AMIANTIT Germany
Your Partner in Hydraulic Engineering
The Saudi Arabian AMIANTIT Company (SAAC) was established in Saudi Arabia in 1968 and since then it has systematically expanded its activities, both geographically and in product terms. The AMIANTIT Group’s pipe systems have thus become the first choice in the construction of pipe networks, with almost 30 manufacturing facilities as well as various technology centres around the world ensuring that AMIANTIT’s products are and remain among the market leaders. In addition, an extensive network of sales offices takes care of the needs of an international clientele.

Since 1994, AMIANTIT Germany GmbH has been producing FLOWTITE glass fibre reinforced plastic pipes (GRP pipes) using the continuous winding process. They are available in standard lengths of 3, 6 and 12 metres, and nominal diameters ranging from DN 100 to DN 4000. With the technical and financial resources of the AMIANTIT Group behind it, AMIANTIT Germany offers its customers the best product and the best advice for almost any application. As a leading producer of GRP pipe and manhole systems for sewage, water and the industrial market, AMIANTIT Germany provides products of the highest quality combined with optimal technical support.

Do not hesitate to contact us. Your individual contact person can be found at info-de@amiantit.eu

The AMIANTIT Group

Products

FLOWTITE GRP Pipeline Systems

FLOWTITE GRP pipes are produced using a continuous winding process. This process represents the state-of-the-art in GRP pipe manufacture. During manufacturing, among others, continuous glass fibres are worked in by being wound on a metal cylinder in a circumferential direction. AMIANTIT Germany’s production is certified to ISO 9001 and the finished products meet the requirements of EN 1796 and EN 14364. Further certifications are available on request. FLOWTITE GRP pipes are characterized above all by their light weight, corrosion resistance and simple assembly. The pipes can be joined using a choice of systems:

- Plug coupling for sewer (PN 1) and REKA coupling (to PN 32)
- Plug coupling tensile by key-lock-system
- Plug coupling tensile by injection
- Tensile flange coupling
- Tensile laminated coupling

Product Range:

- Diameter: DN 100 – 4000
- Pressure Classes: PN 1-6-10-16-25-32
- Stiffness: SN 2500, SN 5000, SN 10000
- Standard Lengths of 6m and 12 m
The Water Cycle

**Pressure Pipelines for Hydropower Plants**

FLOWTITE GRP pipes and fittings from DN 100 to DN 4000, PN 6 to PN 32, SN 2500 to SN 10000.

**Waste Water Systems, Storm Water Overflow Basins, Storage Sewers**

FLOWTITE GRP pipes and fittings from DN 100 to DN 3000, PN 1 to PN 32, SN 2500 to SN 10000. Double-walled systems for water protection areas. Certified and approved to EN 14364.

**Transport and Irrigation Pipelines**

FLOWTITE GRP pipes and moulded parts from 100 to DN 4000, PN 6 to PN 32, SN 2500 to SN 10000.

**Potable Water Pipelines and Tanks**

FLOWTITE GRP pipes available from DN 100 to DN 3000, PN 1 to PN 32, SN 2500 to SN 10000. AMIANTIT produces according to EN 1796 and is approved by DVGW, OVGW and KIWA.

**GRP Pipe Jacking**

AMIJACK GRP cast pipe systems with outer diameters between 427 mm and 2,453 mm and a standard ring stiffness from SN32000 up to SN1000000.
**Special Applications:**

- Well Pipes
- Bridge Pipes
- Shafts (valve shafts, pumping stations...)
- Fluid Storage tanks, Ballast Pipes
- etc.

**Storm and Rain Water Pipelines**

FLOWTITE GRP pipes and fittings from DN 100 to DN 3000, PN 1 to PN 10 and SN 2500 / SN 10000. Certified and approved to EN 14346.

**Cooling and Processing Lines in Industrial and Power Station Applications**

Pipes and fittings in GRP from DN 100 to DN 4000, PN 1 to PN 32, for above and belowground pipeline systems.

Main areas of application:
- Cooling Systems
- Fire Protection Systems
- Sea Water Inlet Systems
- Desulphurisation Systems.

**Pipe Relining – Trenchless Renovation Systems**

- GRP pipes and fittings from DN 100 to DN 4000, PN 1 to PN 32, SN 2500 to SN 10000.
- GRP mouth- and egg-shaped profiles from AMIREN.

**Reservoirs and Retention Systems**

GRP pipes in diameters from DN 100 to DN 4000, PN 1, SN 2500 to SN 10000.

**Certified and approved to EN 14346.**
Mouth- and Egg-Shaped GRP Profiles

AMIREN pipes are produced in a discontinuous process. Resin-impregnated, continuous and cut glass fibres are wound together with an inert filling of quartz sand on an individually formed rotating steel core. AMIREN pipeline systems promise a cost-effective and long-lasting solution. The outstanding product characteristics not only offer cost-effective solutions, but also many advantages during installation and in operation:

- Corrosion resistance
- High resistance to many chemicals
- Light weight
- Unique hydraulic characteristics
- Outstanding abrasion resistance
- High leak-tightness
- Low maintenance and service costs

AMIREN pipe systems transport different liquids with pH values between 1 and 10. The special profile forms are used in both new installations, as well as for relining older sewer systems.

This makes them the ideal product, above all in the following applications:

- Potable water systems
- Waste water networks
- Industrial waste water systems

The pipes are available in different cross-sections, e.g. egg-shaped, elliptical, parabolic, or as mouth-shaped profiles. AMIREN pipe systems are available in many standard sizes, or can be custom made to customer’s requirements.

AMIJACK GRP Jacking Pipes

AMIJACK jacking pipes are GRP pipes manufactured in a centrifugal casting process. The high compaction results in a composite with an extremely smooth inside and outside pipe surface. The pipe system is delivered in outer diameters between 427 mm and 2,453 mm with a standard ring stiffness SN (N/m²) between SN32000 and SN1000000 and in standard lengths of 1, 2, 3 and 6 m.

Some specific advantages and benefits of AMIJACK for jacking use are:

- Low specific weight of GRP material is reducing the handling efforts
- Usually low installation costs of jacking compared to open trench technology
- High axial compressive strength (min. 90 N/mm²)
- High maximum allowable jacking forces with small wall thickness
- Low required wall thickness for reduced jacking forces at maximum jacking lengths
- Materials low water adhesion results in small friction during jacking

Applications

AMIJACK pipes are used in pipeline construction for the transport of water, rainwater, sewage and industrial wastewater.

The pipes are primarily installed by jacking and predominantly used in:

- Construction of new sewer pipelines
- Old sewer replacements
- Channels as protective tubes for gas pipelines
- Road and technology culverts
- Electricity and telecommunication cable ducts in urban areas
- Relining
Utmost care has been taken to ensure that all the contents of this brochure are accurate. However, AMIANTIT and its subsidiaries do not accept responsibility for any problems which may arise as a result of errors in this publication. Therefore, customers should always make inquiries into the potential product supplier and convince themselves of the suitability of any products supplied or manufactured by AMIANTIT and/or its subsidiaries before using them.

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