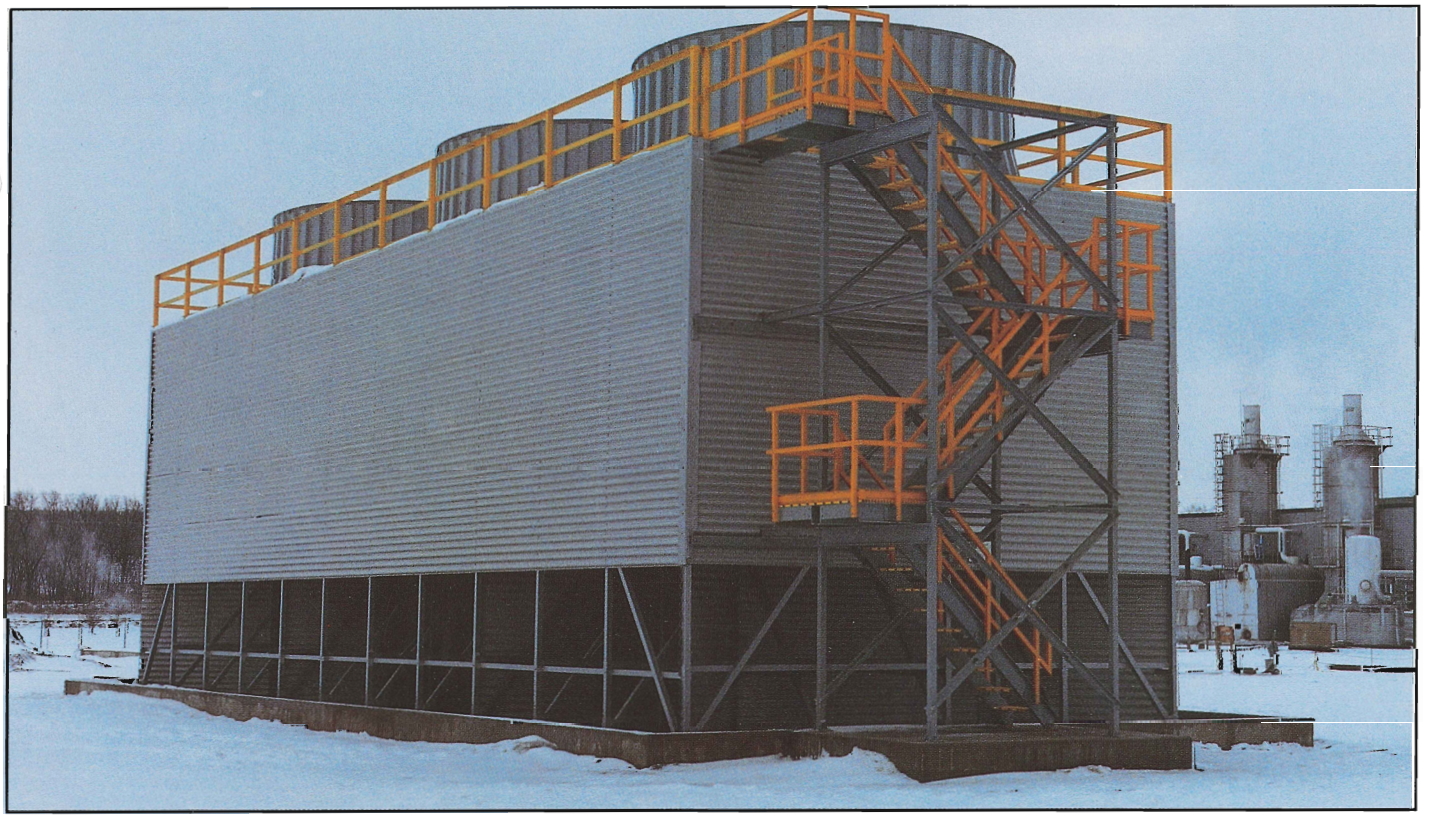
Thermal-Dynamic Cooling Towers

Thermal-Dynamic Towers, Inc.

Fiber-Last™

Structural Fiberglass Cooling Towers

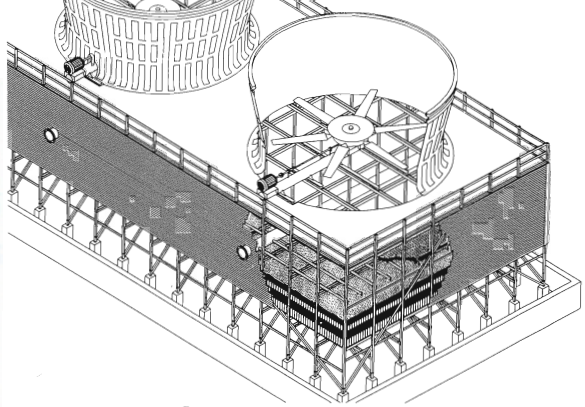


Cooling Towers For The Next Generation

FIBERGLASS FABRICATION ASSOCIATION MEMBERS

MEMBER C T I COOLING TOWER INSTITUTE

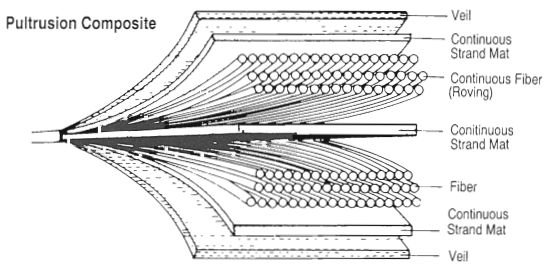
Fiber-Last™



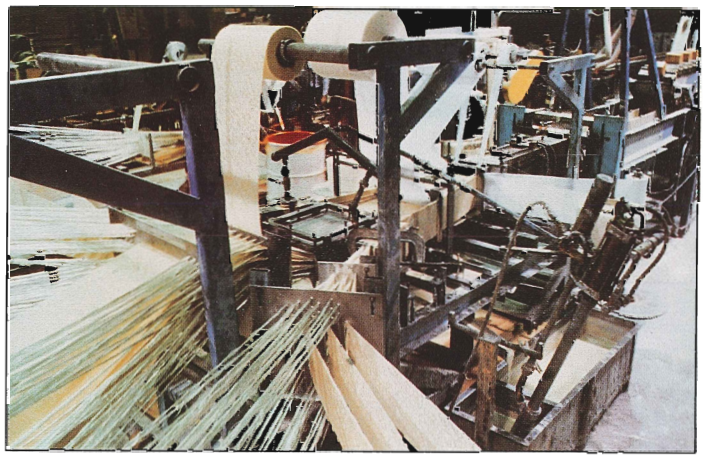
The Cooling Tower Evolution

Fiber-Last ™ : For over 15 years Pultruded Fiberglass components have been successfully used in the cooling tower industry ,due to their high corrosion resistantcy, low maintenance and light weight. All cooling towers of the modern age are equipped with Fiberglass components such as: Header systems,Tower casing and Fan blades. As a leader in the cooling tower industry, Thermal- Dynamic's has recognized the need for a long lasting ,environmentally safe and cost effective alternative to a concrete or wood tower structure. Thermal-Dynamic's introduction of the **Fiber-Last ™** series cooling tower has revolutionized the industry by designing a cooling tower that has the life of concrete and is cost competitive to a wooden structure. Thermal-Dynamic's **Fiber-Last ™** series towers are engineered with maximum safety values to ensure a long useful life with minimal maintenance and maximum performance. Our advanced CAD/CAM composite design system puts Thermal-Dynamic's on the leading edge of composite technology. For your next cooling tower replacement or new tower purchase insist on **Fiber-Last ™**.

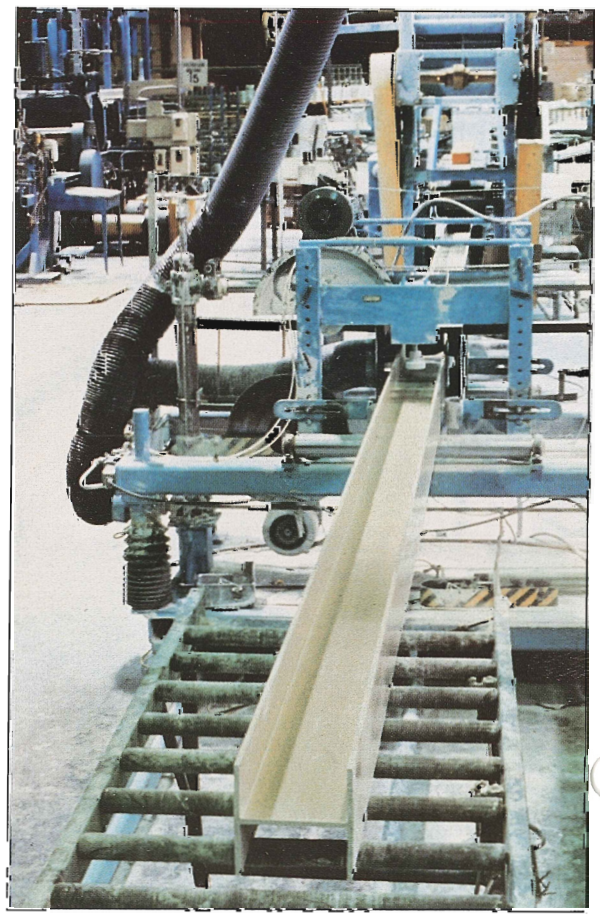
Pultrusion: The proven process for producing strong, durable and corrosion resistant structural components. Thermal-Dynamic's pultrusion process uses only the highest quality resins and fibers to ensure a long lasting composite structure. Pultrusion is the process of pulling fiberglass filaments through a bath of thermal setting resins into a heated forming and curing die. The result is a very strong highly corrosion resistant composite member. Extensive laboratory and field testing enable us to design a composite structure which has definite and predictable characteristics.

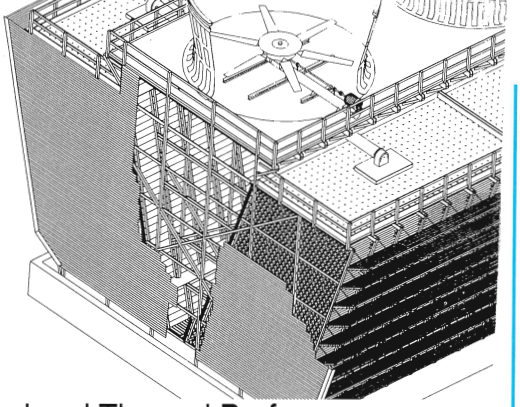


Advanced Composite Technology



The Pultrusion Process





Fiber-Last™

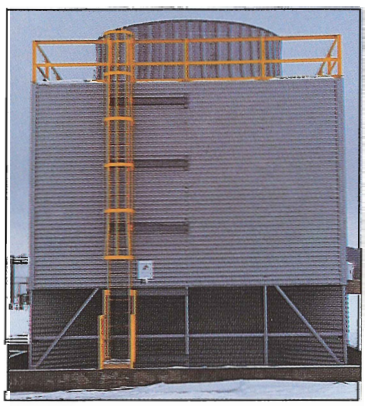
Proven Structural and Thermal Performance



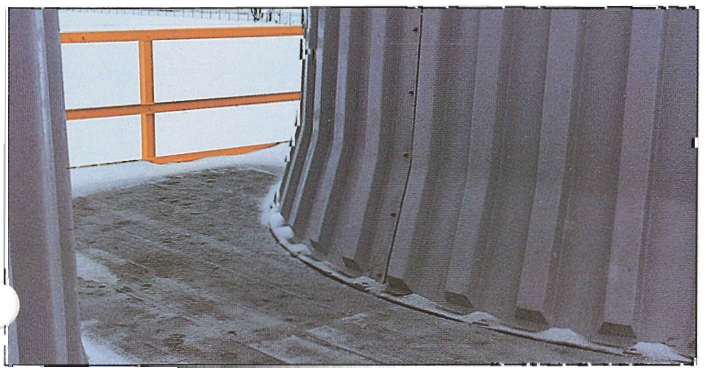
• *Pultruded Composite Structure*



• *Fiberglass Stairway .*



•*Escape Ladder.*



• *Non-Skid FRP Fan Deck and Safety Handrail.*

The **Fiber-Last ™** series towers are available in counterflow or crossflow designs. All towers are delivered to the job site pre-cut and predrilled to exact specifications from our manufacturing / fabrication facilities. Field assembly time is kept to a minimum with our experienced field service technicians. For smaller size towers an optional fiberglass basin is also available.

Standard Features of the Fiber-Last™ Series Tower

- All structural members are made of non-corrosive pultruted composite materials.
- The FRP fan deck has a permanent non-skid surface.
- Stairways and escape ladders are made of low maintenance FRP material, with non-skid stair treads and ladder rungs.
- All towers are available with either PVC film pack fill or polypropylene splash grid fill.
- Each cell is fitted with a high efficiency FRP fan assembly and non-corrosive composite drive shaft.
- Water distribution system comprises high strength FRP header combined with PVC lateral lines and polypropolene spray distribution nozzles.
- Energy saving FRP velocity recovery fan stacks enhance tower performance.
- Non-corrosive stainless steel connecting hardware is used on all joints.

Fiber-Last™

Advanced Features		Cost Savings/ Benefits
• Non-corrosive virtually maintenance free composite structure.	—	Reduces annual maintenance and chemical treatment costs.
• Low flame spread- Class 1, self extinguishing fire rated structural members.	—	May not require expensive fire protection system or wet down system.
• No caustic preservative treatments required.	—	Environmentally safe.
• Lightweight composite structure.	—	Reduced basin costs.
• Non-skid FRP fan deck.	—	Safe working maintenance surface.
• Non-skid FRP stair treads and escape ladders.	—	Year round safety.
• Non-conductive composite structure.	—	Reduces the hazard of electrical shock.
• Non standard structural shapes and lengths available.	—	Reduces the number of joints required.
• All joints are bolted and chemically bonded.	—	Stronger and longer lasting structure.
• Color impregnated handrails,escape ladder and stairways.	—	Maximum safety and low maintenance.
• Stocked replacement members.	—	Fast turnaround in an emergency situation.
• Proven structural design.	—	Longer service life.
• Designs that fit on existing basins.	—	Low replacement tower costs.
• Advanced UV inhibiting resins and coating of all exposed members.	—	Enhances tower life and appearance.

Represented By:

Thermal-Dynamic Towers, Inc.
12600 West Colfax Avenue • Suite A550
Lakewood, Colorado 80215
(303) 238-2500 • FAX (303) 238-2583

CANADIAN DIVISION-
Edmonton, Alberta
1-(800) 648-8911
(Within Canada)