

What is KLaw Industries?

KLaw Industries has developed a patent-pending process to repurpose contaminated (MRF) glass, otherwise destined for a landfill, and to turn it into a partial cement replacement for concrete, called [Pantheon™](#).

The problem with MRF Glass.

Recycling facilities process curbside recyclables, however, during transportation the glass gets mixed with paper, plastic, and metal. This prevents the glass from being made into new bottles or anything else. According to the [EPA](#), 12.25 million tons of glass are used each year in the United States. Due to high contamination levels and no suitable end market, 7.5 million tons of that glass end up in our landfills every year. KLaw Industries solves this problem.

What is Pantheon™?

Pantheon™ is a partial *replacement* for cement in concrete derived from MRF glass. Cement is not concrete, cement is a *component* of concrete. Concrete is made of gravel, sand, cement, and water. The cement and water react to hold the concrete together. Pantheon™ reacts in conjunction with the cement and water to increase the compressive strength by 11%, lower the cost, and lower the embodied carbon of the concrete.



The components of concrete (L to R), gravel, sand, cement, water, and pantheon™.

In the field

KLaw Industries has completed four recycling pilot programs with recycling facilities in New York, taking large volumes of MRF glass and processing it into Pantheon™, including glass that was up to 40% contaminated with paper, plastic, and metal. After producing Pantheon™, the cutting-edge material was put to the test at 10 concrete plants in slab mixes, compression cores, finishing tests, and other standard concrete performance metrics. In all studies, Pantheon™ outperformed the current materials used by concrete producers. Visit KLaw Industries' [case studies](#) for more details.

Sustainability

For every 1 ton of cement produced, 1 ton of CO₂ is produced due to the carbon intensive processes involved in making cement. Pantheon™ partially replaces cement, lowering the embodied carbon of concrete by up to 50% due to cement reduction. Pantheon™ prevents 1000 pounds of CO₂ from being released in every concrete truck it is used in. That's equivalent to planting 21 trees every time a truck leaves the concrete plant. Concrete producers can now qualify for environmental contracts without using over-priced materials.

About Us

KLaw Industries was founded by three childhood friends in 2019 after touring recycling facilities and seeing the consistent problem with glass. After building a patent pending process to deal with this glass, Pantheon™ was created with input from local concrete producers. KLaw Industries is now building a plant to service concrete producers across the Northeast.