

**140**  
MILLION



## GLASS BOTTLES

The equivalent of how much glass AeroAggregates plans to take from curbside recycling bins in the Delaware Valley and turn into a construction material made from 100% recycled glass that will be used to build roads and infrastructure.

**32,000**



The amount of glass AeroAggregates estimates will be kept out of area landfills per year (the equivalent of 140 million beer bottles).

## ANY SIZE COLOR TYPE OF GLASS

The biggest challenge in glass recycling is sorting the glass by color and size. Mixed color and small pieces often go straight to the landfill. The process used by AeroAggregates can take any size and mixed colored glass that does NOT need sorting. We foam the glass so the end product is 100% recycled glass.

**SNAP!** **POP!**  
**CRACKLE!**

That's the sound the hot foamed glass makes when it comes out of the kiln and shatters into individual pieces of aggregate.

**WEIGHS 85% LESS**

Our Ultra-lightweight aggregates weigh 85% less than traditional quarried aggregates and 65% lighter than other "lightweight" aggregates.

### HOW WE GO FROM SHARDS OF GLASS TO ROCK

We clean the glass cullet (defined as recycled broken or waste glass), mill it into a powder, and process it through a kiln. While in the kiln, the foaming agent reacts and the glass powder forms into a cake. When the foam cake moves out of the kiln and hits the ambient air, it breaks into aggregate pieces approximately two inches in diameter. It's really cool to watch.

**ONE**  
DUMP TRUCK OF ULTRA-LIGHT-WEIGHT ROCK

**VS. EIGHT**  
DUMP TRUCKS OF STANDARD WEIGHT

Since dump trucks that transport quarried rock are filled by weight not capacity, and since quarried rock weighs about 7 times as much as Ultra-lightweight rock made from 100% recycled glass, it takes 8 dump trucks to deliver the same load by volume versus just one truck of recycled glass rock. That means just by using Ultra-lightweight rocks made from 100% recycled glass in a road or construction project, we are taking 7 trucks off the road. That's good for traffic, good for roads, and good for the environment.

## WHY IT'S A BIG DEAL FOR THE NORTHEAST REGION

Think about how roads are constructed in the Northeast, where coastal soils are soft and compressible. Road construction often requires major ground improvement so that the roads on that soft soil do not settle too much. AeroAggregates is able to offer engineers a unique product for consideration in their designs that was never before available in the region. There are no other products on the market that are ultra-lightweight, insulating, sustainable, and have a high friction angle like foamed glass aggregate.

## WHERE WE USE IT

We create Ultra-lightweight aggregate that looks like pumice stone. These Ultra-lightweight rocks are used as embankment or retaining wall fill in highway, railway, and airport construction. Our ultra-light rocks can also be used in building construction as an insulator or drainage material.

## & ONE MORE THING:

Our 100K square foot factory sits on the 10-acre site of a former brownfield. Not only are we cleaning up the glass in the Delaware Valley, but we cleaned up the site where we work, creating a fully sustainable business model. We're pretty proud of that.