

CarbiCrete develops innovative, low-cost building solutions that contribute to the reduction of greenhouse gas emissions. Our breakthrough patented technology enables the production of cement-free, carbon-negative concrete made with industrial by-products and captured carbon dioxide.

We provide precast makers with the process, materials and support to make concrete products faster, better, stronger and at a lower cost.

Cleaner Concrete

Implementation of the technology reduces GHG emissions by replacing cement in the concrete mix with steel slag, a steel-making byproduct, and by capturing CO₂ in the curing process.

CarbiCrete's technology at a plant producing 25,000 CMUs per day would reduce annual emissions by 20,000 tonnes

3kg of CO₂ removed per CMU:

2kg avoided by not using cement + 1kg captured during curing

Better Concrete

CarbiCrete CMUs are up to 30% stronger than cement-based CMUs. They are at full-strength and ready to ship immediately after curing (24 hours vs. 3 days).

Cheaper Concrete

CarbiCrete has a better economic model than cement-based concrete. Using steel slag instead of cement represents a cost savings of between 10% and 20%.

	Cement-Based CMU	CarbiCrete CMU
Density (kg/m ³)	2250	2250
Water absorption (%)	5.5	6.0
Compressive strength (MPa)	20	26
Time to full-strength (in days)	2-3	1
Moisture content (%)	1.7	1.5
Fire resistance rating (hours)	2	2



HARSCO

Our Global Steel Slag Supply Partner

We have a worldwide steel slag supply agreement with Harsco, the steel industry's largest materials processor.

This guarantees that our customers always have access to top-quality slag in whatever quantities they require.

Business Model



Annual license fee

Based on production capacity and the number of product lines



One-time set-up fee

To outfit a plant for process implementation



Supply and quality assurance

We guarantee the supply of concrete-appropriate steel slag