

Composite Claddings

FLOXY-CLAD®



BKA Industrial Group
RTP, GRE, Fitting & Cladding

FLOXY
High Pressure Pipe & Fitting
Oil, Gas & Petrochemical

About Behesht Kavir Ariana

Established in 2008, Behesht Kavir Ariana has emerged as a specialized provider of composite pipes, fittings, and protective coatings, serving a broad range of industries including oil, gas, petrochemical, and municipal water systems. The company's production facility is equipped with advanced European technology, enabling high-quality and reliable manufacturing processes that meet the demands of critical infrastructure applications.

Strategically, BKA located in Qazvin Province, approximately 100 kilometers west of Tehran, the facility offers efficient logistical access to key industrial and regional markets across the country. Behesht Kavir Ariana operates under an Integrated Management System (IMS), ensuring operational excellence, regulatory compliance, and continuous improvement across all aspects of its operations.



Composite Claddings (FRP Cladding)

FLOXY-CLAD® composite claddings (FRP Cladding) are prefabricated fiberglass-reinforced plastic (FRP) shells designed in forms such as straight pipes, elbows, reducers, and tees. These components are used to provide mechanical protection for cold insulation systems on steel LPG pipelines. Specially engineered with fire-retardant properties, these claddings are ideal for preventing corrosion under insulation (CUI). They are characterized by low flammability, short fire duration, and self-extinguishing behavior—meeting the rigorous operational requirements of the oil and gas industry.



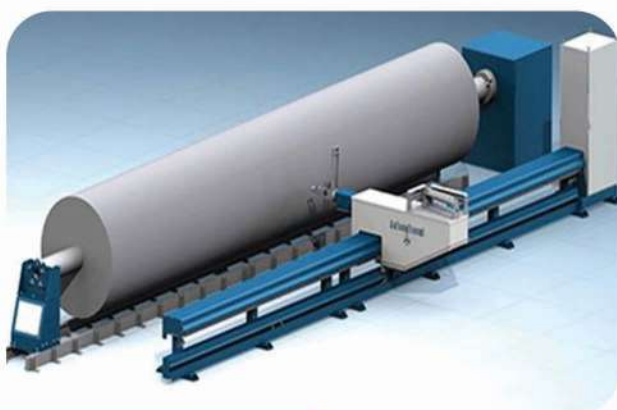
Design Standards

This product meets the design and performance requirements set forth by the National Iranian Oil Company (NIOC) and Total, as detailed below.

- GS EP COR 772- Thermal insulation (cold service)
- BTB01-G-00-000-B-PI-GEN-SPC-006-4-Specification for Insulation

Production Method

Composite claddings are manufactured using an automated filament winding process. These components are formed by winding specially treated glass fibers around a metal mandrel. The fibers are pre-impregnated with a mixture of polymer resin and specific additives. After the resin undergoes chemical curing, the composite cladding is produced with the desired mechanical properties, corrosion resistance, and fire retardancy.



Key Features

- Diameter up to 1000 mm
- Length ranging from 1 to 3 meters
- High mechanical strength
- Fire resistant
- Resistant to ultraviolet (UV) radiation
- Chemical resistant
- Resistant to corrosion under insulation (CUI)
- Easy transportation and installation
- Complete sealing of joint connections

Installation

- layer wrapping
- Lap bonding with adhesive (following steps)

