



We do things differently
and it makes all the difference for you.™

Capabilities Overview

Field-Erected Cooling Towers

Our Company

Composite Cooling Solutions (CCS) is a custom cooling tower solutions provider specializing in the design and build of field-erected fiberglass and concrete cooling towers. While CCS was officially formed in 2004, our corporate DNA and innovation dates back over the past half-century as our founding partners came together at Ceramic Cooling Tower Company (CCT). From the introduction of the first fiberglass reinforced plastic (FRP) tower to the first FM Approved FRP tower, CCS leaders have truly revolutionized the cooling tower industry. Today CCS continues to invest in research to develop new and better methods for cooling tower design and construction.

Services

Design and Build Custom Field-Erected Cooling Towers

FRP Counterflow:
Phoenix® and PermaLite™

FRP Crossflow:
3000XLF™ and Titan™

Concrete Counterflow

Provide Cooling Tower Support Services

Performance Testing and Analysis

Repairs and Reconstruction

Maintenance and Inspections

Replacement Parts

Reach

Commercial, industrial, process
and power markets

Domestic and worldwide projects

Contracts small and large



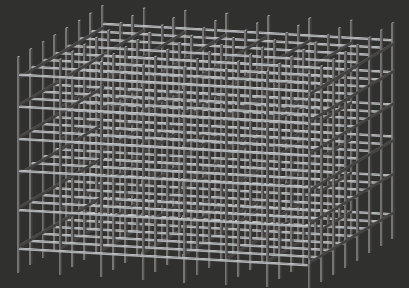
Our Exclusive Tower Structure

Despite what some may believe, not all cooling towers are the same.

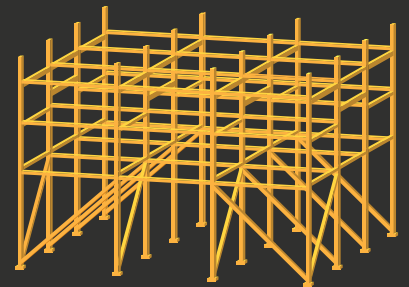
While they may look similar from the outside, the inside tells a different story. At CCS, we have designed a tower structure that is unlike any other on the market – providing real and lasting advantages for our customers.

It starts at the most fundamental level with our superior raw materials and **custom-manufactured components**. Each tower is engineered to the customer's specific requirements using our flexible, **open-frame tower design** that requires fewer columns and connections. This enables **faster and safer project execution**, and ultimately results in **lower operating and maintenance costs** over the extended life of the tower. And all of this is delivered by CCS, a highly qualified and experienced partner that you can count on for years to come.

Competitor's Structure
42' x 42' Cell
6' x 6' Bays
6 Levels



CCS Structure
42' x 42' Cell
14' x 14' Bays
3 Levels



86%
Less
Hardware

81%
Fewer
Connections

75%
Fewer
Columns

all the difference

Superior Quality and Reliability

Up to 200% greater rigidity in our raw material

We custom manufacture our FRP material using a special glass lay-up and higher glass content with no fillers in our resin for increased tensile strength and shear resistance.

Greater UV protection and wider pH range for chemical resistance

Our resin coating is 2-4x thicker than our competitors' standard resin, making our towers better able to withstand the elements, including extreme temperatures and sun damage.

More durable structure made with custom components

CCS does not rely on "off-the-shelf" shapes. Our components are designed, engineered and tested specifically for cooling tower use.

Stronger connections and tighter joints

Our patented two- and three-bolt structural connections are stable without spacers or torquing, and we anchor every column to the basin.

More flexibility in performance

Our Multi-Flo™ distribution system allows the number, location and capacity of spray nozzles to be optimized to match tower dimensions and performance requirements. With Multi-Flo, turndown capabilities can be as low as 30-50% of total capacity for efficient tower operation through a wider range of load conditions.

Optimal Project Execution

ThermaFit™ for optimal design

CCS' ThermaFit software is a powerful sizing and selection tool that helps engineers and CCS representatives design and select the optimal tower design for the application from a range of possibilities. This saves valuable design time up front, matching size and performance requirements without being restricted by other manufacturers' "standard product" limitations.

Shorter lead time

We developed a proprietary software system to automate structural design and bill of materials, enabling industry-leading delivery time of materials to site.

Flexibility to fit any footprint

Only CCS uses 6 x 6-inch "power columns" that can be spaced at any increment up to 14 feet apart. That means our towers can be matched to the exact space available for improved efficiency and lower energy costs.

25-35% faster installation for less time on site

With larger columns and spacing, our structure requires 75-85% fewer columns, connections and hardware pieces than other providers' towers — significantly reducing the training and installation hours needed. Our lean assembly processes include pre-packaged/marked components and standardized hardware to eliminate guesswork and lower risk by reducing overall time on site.

Safer construction with fewer potential interruptions

Our stable, open-frame design allows the crew to tie-off anywhere on the structure and provides room in the basin to maneuver scissor lifts rather than working from ladders and scaffolding, increasing safety and efficiency.



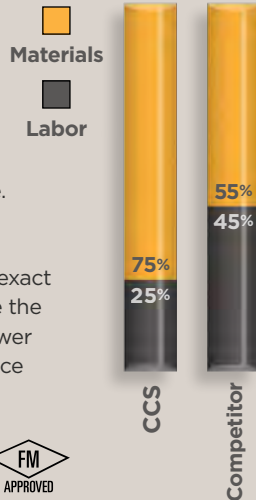
In 2010, CCS erected the largest crossflow FRP tower in North America, with a total span of over 1,020 feet.

ence for you

Lower Lifecycle Costs

Better material-to-labor cost ratio

Our exclusive tower structure and streamlined build process typically equate to a 35% reduction in labor hours, so we can invest more of your budget into the high-quality materials that stay on site and create return value.



Reduced operating costs

Because our towers can be built to the exact footprint available, we are able to utilize the optimal motor size and lowest horsepower possible to increase efficiency and reduce utility bills.

FM Approved designs to avoid loss of production and expenses



CCS' FM 4930 Approved towers are the only ones on the market that incorporate all FRP material, including the basin, using our standard structure and components. We were the first company to obtain FM 4930 Approval without a sprinkler system, thereby eliminating its associated installation and ongoing expenses.

Lower maintenance costs

The open-frame design of our towers allows easy access to the basin, making it faster and less costly to clean and inspect. Exclusive tower features like our patented connections with no annual torque requirements and our thicker, longer-lasting UV coating yield on-going maintenance savings.

Longer tower life

CCS towers are engineered for a minimum structural design life of 50 years, ensuring that your investment will pay off for years to come before a replacement is needed.

Affirming Customer Experience

Confidence of working with the FRP experts

From our founding leaders who developed the first fiberglass tower in 1981 to the construction of North America's largest crossflow FRP tower in 2010, CCS has more FRP tower experience than any other provider.

Solutions to your unique challenges

When you work with CCS, you benefit from the extensive knowledge and ingenuity of our people across all functions — from our engineers and sales team to our project managers and local representatives. As a custom tower provider, we work with each customer individually to design the best solution to fit the requirements.

Effective and efficient service

CCS provides responsive service and follow-up on initial inquiries and submittals, during project execution and for any post-installation issues. We have a solid reputation in the industry for delivering on our promises and producing quality results.

Accountable partner you can trust

More than just a vendor, we are a partner who stands behind the quality of our products and forms lasting relationships with our customers. In fact, 80% of them come back to buy from CCS again.



Composite Cooling Solutions (CCS) is a custom cooling tower solutions provider specializing in the design and build of field-erected fiberglass and concrete cooling towers. Our exclusive tower structure is unlike any other on the market — using custom-engineered components and a flexible, open-frame design to enable faster and safer project execution and lower costs over the life of the tower. From our founding leaders who pioneered the cooling tower industry to our experienced and responsive teams, you can rely on CCS to deliver a lasting solution for your cooling needs.

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FM 4930 Approval certifies quality and protection. There are more CCS field-erected FM Approved cooling towers in operation than all competitors combined.

Composite Cooling Solutions' cooling towers (or parts thereof) are covered and protected by one or more of the following United States Patents (and other pending U.S. patent applications): U.S. Patent No. 7,257,734, U.S. Patent No. 7,607,646, U.S. Patent No. 7,997,562, U.S. Patent No. 8,376,323 and U.S. Patent No. 8,602,397



ISO 9001:2008