



Axion's Next-Generation Building Materials:

100% Made from Recycled Plastics.

100% Made in America.

100% Friendly for the Environment.

100% Right for Your Next Project.





Quite Possibly the Most Perfect Building Materials.

Axion's eco-friendly, next-generation building materials represent an entirely new approach. Our patented processes, developed in conjunction with scientists at Rutgers University, transform recycled consumer and industrial plastics into a myriad of structural products that are ideal replacements for traditional materials made from wood, steel or concrete. From girders, pilings and railroad ties to bridge substructures, Axion's American-made products are ideally suited to a broad array of applications.



People around the world are demanding clean, non-toxic alternative building supplies and methods. Axion's cost-effective solutions are formulated using up to 100% recycled plastic and no chemical additives.

And compared to traditional building materials like wood, steel or concrete, Axion's products are extremely cost competitive, feature longer life cycles and lower maintenance costs.

Axion's long-lasting, durable products simply outperform traditional materials: they won't rust, splinter, crumble, rot, absorb moisture or leach toxic chemicals into the environment. Our materials are completely impervious to infestation by insects, marine borers and other marine parasites and resist creep, graffiti, fading and ultraviolet degradation.

On the job site, these innovative products require no special tools or training to install, enabling a seamless transition from old materials to new with no down time or additional expenditures. Axion's aesthetically-pleasing products are used as-is with no need for paint, stain or treatment.

Finally, as an added bonus, Axion's materials generate a positive impact on greenhouse gases and could potentially be eligible for carbon credits, which are currently traded on the Chicago Carbon Exchange.

"By taking plastic that would otherwise wind up in landfills and recycling it into next-generation building materials, Axion is helping to save the environment while creating infrastructure products for bridges that are strong enough to drive a tank over."

James Kerstein, CEO | Axion International

CONSTRUCTION HIGHLIGHT: FT. BRAGG BRIDGE PILINGS

Pilings for the bridges were first driven with a 1,000 pound bell hammer, followed by the vibratory hammer and then finally the 4,000 pound diesel driven hammer.

Figure 1.

Piling being dropped into place by a crane, and readied for driving with vibratory hammer.



Figure 2.

Vibratory hammer in place, and driving pile.



Figure 3.

Splicing piles to achieve the depths required.



Figure 4.

The four ton hammer in place, and driving piling to 37.5 ton refusal.



“The Department of Defense spends \$22.5 billion dollars annually on equipment and infrastructure as an impact of corrosion. For the Army, this number is approximately \$5.8 billion annually. This bridge is less expensive to build than its alternatives, it provides greater corrosion resistance, and it is practically maintenance free. The Army estimates that we will receive a 34 to 1 return on investment by using this technology.”

Dr. Roger Hamerlinck

Ft. Bragg Thermoplastic Bridge Dedication Ceremony
September 2009

“This thermoplastic bridge, able to withstand heavy loads with little to no maintenance, expected to last at least 50 years, is no longer the bridge of the future – it’s the bridge for today. It also meets national environmental goals of being completely recyclable. This technology is not only good for [the Department of Defense], but should be immediately transferred to state departments of transportation for use with short-span bridges wherever possible.”

Daniel J. Dunmire, Director

Corrosion Policy and Oversight Office in the Deputy Under Secretary of Defense (Acquisition, Logistics, and Technology)



To learn how Axion's next-generation materials can improve your project's look, durability and bottom line, please visit us online at www.axionintl.com or call our client relations team at 908.542.0888.

PLEASE



RECYCLE

Q1 2010 Edition