

GFS TANKS

Glass-Fused-to-Steel Tanks

Durable & Corrosion-Resistant Storage Solutions.

Build It Right. Build It Once. Build It For The Future.



STREAMINDUS
ENGINEERING SERVICES PVT. LTD.



Director's Message



At **Streamindus Engineering Services Pvt. Ltd.**, we are committed to delivering storage solutions that ensure durability, efficiency, and long-term performance. Our Glass-Fused-to-Steel (GFS) Tanks combine the strength of steel with the corrosion resistance of glass, making them ideal for demanding industrial, municipal, and agricultural applications.

Engineered for superior service life with minimal maintenance, our GFS tanks reflect our focus on quality, innovation, and sustainable infrastructure development.

We remain dedicated to providing reliable and technologically advanced solutions that support the evolving storage needs of modern industries.

Warm Regards,
Babita Goyal & Plasha Goyal
Streamindus Engineering Services Pvt. Ltd.



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Introduction



At Streamindus Engineering Services Pvt. Ltd., we specialize in providing innovative engineering solutions, and our Glass-Fused-to-Steel (GFS) tanks are a testament to our expertise. These tanks are created by fusing two robust materials – glass and steel – at high temperatures, resulting in a durable and corrosion-resistant storage solution. With our advanced engineering design and manufacturing capabilities, we deliver GFS tanks that offer superior protection against harsh environmental conditions, making them ideal for various industrial and municipal applications.

Corrosion resistance due to fused glass coating.

Resistant to harsh weather and extreme pH levels.

High mechanical strength of steel structure.

Suitable for water, wastewater, and chemical storage.

Low maintenance and long lifespan.

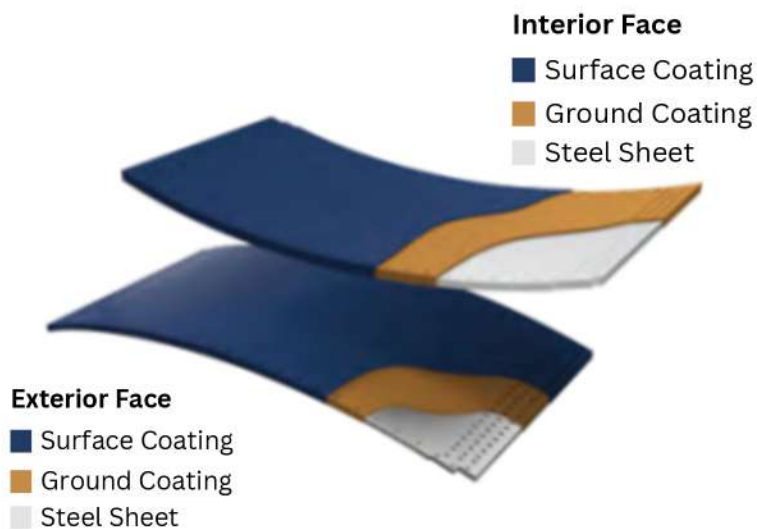
Easy transportation and modular installation.



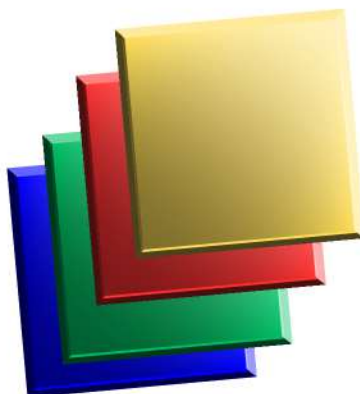
WHAT IS GFS TANKS?



After firing at 820 ° C-930 ° C high temperature, the molten glass reacts with the steel plate surface to form an inert and inorganic bond, which combines the strength & flexibility of steel and outstanding corrosion resistance of glass, therefore GFS tanks can provide many advantages over standard epoxy or welded painted storage tanks.



Glass-Fused-to-Steel technology is the premium coating technology in the storage tanks market, and GFS tanks are widely used in bio-energy, municipal sewage, landfill leachate, industrial, wastewater treatment and other applications.



COATING PROPERTIES

Coating Thickness: 0.25-0.40 mm

Double Coating: 2 layer each side

Adhesive Power: 3,450 N/ cm

Coating Elasticity: 500kN/mm

Hardness: 6.0 (Moh's hardness)

Service life: > 30 years



GFS TANKS TECHNICAL SPECIFICATION

Parameter

Details

Material

Glass-Fused-to-Steel (GFS) - Steel coated with a layer of glass

Diameter

3 meters to 30 meters (customizable based on requirements)

Height

3 meters to 20 meters (customizable based on tank capacity)

Thickness

Glass coating thickness: 0.3 mm to 0.5 mm, Steel thickness: 2 mm to 10 mm

Coating/Finish

Glass coating fused to steel at high temperatures (corrosion-resistant)

Types

Bolted GFS tanks (modular, easy to assemble and transport)

Temp. Resistance

0°C to 100°C (can be designed for higher temperatures based on application)

Design Life

30 to 50 years, with low maintenance and high durability due to the corrosion resistance of the glass coating

Accessories

Inlet/outlet pipes, Manhole, Level indicator, Overflow valve, Drain valve, Vent valve

Applications

Used for potable water, wastewater treatment, chemical storage, and other industrial liquid storage needs

Capacity

Details

Minimum Capacity

20,000 liters (20 m³)

Maximum Capacity

10,000,000 liters (10,000 m³)



APPLICATION OF GFS TANKS

Power & Energy

- Biogas Storage
- Fly Ash Silos
- Boiler Feedwater
- Biomass Energy
- DI / RO Water
- Process Water
- Coal Storage
- Fermentation Tank



Waste water Treatment

- Buffer Pool
- Aerobic Reactor
- Anaerobic Reactor
- Biological Filter
- Regulation Tank
- Leachate Storage
- Sedimentation Tank
- Sludge Tank



Water Supply & Treatment

- Potable Water
- RO Water
- Raw Water
- Desalination
- Fire-Fighting Water
- Brine Water
- Clarification Pool
- Aeration Tank



Industrial Dry Bulk Storage

- Lime Silos
- Minerals
- Chemicals
- Petrochemicals
- Mining Industry
- Food Products
- Plastics
- Grain / Seeds





Manufacturing Process of GFS Tank Panels





STREAMINDUS
ENGINEERING SERVICES PVT. LTD.

GFS TANK COLOR OPTION



Grey Olive



Black Blue



White



Forest Green



Red



Sky Blue



Evening Haze



Cobalt Blue



Desert Tan



Mist Green

GFS TANK COLOR OPTION



Glass-Fused-to-Steel Roof

- *Air-tightness, often utilized for pressurized structures and provide a suitable option for odour control*
- *Cone shape roof with external / internal beams*
- *Viable solution for demanding applications*



Aluminum Alloy Trough Deck Roof

- *Economical option for potable water, waste water, and fire water storage etc.*
- *Keep out rain and wind, odour control*
- *Without air-tightness*



ACCESORIES



Roof Handrails



Access Ladders



Manways and Nozzles



Three-Phase Separator (GLSS)



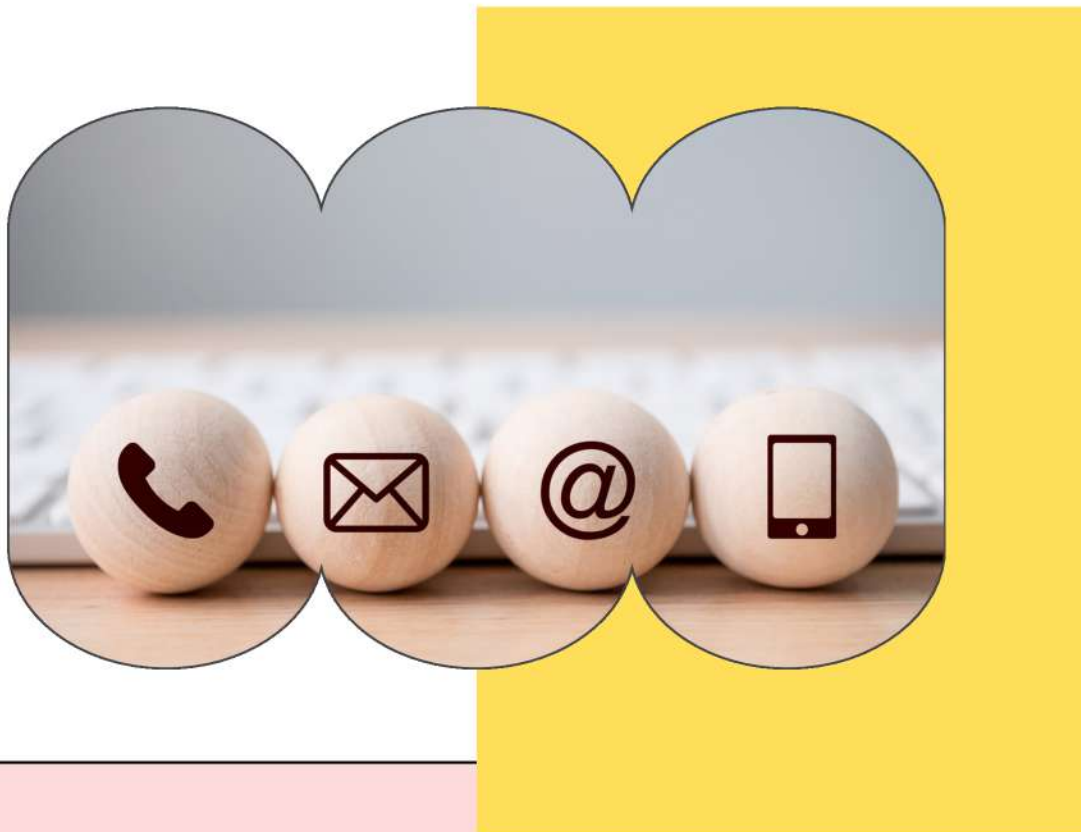
**Mixing System and
Other Systems**

Engineered accessories designed to enhance the safety, functionality, and operational efficiency of GFS Tank systems.



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Keep In Touch



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