

— AVAILABLE AT —
CANAL BLOCK

THE GREATEST INNOVATION IN CONSTRUCTION TECHNOLOGY



Cement is one of the most destructive substances on Earth.

Although it makes up just 10-15% of the concrete mix, cement accounts for a staggering 90% of concrete's greenhouse gas emissions, contributing significantly to the destruction of flora and fauna, ozone layer depletion, and global warming.

Replacing cement in the concrete mix represents the single greatest opportunity for reducing embodied carbon in the built environment.

Building the future with decarbonized concrete.

Eliminates

the use of cement in CMUs.

Permanently removes CO₂ from the atmosphere.

Reduces landfill waste by recycling industrial byproducts.



Reduce your project's embodied carbon.

The obvious choice for a decarbonized future.

CarbiCrete cement-free CMUs avoid 100% of the emissions associated with cement production, while also removing carbon from the atmosphere permanently.

The greatest innovation in construction technology

Transitioning to cement-free CMUs is an easy change that can significantly lower a project's embodied carbon without any compromise on performance.



CEMENT-FREE
CONCRETE



CEMENT-BASED
CONCRETE

MEETS ASTM C90 PERFORMANCE REQUIREMENTS	✓	✓
MEETS FIRE RESISTANCE, FREEZE/THAW AND ACOUSTIC PROPERTIES REQUIREMENTS	✓	✓
HIGHER COMPRESSIVE STRENGTH (UP TO 30%)	✓	✗
CONTRIBUTES TO LEED POINTS	✓	✗
PERMANENTLY REMOVES CO ₂	✓	✗
WATER AND PRIMARY MATERIAL CONSERVATION	✓	✗
REDUCES LANDFILL WASTE	✓	✗
REDUCES A PROJECT'S EMBODIED CARBON	✓	✗

Our groundbreaking technology eliminates the use of cement as the binder in concrete by replacing it with steel slag and uses carbon mineralization to permanently lock away CO₂ in concrete products during the curing process.

The technology involves injecting CO₂ into a curing chamber where it reacts with the steel slag present in the concrete. This reaction results in the permanent conversion of CO₂ into stable calcium carbonates.

By replacing cement with steel slag and using captured CO₂ in our curing process, we are using two waste streams to create decarbonized concrete that reduces emissions, removes CO₂ and lowers the embodied carbon of any project where the CMUs are specified.



An aerial photograph of an industrial facility, likely a cement plant, with several tall smokestacks emitting thick plumes of white smoke. The scene is set against a dramatic sky with a bright sun low on the horizon, creating a warm, orange and yellow glow. The smokestacks are dark, and the smoke is a bright white, contrasting with the hazy sky. The overall mood is one of industrial activity and environmental impact.

**REDUCE
EMBODIED CARBON
SPECIFY
CEMENT-FREE
CMUs**

CarbiCrete is a cement-free concrete technology company developing scalable building solutions that reduce embodied carbon in the built environment.



CEMENTFREECMU.COM