsite waste can be ground and incorporated into new EPS products. EPS is easily recyclable and can be turned into new expanded polystyrene (EPS) products or thermally processed into a resin to make other products such as garden furniture, coat hangers and crown molding.

Environmentally Friendly

EPS has never contained CFC (chlorofluorocarbon), HCFC (hydrochlorofluorocarbon), HFCs (hydrofluorocarbon) or formaldehyde which are harmful to the earth's ozone. EPS is inert and stable and does not produce methane gas or contaminating leachates.

Saves Energy and Reduces Greenhouse Gas Emissions

According to the US Green Building Council, buildings in the US alone account for 39% of energy use and 38% CO₂ emissions. Using EPS in commercial and residential construction helps to reduce energy consumption and green house gas emissions. EPS has higher, more stable long term R-Values than other insulation alternatives. R-Value measures the thermal resistance. The higher the R-Value, the better the insulation provides thermal resistance.



A home built with an EPS system such as Structural Insulated Panels (SIPs) or Insulated Concrete Forms (ICFs) create an airtight building envelope. This reduces air leakage and heat loss, thus reducing energy consumption and CO₂ emissions in our atmosphere more than a home built with 2x dimensional lumber. The majority of SIPs are fabricated offsite and delivered ready to assemble, meaning onsite cutting and fabrication is virtually eliminated. This reduces onsite waste and space requirements.

Reduces Supply Chain Waste

EPS cushions and protects products better than alternative packaging (corrugated cardboard, wood, etc.) from repeat impacts during shipment which reduces waste caused by goods that are broken or damaged in the supply chain saving energy, material and transportation resources.

Recommended Component of LEED Certified Projects

Leadership in Energy and Environmental Design (LEED) is the nationally accepted benchmark for design, construction and operation of high performance green buildings. Owners of LEED buildings receive tax incentives for reducing the environmental impact on their surroundings.

Energy & Atmosphere

Credit 1 – EPS provides a stable R-Value without thermal drift, ensuring long term performance.

Credit 2 – EPS helps ensure compliance with local energy codes and ASHRAE 90.1-1999.

Materials & Resources

Credit 1 – EPS is dimensionally stable and can be reused during building renovations.

Credit 4 – Made with up to 15% recycled content.

Credit 5 – ACH Foam has many plant locations across the US. The plant is likely to be within 500 miles from the jobsite.

Consult LEED for more information about credits and tax incentives.

Reduces Fuel Consumption

ACH Foam Technologies has ten locations throughout the United States. The light weight of our product combined with shorter shipping distances reduces fuel consumption.

About ACH Foam Technologies

ACH Foam Technologies has been manufacturing environmentally friendly EPS for over 30 years, before green meant anything.

**See back cover for more information about ACH Foam Technologies' Expanded Polystyrene recycling.*

Construction



Geotechnical



Packaging



OEM



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Expanded Polystyrene

RECYCLING

Environmental

ACH Foam Technologies' plants are drop-off facilities for smaller quantities of post-consumer EPS. ACH Foam will refer consumers to the proper professional recycling facility when the quantities to be recycled surpass ACH's capabilities.

What ACH Foam Technologies Can Recycle

- #6 Expanded Polystyrene (EPS) foam plastic that is white, clean and dry, such as insulated coolers or protective packaging for electronics, household goods, and toys.

What ACH Foam Technologies Cannot Recycle

- Food-service and extruded polystyrene containers such as cups, plates, takeout containers, meat trays, egg cartons or packaging peanuts. All non-foam polystyrene plastics such as yogurt containers, silverware, plastic bags, beverage containers, or CD cases. As an expanded polystyrene manufacturer other polystyrene products cannot be processed by our equipment, to locate a recycler for these products go to www.americanchemistry.com.

How to Recycle EPS

- Drop-Off Product at Any Plant Location. Please call in advance to confirm hours of operation.
- Mail-Back Program through the Alliance of Foam Packaging Recyclers: www.epspackaging.org/info.html.
- Peanut Recycling: Call the National Peanut Hotline 800.828.2214 or go to www.loosefillpackaging.com. In many instances peanuts can be recycled at a UPS store. Contact your local UPS store for more information.
- Businesses that are interested in developing an ongoing recycling program with ACH Foam Technologies should email info@achfoam.com or call 800.525.8697 for more information.

Customers and the public can also get more involved with their local municipalities to create momentum for EPS recycling at the community level. From manufacturers to distributors, the public and the government, it's a shared responsibility to improve the post-consumer recycling of EPS and we need everyone's participation.

