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.

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. 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.

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


Member

ISO 9001:2008

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

Capabilities Overview

Field-Erected Cooling Towers

FM 4930 Approval certifies quality and safety. There are more CCS field-erected FM Approved cooling towers in operation than all competitors combined.
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 Fermaid®
FRP Crossflow: IDDPL® and Titran™
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

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.

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


ISO 9001:2008

www.compositecooling.com
Despite what some may believe, not all cooling towers are the same. 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. The exclusive tower and subassem- bly project execution, and ultimately results in lower operating and maintenance costs over the extended lifetime 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.

Our Exclusive Tower Structure

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. Our Multi-Flo™ distribution system allows the number, every column to the basin.

Competitor’s Structure

42’ x 42’ Cell 6 Levels

6’ x 6’ Bays

3 Levels

Hardware

81% Less Connections

86% Less Hardware

25-30% faster installation for less time on site

Our stable, open-frame design allows the tower to be designed for the application from a range of possibilities, this gives us valuable design time up front, on the ground, with our customers to ensure that the project will meet their needs.

CCS Structure

42’ x 42’ Cell 14 x 14 ’Spig 3 Levels

81% Fewer Connections

75% Stronger Columns

Flexibility to fit any footprint

Our Multi-Flo™ distribution system allows the number, volume and size of basins needed to be optimized for each tower’s specific needs. With Multi-Flo, hundreds of capacities can be as low as 10% of CCS capacity for efficient tower operation through a wider range of load conditions.

Superior Quality and Reliability

ThermalFit™ for optimal design

We are the experts in ThermalFit™ design for optimal design and selection tool that helps engineers and CCS representatives design the optimal tower for the application. From a range of possibilities, this gives us valuable design time up front, on the ground, with our customers to ensure that the project will meet their needs.

Optimal Project Execution

Shorter lead time

For our customers, time is critical; that’s why we’ve designed a proprietary software system to automate the structural design and analysis of materials, enabling timely delivery and assembly on-site.

Lower Lifecycle Costs

More reliability

Better material-to-labor cost ratio

Lower material and labor costs are a benefit of our unique design, which provides for a wider range of load conditions and improved performance. Plus, we design for a minimum 50-year structural life, ensuring that your investment will last for generations.

Reduced operating costs

Reduced operating costs are a benefit of our unique design, which provides for a wider range of load conditions and improved performance. Plus, we design for a minimum 50-year structural life, ensuring that your investment will last for generations.

Confidence of working with the FRP experts

After designing and delivering the first fiberglass tower in 1981 to the construction of North America’s largest crossflow FRP tower in 2005, CCS has more FRP tower experience than any other provider.

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 honoring our commitments.

Accurate 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.
Despite what some may believe, not all cooling towers are the same. CCS, a highly qualified and experienced partner that you can trust for years to come.

Our Exclusive Tower Structure

- Up to 20% greater ruggedity in our raw material
- CCS’ patented “Stable Glass” FRP processes a special glass lay-up and higher glass content with no fibers in a matrix for increased strength and shear resistance.
- Greater UV protection and wider pH range for chemical resistance
- Our main casting is 20% thicker than our competition, dramatically reducing the need for maintenance, insecticides, insect exterminators, etc. along with extreme temperatures and weather elements.

More durable structure made with custom components

- CCS does not rely on “off-the-shelf” shapes. Our components are designed, engineered and fabricated specifically for the 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 all the columns to the basin, making it faster and less costly to clean.

More flexibility in performance

- Our Multi-Flo™ distribution system allows the number, location and capacity of spray nozzles to be optimized every column to the basin.
- Superior Quality and Reliability
- Optimal Project Execution
- Lower Lifecycle Costs
- Affirming Customer Experience

Superior Quality and Reliability

- ThermaFLO™ for optimal design
- CCS’ FRP columns and connections are a high-quality design and selection tool that helps engineers and CCS representatives design the optimal tower for the application. From a range of possibilities, this superior flexible design allows you from matching size and performance requirements without being restricted by other manufacturers’ “standard product” limitations.
- Shorter lead time
- CCS has designed a proprietary software system to assist the structure design and allow materials, enabling virtually matching delivery time of materials to site.

Optimal Project Execution

- Flexibility to fit any footprint
- Only CCS uses a 6 x 6-inch “power column” that can be built to any size in up to 18 feet apart. That means our towers can be matched to the most ideal size available for optimal performance and economic use.
- 25-30% faster installation for less time on site
- We limit our columns and connections, so our structure requires 75-85% fewer columns, connectors, and handrails than other present towers — significantly reducing the handling and installation hours needed. Our less assembly processes include pre-packaged installed components and standardized hardware to eliminate guesswork and lower costs by reducing overall time on site.

Lower maintenance costs

- Safer construction with fewer potential hazards
- Our stable, open frame design allows the ease of off-site inspection on the structure and provides access to the tower to minimize future labor costs. Our working platform design, safety and efficiency.

In 2010, CCS erected the largest crossflow FRP tower in North America, with a total space of over 1,000 feet.

Confidence working with the FRP experts

Confidence of working with the FRP experts

Chemical resistance

- CCS FRP (crossflow FRP tower) in 1981 to the construction of North American largest, crossflow FRP tower in 2010. CCS has more FRP tower experience than any other possible provider.

Solutions to your unique challenges

When you work with CCS, you benefit from the extensive knowledge and experience of our people across all disciplines — from our engineers and sales teams to our construction crews. We have a solid reputation in the industry for delivering on our promises.

Affirming Customer Experience

- Better material-to-labor cost ratio
- Our exclusive tower features like our patented two- and three-bolt structural connections with no annual torque requirements and our thicker, longer-lasting UV coating yield ongoing maintenance savings.
- CCS’ FRP towers are engineered for a minimum structural and selection tool that helps engineers and CCS representatives design the optimal tower for the application. From a range of possibilities, this superior flexible design allows you from matching size and performance requirements without being restricted by other manufacturers’ “standard product” limitations.
- Shorter lead time
- CCS has designed a proprietary software system to assist the structure design and allow materials, enabling virtually matching delivery time of materials to site.

In 2010, CCS erected the largest crossflow FRP tower in North America, with a total space of over 1,000 feet.

Confidence working with the FRP experts

Confidence of working with the FRP experts

Chemical resistance

- CCS FRP (crossflow FRP tower) in 1981 to the construction of North American largest, crossflow FRP tower in 2010. CCS has more FRP tower experience than any other possible provider.

Solutions to your unique challenges

When you work with CCS, you benefit from the extensive knowledge and experience of our people across all disciplines — from our engineers and sales teams to our construction crews. We have a solid reputation in the industry for delivering on our promises.

Affirming Customer Experience

- Better material-to-labor cost ratio
- Our exclusive tower features like our patented two- and three-bolt structural connections with no annual torque requirements and our thicker, longer-lasting UV coating yield ongoing maintenance savings.
- CCS’ FRP towers are engineered for a minimum structural and selection tool that helps engineers and CCS representatives design the optimal tower for the application. From a range of possibilities, this superior flexible design allows you from matching size and performance requirements without being restricted by other manufacturers’ “standard product” limitations.
- Shorter lead time
- CCS has designed a proprietary software system to assist the structure design and allow materials, enabling virtually matching delivery time of materials to site.

In 2010, CCS erected the largest crossflow FRP tower in North America, with a total space of over 1,000 feet.

Confidence working with the FRP experts

Confidence of working with the FRP experts

Chemical resistance

- CCS FRP (crossflow FRP tower) in 1981 to the construction of North American largest, crossflow FRP tower in 2010. CCS has more FRP tower experience than any other possible provider.

Solutions to your unique challenges

When you work with CCS, you benefit from the extensive knowledge and experience of our people across all disciplines — from our engineers and sales teams to our construction crews. We have a solid reputation in the industry for delivering on our promises.

Affirming Customer Experience

- Better material-to-labor cost ratio
- Our exclusive tower features like our patented two- and three-bolt structural connections with no annual torque requirements and our thicker, longer-lasting UV coating yield ongoing maintenance savings.
- CCS’ FRP towers are engineered for a minimum structural and selection tool that helps engineers and CCS representatives design the optimal tower for the application. From a range of possibilities, this superior flexible design allows you from matching size and performance requirements without being restricted by other manufacturers’ “standard product” limitations.
- Shorter lead time
- CCS has designed a proprietary software system to assist the structure design and allow materials, enabling virtually matching delivery time of materials to site.

In 2010, CCS erected the largest crossflow FRP tower in North America, with a total space of over 1,000 feet.

Confidence working with the FRP experts

Confidence of working with the FRP experts

Chemical resistance

- CCS FRP (crossflow FRP tower) in 1981 to the construction of North American largest, crossflow FRP tower in 2010. CCS has more FRP tower experience than any other possible provider.

Solutions to your unique challenges

When you work with CCS, you benefit from the extensive knowledge and experience of our people across all disciplines — from our engineers and sales teams to our construction crews. We have a solid reputation in the industry for delivering on our promises.

Affirming Customer Experience

- Better material-to-labor cost ratio
- Our exclusive tower features like our patented two- and three-bolt structural connections with no annual torque requirements and our thicker, longer-lasting UV coating yield ongoing maintenance savings.
- CCS’ FRP towers are engineered for a minimum structural and selection tool that helps engineers and CCS representatives design the optimal tower for the application. From a range of possibilities, this superior flexible design allows you from matching size and performance requirements without being restricted by other manufacturers’ “standard product” limitations.
- Shorter lead time
- CCS has designed a proprietary software system to assist the structure design and allow materials, enabling virtually matching delivery time of materials to site.

In 2010, CCS erected the largest crossflow FRP tower in North America, with a total space of over 1,000 feet.
Despite what some may believe, not all cooling towers are the same. 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. The accurate tower and sub-factory 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.

Our Exclusive Tower Structure

It features a superior tower structure that is unlike any other on the market – providing operation through a wider range of load conditions. While they may look similar from the outside, the inside tells a different story. At CCS, we have designed a tower structure that is engineered to the customer’s specific requirements using custom components.

Our patented two- and three-bolt structural connections provide stronger connections and tighter joints. The CCS Structure offers fewer connections and columns, meaning more durability and reliability, optimized for improved efficiency and reduced utility bills.

CCS' ThermaFit software is a powerful sizing tool that helps engineers and CCS representatives design a tower that meets the optimal tower design for the application from a range of possibilities. This allows superior design efficiency from an initial size and performance requirements without being restricted by other manufacturer's “standard product” limitations.

CCS does not rely on “off-the-shelf” shapes. Instead of using pre-packaged/marked components, we fabricate our materials to order to ensure optimal performance.

Competitor's Structure

CCS Structure

In 2020, CCS earned the largest crossflow FRP tower in North America, with a total spall of over 1,000 feet.

Optimal Project Execution

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 operation through a wider range of load conditions. While they may look similar from the outside, the inside tells a different story. At CCS, we have designed a tower structure that is engineered to the customer’s specific requirements using custom components.

Our Exclusive Tower Structure

It features a superior tower structure that is unlike any other on the market – providing operation through a wider range of load conditions. While they may look similar from the outside, the inside tells a different story. At CCS, we have designed a tower structure that is engineered to the customer’s specific requirements using custom components.

Our patented two- and three-bolt structural connections provide stronger connections and tighter joints. The CCS Structure offers fewer connections and columns, meaning more durability and reliability, optimized for improved efficiency and reduced utility bills.

CCS' ThermaFit software is a powerful sizing tool that helps engineers and CCS representatives design a tower that meets the optimal tower design for the application from a range of possibilities. This allows superior design efficiency from an initial size and performance requirements without being restricted by other manufacturer's “standard product” limitations.

CCS does not rely on “off-the-shelf” shapes. Instead of using pre-packaged/marked components, we fabricate our materials to order to ensure optimal performance.

Competitor's Structure

CCS Structure

In 2020, CCS earned the largest crossflow FRP tower in North America, with a total spall of over 1,000 feet.

Optimal Project Execution

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 operation through a wider range of load conditions. While they may look similar from the outside, the inside tells a different story. At CCS, we have designed a tower structure that is engineered to the customer’s specific requirements using custom components.

Our Exclusive Tower Structure

It features a superior tower structure that is unlike any other on the market – providing operation through a wider range of load conditions. While they may look similar from the outside, the inside tells a different story. At CCS, we have designed a tower structure that is engineered to the customer’s specific requirements using custom components.

Our patented two- and three-bolt structural connections provide stronger connections and tighter joints. The CCS Structure offers fewer connections and columns, meaning more durability and reliability, optimized for improved efficiency and reduced utility bills.

CCS' ThermaFit software is a powerful sizing tool that helps engineers and CCS representatives design a tower that meets the optimal tower design for the application from a range of possibilities. This allows superior design efficiency from an initial size and performance requirements without being restricted by other manufacturer's “standard product” limitations.

CCS does not rely on “off-the-shelf” shapes. Instead of using pre-packaged/marked components, we fabricate our materials to order to ensure optimal performance.

Competitor's Structure

CCS Structure

In 2020, CCS earned the largest crossflow FRP tower in North America, with a total spall of over 1,000 feet.

Optimal Project Execution

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 operation through a wider range of load conditions. While they may look similar from the outside, the inside tells a different story. At CCS, we have designed a tower structure that is engineered to the customer’s specific requirements using custom components.

Our Exclusive Tower Structure

It features a superior tower structure that is unlike any other on the market – providing operation through a wider range of load conditions. While they may look similar from the outside, the inside tells a different story. At CCS, we have designed a tower structure that is engineered to the customer’s specific requirements using custom components.

Our patented two- and three-bolt structural connections provide stronger connections and tighter joints. The CCS Structure offers fewer connections and columns, meaning more durability and reliability, optimized for improved efficiency and reduced utility bills.

CCS' ThermaFit software is a powerful sizing tool that helps engineers and CCS representatives design a tower that meets the optimal tower design for the application from a range of possibilities. This allows superior design efficiency from an initial size and performance requirements without being restricted by other manufacturer's “standard product” limitations.

CCS does not rely on “off-the-shelf” shapes. Instead of using pre-packaged/marked components, we fabricate our materials to order to ensure optimal performance.

Competitor's Structure

CCS Structure

In 2020, CCS earned the largest crossflow FRP tower in North America, with a total spall of over 1,000 feet.
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: 3DCell™ and Titan™
Concrete Counterflow
Provide Cooling Tower Support Services
Performance Testing and Analysis
Reps and Reconstruction
Maintenance and Inspections
Replacement Parts
Reach
Commercial, industrial, process and power markets
Domestic and worldwide projects
Contracts small and large

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.

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


Member
ISO 9001:2008

www.compositecooling.com

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

ISO 9001:2008

4350 International Drive, Suite 500
Fort Worth, Texas 76109-4826
817.246.8700 phone
817.246.8717 fax
www.compositecooling.com

Capabilities Overview
Field-Erected Cooling Towers

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