

Cooling Tower Solutions

Product overview-

Arvind provides a full range of pultruded profiles, gratings, fan-stacks, fan blades etc as a one-stop shop for all cooling tower FRP needs. With strong emphasis on quality and delivery commitments, we believe we can become a trusted and reliable partner for you. The manufacturing processes being used to make the range of products are pultrusion, contact moulding/hand layup and filament winding. We have supplied material to more than 50 countries for different projects and are happy to provide material to your warehouse or directly to the end site.

Our main production facility is in Gujarat, India along with a fabrication shop in Benton, Illinois, USA as well.

Key highlights of the product category (7-10 bullet points)

- **Design Flexibility**
- **Low specific weight**
- **Superior mechanical properties**
- **Thermal insulation**
- **Vast variety of colour schemes available**
- **Chemical and corrosion Resistance**
- **High strength to weight ratio**
- Electrical Insulation
- Flame retardant
- Rapid Installation
- Durable and low-maintenance
- Long life span

Range of products under the broad product category: (rough and random example below)

- Pultruded Structural Profiles and Decking system
- Fan stacks / Fan rings
- Cladding / Casing panels
- Speciality moulded parts: Saddles, Basins, Hoods
- Headers and Supports
- Stair treads / gratings

Individual product info required: (will need the below info for each of the products stated under "Range of Products" head)

Pultruded Structural profiles and decking system

Arvind Composites manufactures pultruded profiles like square pipe, angle, channel and I-beams used as the main structure for the cooling tower. These profiles are manufactured in compliance with product specific requirements such as EN 13706, CTI 137, ASTM E84 etc. We also have more than 50+ trained manpower to provide fabricated parts as per your drawings. This is done through our 10 fabrication lines capable of drilling, slotting and cutting (angular, circular, 90 degrees) or our 3 CNC machines capable of completing complex fabrication with high precision. Each piece is marked and identified for tracking as per your drawings. Also, Sea and Air worthy packing is done with metal Cages / wooden as required. We also provide a range of decking options from 1 feet wide to more than 2 feet wide with or without antiskid to suit your requirements.

Key highlights

- 28 pultrusion machines capable of producing ~600 Metric Tonne/month
- 300+ skilled manpower for pultrusion
- Fully equipped mechanical and chemical laboratory for incoming and outgoing material
- Glass fabric manufacturing facility (in JV with PD Group) with capacity of 1000 tons/month
- Strong design team and own CNC based fabrication facilities
- Arvind Profiles have been tested & Certified at Intertek, CRTM Malaysia, Lapi Italy and ATIRA
- 100% material is inspected after machining before dispatch
- Fabrication shop in Illinois, USA with 1 million+ linear feet of profiles available in stock anytime

Fan stacks / Fan rings

Arvind Composites manufactures a range of different fan stacks / fan rings for both wet cooling towers as well as the air cooled condensers in compliance with the requirements of CTI 124 standard. We do a range of sizes with diameters from 12' to 40' and heights from 4' to 20'. We are happy to manufacture as per your drawings or we could provide complete solutions including design, analysis and manufacturing. We can make our own moulds in-house using CNC machines.

Key highlights

- Fanstacks assembled at our site to simulate assembly and blade movement before dispatch
- 150+ skilled manpower for hand-lamination
- Fully equipped mechanical and chemical laboratory for incoming and outgoing material
- Glass fabric manufacturing facility (in JV with PD Group) with capacity of 1000 tons/month
- Strong design team and own CNC based fabrication facilities
- Arvind Laminates have been tested & Certified at Intertek, CRTM Malaysia and ATIRA
- One side or two side gelcoat finish can be provided
- UV protection upto 1000 hours as per ASTM G154

Cladding / Casing panels

Arvind Polser Engineered Composite Ltd manufactures a range of FRP casing panels / sheets for the cooling tower industry. The technology comes from the parent company Polser A.S based out of Izmir, Turkey who have been supplying FRP sheets for a range of applications since the last 30+ years. These profiles are manufactured in compliance with product specific requirements such as ASTM D-3841, CTI 131, ASTM E84 etc.

Key highlights

- 30+ years' experience in manufacturing FRP panels
- Two manufacturing locations – India and Turkey
- Fire Barrier Applications – FRP solid panels that comply with 20 min fire resistance as per ASTM E119
- Fully equipped mechanical and chemical laboratory for incoming and outgoing material
- Glass fabric manufacturing facility (in JV with PD Group) with capacity of 1000 tons/month
- 3 World Patents