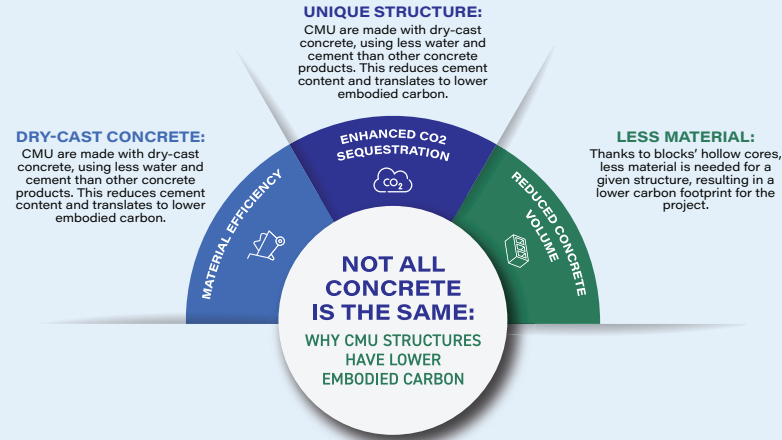
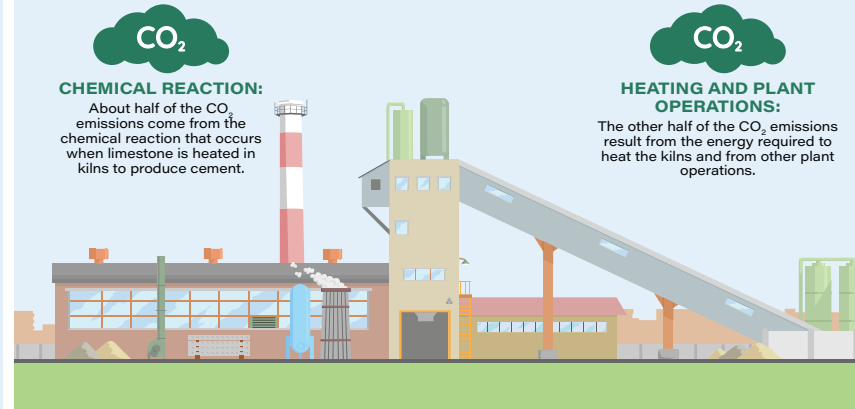


CONCRETE MASONRY IS MORE SUSTAINABLE THAN OTHER TYPES OF CONCRETE



CEMENT PRODUCTION CO₂ IMPACTS

The majority (75-90%) of the embodied carbon in CMU is due to the cement. During cement production, CO₂ is released in two main ways:



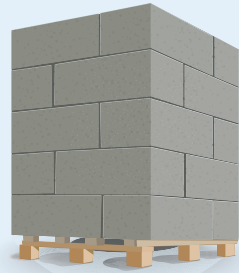
CARBON CYCLE OF CONCRETE



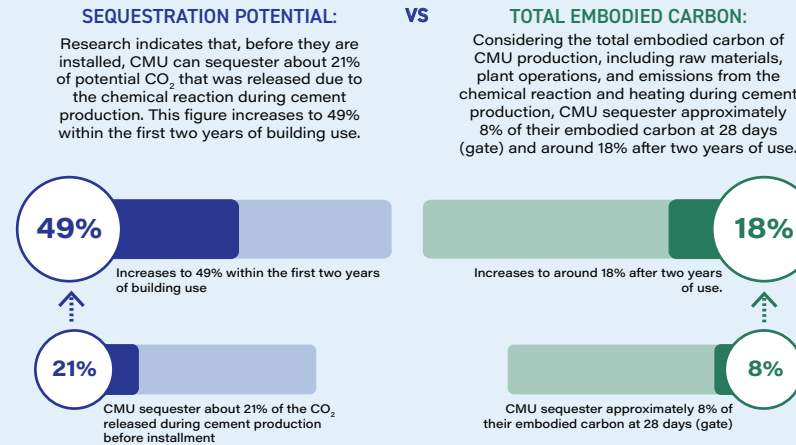
CARBONATION RATES:

DRY-CAST VS WET-CAST

Dry-cast concrete products, such as CMU, have an interconnected void structure that enables them to sequester CO₂ more effectively than wet-cast concrete. This structure, combined with the thinner elements of CMU like face shells and webs, allows for increased CO₂ absorption at faster rates.



RESEARCH FINDINGS



LONG-TERM IMPLICATIONS

Even beyond the initial two years, CMU continue to absorb CO₂ from the atmosphere. Models suggest that up to 25% of the total embodied carbon of CMU could be absorbed within the first 20 to 25 years of a building's lifetime.



FUTURE RESEARCH

Ongoing studies aim to further quantify and understand how different concrete products can contribute to CO₂ sequestration, reinforcing their reputation as sustainable building materials.

For more information, visit the [Concrete Masonry & Hardscapes Association's Website](https://www.concrete.org).