



VERSTEDEN

LEIDINGSYSTEMEN BV



LEADING IN GRP



PROFILE

*Versteden Leidingssystemen designs, produces, assembles and maintains reinforced glassfibre polyester, vinyl-ester and epoxy pipes (GRP) fitted with PVC-U, PVC-C, PP, PE or PVDF internal liners or without. 70% of the clientele is active in the industry. The remaining 30% is divided amongst government, civil construction and the maritime market. GRP piping systems from Versteden can be found in industrial applications and in potable water control and sewage systems both inland and abroad.*

Versteden Leidingssystemen produces GRP pipes and fittings with expertise. The engineers, CAD-designers, production employees, assembly- and maintenance specialists all play an important role in the realisation of every job. Together they ensure the correct depth and breadth of technical knowledge. Versteden not only produces the piping systems, but also controls their assembly and maintenance. An expert team stands ready 24/7 to resolve any problems or calamities that may arise.

Versteden Leidingssystemen has been in the glassfibre reinforced piping materials industry since 1978. One can truly call them a pioneer. Through the years, GRP pipes have proven themselves. The added value of GRP piping can be seen in the low maintenance requirements, their flexible application possibilities and longevity. At the same time, Versteden Leidingssystemen has expanded into a business with more than 70 employees and a 10,000 m<sup>2</sup> plant. In the years since our beginning, we have earned the trust of our customers - they know we are good at what we do.



In our engineering and production work as well as in the assembly and maintenance, we offer customised solutions. By continuously improving the production process, we stay ahead of the competition. We offer what delivers results for our customers.

- The use of qualitative, high-value, low-maintenance pipes leaves the customer with free capital to invest in their market and products.
- We deliver from our own production allowing us to answer every question and every problem to be tackled.
- The correct mix of materials ensures the customer to receive the best solution.
- By signing a maintenance contract, the customer ensures minimum production stoppages and quick turnaround time.
- Disruptions are limited through regular expert checks by our certified maintenance team.



**ENGINEERING**

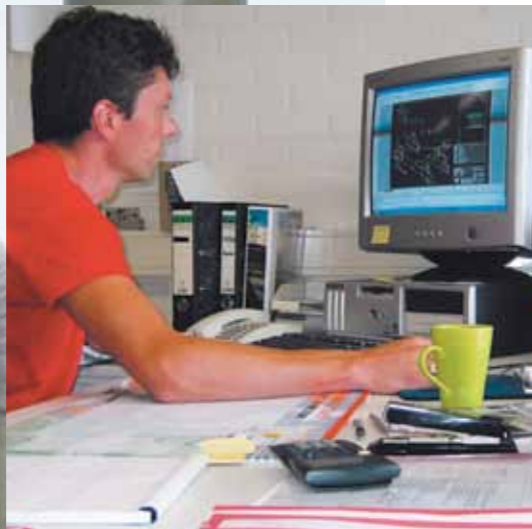
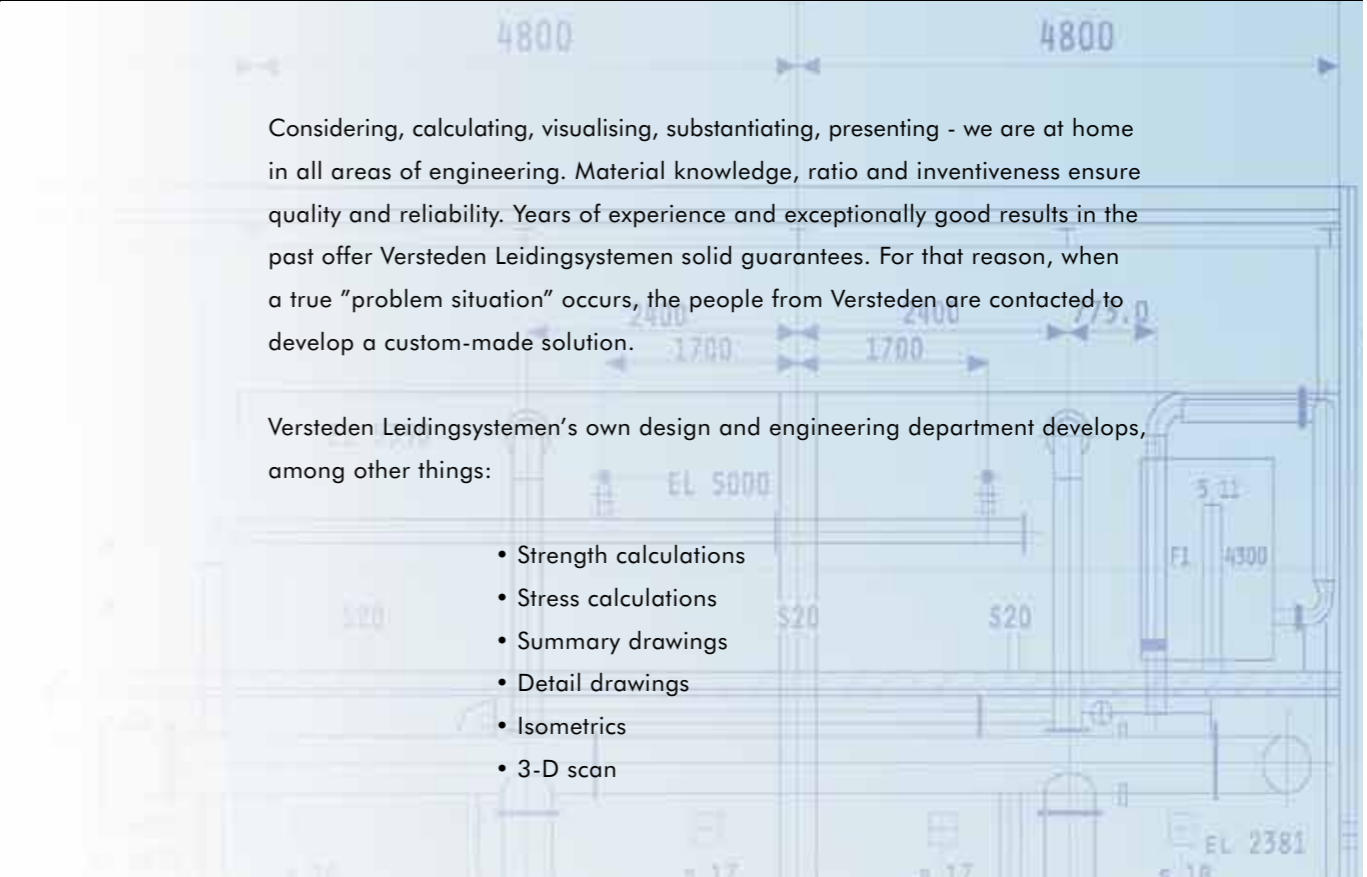
*There is a solution for every pipe and Versteden Leidingssystemen custom produces it - from drawing board to assembly and project management. Our focus on the possibilities and the latest developments in the area of GRP keeps us up-to-date and gives us insight into the newest techniques and applications.*

*Our rich project experience offers us the knowledge for pragmatic solutions. The right components are used to create the piping system the customer needs and our expertise in calculations, engineering, construction and assembly give the client a sense of peace.*

Considering, calculating, visualising, substantiating, presenting - we are at home in all areas of engineering. Material knowledge, ratio and inventiveness ensure quality and reliability. Years of experience and exceptionally good results in the past offer Versteden Leidingssystemen solid guarantees. For that reason, when a true "problem situation" occurs, the people from Versteden are contacted to develop a custom-made solution.

Versteden Leidingssystemen's own design and engineering department develops, among other things:

- Strength calculations
- Stress calculations
- Summary drawings
- Detail drawings
- Isometrics
- 3-D scan





ASSEMBLY & MAINTENANCE

*We rely on a long-lasting relationship with our clients. Quality and safety are therefore our top priorities. All our products are checked and guaranteed by ISO 9001:2000 standards and/or approving authorities as stipulated by the customer. Our assembly managers, project managers, foremen and fitters are VCA-certified - your assurance of guaranteed certitude.*

*We keep our employees current through internal training and schooling. They know like no other how to lay down a correct and reliable piping system.*

Several capable assembly teams are working for our clients on a daily basis. We ensure safe piping systems that precisely meet the agreed quality and other criteria. After internal training and certification in thermoplastic weld connections and in reinforcing with glassfibre reinforced polyesters, the assembly employees are ready to begin work.

By signing a maintenance contract, a customer ensures he will encounter a minimum in production stoppages. Disruptions are limited through regular expert checks by our maintenance teams. If, in spite of everything, a disruption does occur, Versteden Leidingssystemen delivers the required materials from its stock and the team is at the location within the agreed timeframe to quickly assist with the disruption.





**INDUSTRY**

*GRP pipes are used for various chemical lines, water processing systems, cooling-water systems, sewage systems, semi- and condensed water pipelines, fire fighting pipes and more, both above as well as underground.*

*Together with our engineers, the required components will be determined. The piping system will be designed and assembled, taking into consideration various factors including the environment in and around the pipe, chemical and thermal pressure, dimensions of the final product, placement opportunities and visibility.*

The safety requirements are high. The call for efficiency is great. The answer? Glassfibre reinforced piping from Versteden Leidingssystemen, of course. The industry demands strong, light-weight piping systems that are maintenance free and resistant against changes in pressure and temperature or chemical stress: glassfibre reinforced plastic with or without an internal thermoplastic liner is the solution.

The possibilities with GRP are endless. There is an application for this robust and flexible plastic technique in every field. You will find our products in the chemical, petrochemical and automotive industries, in aircraft and ship fabrication, in building constructions and the construction industry and in potable water & sewage works.

The most notable product characteristics are:

- excellent corrosion resistance
- light-weight
- good mechanical properties
- thermal stability
- non-conductive
- quick to assemble
- UV-, temperature- and weather resistant
- insulating
- maintenance-free
- applicable for pressurised and non-pressurised systems



Our customers include: Akzo, Dupont, DSM, Evides, LNG-Terminal Maasvlakte, Nyrstar, Sabic, Shell, Tessenderlo Chemie Thermphos en Vopak.



POTABLE WATER & SEWERAGE

*The GRP pipes from Versteden Leidingssystemen exhibit perfect flow-through, are waterproof, unlimited in diameter and flexible. This fact, coupled with the low maintenance, long life and simple assembly ensures that an ever increasing number of businesses, facilities and municipalities choose glass-fibre reinforced polyester for both potable water supply pipes and sewage lines instead of more traditional materials.*

Versteden supplies piping systems to the water supply and sewage markets with lock joint systems and in pressure classes up to 16 bar. Integral bell and spigot connections with double O-rings, locking strips and pressure test nipples increase the ability to verify the system is sealed. The client's desires are always put first and the specific situation is spotlighted.

Independently or together with the client, our experts create a piping system that meets all safety requirements and quality hallmarks. Manufactured to exceptionally high quality norms and according to the most recent methods in filament winding.

The advantages of GRP piping systems from Versteden Leidingssystemen:

- exceptional internal and external corrosion resistance
- light-weight
- thermally insulating
- non-conductive
- extremely smooth interior surface.





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