

COMPOSITES. ANY WAY, SHAPE OR FORM™ COOLING TOWERS



BUILT ENVIRONMENT: ENERGY Cooling Towers and Carbon Capture

McCLARIN Composites is a leading supplier of proprietary and build-to-print composite components for North American cooling tower OEMs.

McCLARIN composite fan stacks and associated stiffener rings and belly bands feature an engineered laminate schedule with a range of innovative materials and molding processes specified to optimize performance to cost, part weight, temperature, corrosion, fatigue, impact, and flame resistance.

Composite fan stacks have a belled inlet and conical diverging exit for reduced air pressure drop for high fan efficiency. Fan stack sections are connected with lap joints or flanges allowing field adjustments of stack diameter and control of fan blade tip clearance.

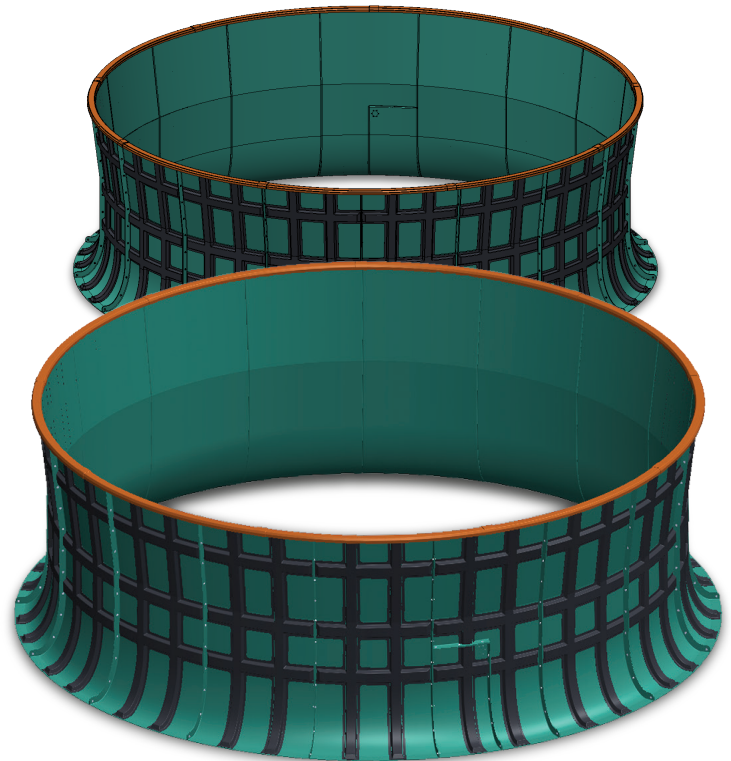
Composite fan stacks are easily lifted, positioned, and secured to the deck joint structure by bolts. Each fan stack has a removable access panel opening for maintenance.

Standard Features

- Stack diameter sized to correlate to fan diameter, reducing fan load
- Typical heights are 6', 7', 8', 10', 14', 18', 20', and 24'
- Fan stacks use elliptical flare
- View ports
- Molded with pre-formed channel rib construction
- Cross sectional laminate is 3/16"
- Perimeter cross sectional laminate is 5/16"
- Perimeter bolting flanges reinforced with woven roving
- Standard nominal 20mil gray gel-coat color
- Class III Flame Spread of 75" or greater
- Assembled with 304 SS hardware



Hanover, PA
Oklahoma City, OK
Wapato, WA



Optional Features

- Class I: Flame Spread $\leq 25'$
- Class II: Flame Spread $\leq 50'$
- Reinforced throat sections
- Tailored resin specification
- Special laminate designs
- Gel-coat color

Composite Cooling Tower Components

- Composite Fan Stacks
- Composite Stiffener Rings
- Composite Piping
- Distribution Systems
- Composite Basins
- Basin Decking
- Composite Panels
- Deck Hatches / Access Doors
- Composite Escape / Access Ladders
- Modular Stair Packages
- Handrails



COMPOSITES. ANY WAY, SHAPE OR FORM™ McCLARIN: TODAY



McCLARIN Composites leads with purpose, molding sustainable value with future-forward solutions for decarbonizing mobility and the built environment.

▶ MARKET FACING STRATEGIES

- Disruptively lead design, material and process solutions for high growth segments in decarbonized mobility.
- Innovate for decarbonization, resilience and accelerated construction in the built environment.
- Advance cleaner composites and circularity with our conversion to closed mold processing.
- Transform cost and productivity through automated processes.

We believe it is our responsibility to lead with purpose — not just in composites — but also in our communities and the environment. Through market intelligence and engagement, along with Voice-of-Customer activities, McCLARIN gathers the signals of our customers, market associations and civil society. We monitor trends and all leading voices in energy policy, urban planning, architecture, transportation, infrastructure, logistics and mass transit to help us strategically position. From these signals, we develop disruptive products from concept to commercialization with the lightest sustainable footprint.

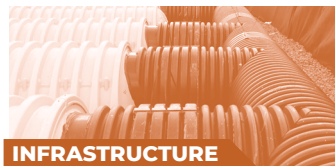
McCLARIN COMPOSITES DIFFERENTIATION

- Geographic positioning
- Multi-material offerings
- Dual-laminate capability (Thermoplastic/Thermoset)
- Design-for-Manufacturing (DFM)
- Advanced Product Quality Planning (APQP)
- Tooling capability
- Integrated Management Systems
- Machine-driven molding processes
- Robotic trimming
- Drilling, routing and bonding

MOBILITY



BUILT ENVIRONMENT



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