

C H E M P O S I T E[®]

**FIBERGLASS REINFORCED
PLASTIC HOODS & COVERS**

INDEX

PAGE

General FRP Arch Cover	2
Cup Core® Long Span Flat Cover	3
E-Z Slide Cover System	4
T - Deck® Cover System	6
Large Diameter Dome Roof	7
Equipment Covers and Hoods	9

Chemposite FRP hood and cover system are designed to reduce equipment emissions for safe clean air environments indoors and out. To cover, protect and shield your equipment from outside elements and safeguard vessel contents against contamination, we select the best combination resin, glass, additives and fabrication methods to ensure you receive the best product possible for your application with our qualified products.

Our services include on-site visits and meeting; on-site measurements; design and engineering; precision mold building and fabrication; installation supervision and consultant.





Chemposite Arch Cover is widely used in the Waste Water Treatment Plants for safety environmental protection and to prevent algae growth. The common areas for the covers are:

- Aeration Tank
- Sedimentation Tank
- Effluent Pond
- Scum Pit
- Channels
- Grit Chamber
- Inlet Works

SPECIAL FEATURES

- Corrosion Resistant
- High Strength to Weight Ratio
- UV Protection
- Fire Retardant to Class I per ASTM E-84
- Slip Resistant
- Maintenance Free
- Ease of Installation
- Non-Conductive



Incorporating Chemposite's fiberglass pressure molded panel and vacuum forming technique, our new Cup Core structural sandwich panel is designed for safe flooring and cover systems. These excellent structural and chemical resistant characteristics of Chemposite's Cup Core panel make our products the material of choice for industrial and municipal applications.

Cup Core Panel systems are perfect for demanding environment in numerous industries:

- Chemicals
- Pulp & Paper
- Mining & Metal Plating
- Electronic & Electrical
- Transportation & Marine
- Water & Wastewater Treatment
- Oil & Gas

APPLICATIONS

Chemposite's Cup Core panels are the solution wherever systems are subject to corrosion, rapid deterioration, and constant maintenance problems. It is ideal for the installation area with a long span but cannot afford the placement of any support members such as posts and beams in between. Double Cup Core panels can be bonded for added strength and stiffness. Please check with Chemposite's technical staffs for design details.

- Flooring & Walkway
- Equipment Covers
- Bridges & Platforms
- Tank & Trench Cover



Municipalities are looking for more efficient tank cover systems to contain off-gases, reduce algae growth, simplify maintenance and repairs, and cut expenses. Retractable, structurally-supported covers have become an increasingly attractive option for streamlining wastewater plant operations.

Chemposite's E-Z Slide Cover System provides an unprecedented level of flexibility and ease-of-access for tank monitoring, maintenance and repairs for the municipal wastewater and drinking water plants.

Depending on their size, both aluminum and fiberglass covers being rigid and heavy, can be bulky and difficult to maneuver for workers while perched above an open tank. This tricky maneuver requires a fair amount of labor-both to remove the panels off, place the covers aside and later put the covers back on – but also poses a potentially significant safety hazard for the workers.



Our E-Z Slide Cover System, utilizing the Cup Core technology, is a structurally self-supporting cover system – invented, engineered and built by Chemposite – consist of an inner and outer composite sheet of high-strength, UV-protected, low-profile FRP arches and bonded to the Cup Core sandwich panel which spans across the tank to a normal length of 6m. The normal width of each section can range from 1000mm to 1500mm and supported on stainless steel tracks along both sides.

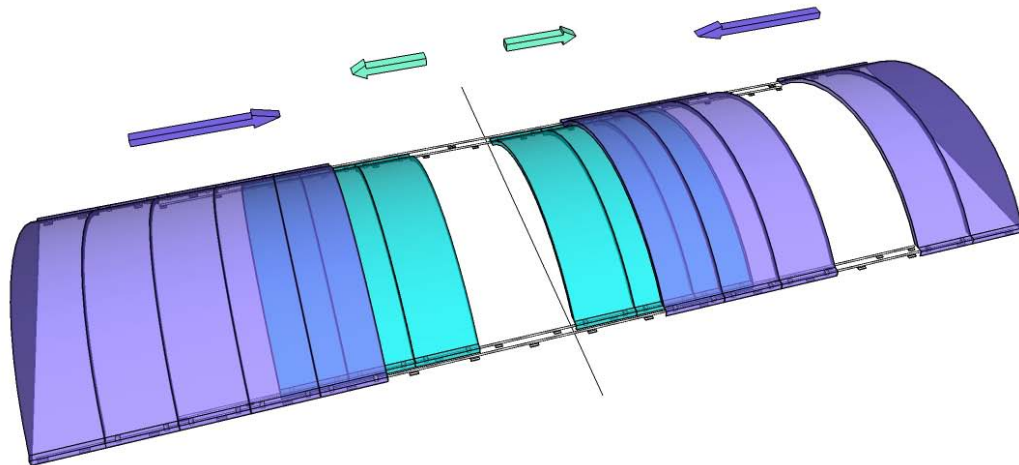
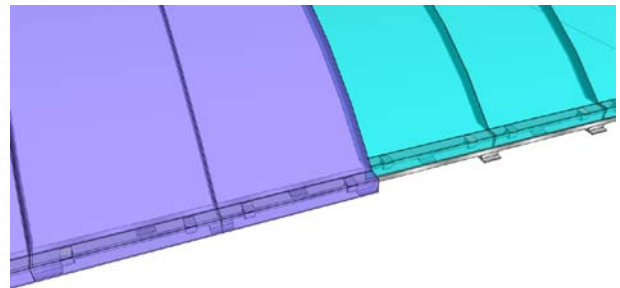
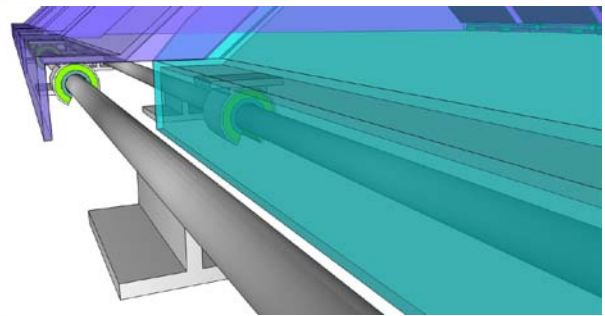
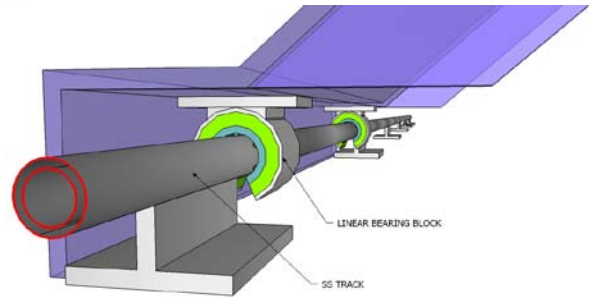


The E-Z Slide Covers are gas-tight, operating under negative air pressure. A ventilation system draws air through the tank and underneath the covers, and pulls along with it the off-gas from the aeration process. Off-gas removal piping is connected directly to the cover system and out to a soil filter for odor scrubbing.



INSTALLATION

- 1) The installation of the FRP covers shall cause no obstruction or interference with the flow inside any part of the treatment unit. The completed covers shall have no adverse effect on the flow capacity and condition of the treatment unit as before the cover installation.
- 2) The covers shall be installed in a manner such that any future removal, reinstatement and replacement of any parts of the covers can be carried out manually with hand tools and small equipment.
- 3) During the cover installation, all covered tanks shall be fully ventilated to prevent build up of gases to the explosive and occupational limits.
- 4) Most of the working places such as pits, chambers, channels and tanks are classified as confined spaces. The Contractor shall take extra care and provide sufficient ventilation in the works area for the execution of the work. The Contractor shall comply with all latest regulations for working in confined space. The Contractor shall note and fulfill all requirements regarding working in confined space under relevant ordinances/regulations.





Chemposite T-Deck cover systems are the solution wherever systems are subject to corrosion, rapid deterioration and constant maintenance problems.

The characteristics of resin and glass composite technology and advanced manufacturing techniques used in the production process make FRP T-Deck products ideal for a wide range of applications:

- Flooring
- Stairs and Platforms
- Equipment Covers
- Tank Covers
- Trench Covers

OPTIOANL FEATURES

Fire Retardant

Tested in accordance to the ASTM E-84 Tunnel Test Method, a Class 1 Flame Spread Rating of 25 or less was achieved for our standard flooring and cover products.

Slip Resistant

Silica sand is added to the flooring surface to provide a durable, non-slip surface for traction and safety. Evenly located perforation on the panel surface (optional) will eliminate the condensation of any liquid of rainwater.

Air Seal

To further prevent the escape of poisonous or odorous gas into the environment, a sealing gasket along the interlocking tongue and groove interface can be attached between each panel. A Z-Beam™ support can also be installed around the perimeter of any tanks or equipment to allow a gas tight seal at the panel ends and permit installation while the tank is in operation. Furthermore, the Z-Beam™ can accommodate any irregularities along the mounting surface and the sealing strip can provide a gas tight seal to the equipment or tank.



With over 30 years of composite engineering and fabrication experience, Chemposite had supplied over hundreds of tank and equipment covers and roofs to the industries worldwide.

Utilizing the latest production technique in contact molding and vacuum infusion process, we can produce a complete dome roof up to 25 meters in diameter within 3 weeks complete with trial assembly at our plant for your inspection prior to shipment. The efficient design on our dome roof system could enable you to assemble any large dome roofs on site with 3-4 tradesmen and a crane operator within 3 days. The high strength to weight ratio from the vacuum infusion process can reduce the laminate thickness and weight in order to ease the supporting structure and installation requirement.





Each pie shaped section are designed for economical and flexibility for transportation, easy installation and tight seal for harsh environmental application.



A range of dome accessories are available. Included are access hatches, windows, skylights, manways, full size personnel doors, vent and pipe flanges.



Chemposite FRP hood and cover systems are designed to reduce equipment emissions for safe clean air environments indoor and out.

To cover, protect and shield your equipment from outside elements and safeguard vessel contents against contamination, we select the best combination resin, fiber reinforcement, additives and fabrication methods to ensure you receive the best product possible for your application.





Our trademarked GULLWING Washer Hood enable a tight seal and the ease of maintenance for any bleach plant application and accepted widely in most pulp mills in North America.

Our experienced engineering team can provide on site measurement and design to meet your special requirements including:

- Washer Hoods
- Mud Filter Hoods
- Paper Machine Canopy
- Tank Roofs and Covers
- Aeration Tank Roofs
- Walkway Covers
- Acoustic Fan Enclosures
- Floatation Roofs
- Equipment Covers

