



American Bureau of Shipping



Die TPR Fiberdur GmbH & Co. KG.

- The Company was founded in 1962 by Youngstown Sheet and Tube Company/USA and the colliery association "Eschweiler Bergwerksverein".
- This 50/50% cooperation resulted in the Company "Deutsche Fibercast GmbH".
- Due to licensing concerns of Fibercast products Deutsche Fibercast changed their firm's name into Fiberdur GmbH in 1996.
- Since May 1996 the Company is located in Aldenhoven on a 30,000 sqm area which was, in former times, a coal mine of the "Eschweiler Bergwerksverein". Approx. 10,000 sqm of this area are meanwhile covered with buildings for production and administration.
- In 2002 the Company was sold to an UK holding doing business under the name of Fibagroup Ltd.
- In 2004 property and know-how were acquired by the newly founded TPR Fiberdur GmbH & Co. KG.
- Behind the name TPR Fiberdur GmbH & Co. KG. are more than 40 years of experience in the field of GRP and a trademarked company name, well known all over the continents.



**GRP
Pumps
Riser Pipe**
cost-effective
maintenance-free
resistant



TPR Fiberdur GmbH & Co. KG.
Industriepark Emil Mayrisch
Galileo-Allee 6
D-52457 Aldenhoven

Your contact:

Michael Stötzel / Christophe Mathonet

Tel: +49 (0) 2464 972 0
Fax: +49 (0) 2464 972 115

info@fiberdur.com

www.fiberdur.com



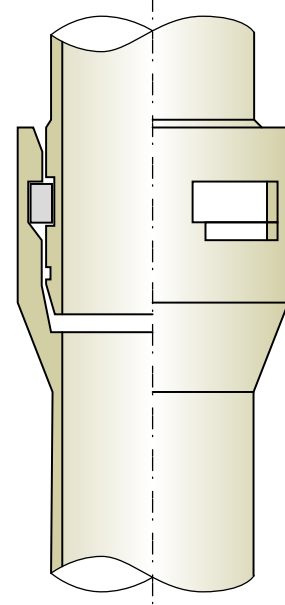
cost-effective
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resistant

Compared to erections made of steel or stainless steel, buried GRP pipes show decisive advantages which, particularly, come in useful in the field of well-constructions or piping constructions to obtain geothermal energy.

Glassfiber reinforced Piping systems (GRP) are absolutely resistant to rotting and corrosion. Piping elements have got low weight even though equipped with high consistency and stability against vibration.

Due to our fully developed screw-free connection technology installation works can be made fast and worth the money. The low dead weight of the piping system pays off in easy handling and transport.

GRP pumping riser pipes are, furthermore, maintenance free, so that the Fiberdur solution is extremely profitable in the long term.



Fully developed quality – optimized material

For more than 40 years we have been producing piping systems made of GRP. Material composition, wall structure and product engineering have been optimized. Fiberdur piping systems meet highest quality requirements.

The manufacturing of Fiberdur pipes is made through the filament-winding procedure on the basis of phenacrylate resins (vinyl ester resin) or epoxy resins. Curing is made in a curing station at temperatures of more than 90 °C (VE) or 100 °C (EP). This curing process guarantees the elementary fibers to be thoroughly impregnated. Standard production lengths are approx. 6 m for DN 25 - DN 100, 10 m for DN 100 and more. The available dimensions are DN 25 - DN 1200.

Wall structure – from the inside to the outside

- Corrosion barrier (chemical protection layer) consisting of C-glass-veil and resin, thickness 0,5 mm
- E-textile glass rovings in the form of cross wound layers, impregnated with resin
- Corrosion resistant layer outside made of resin and polyester veil

Wall thickness and quantity of layers of the reinforcing material according to requirements. Glass content in the structural layer is $70 \pm 5\text{weight}\%$, in the chemical protection- and abrasion layer it is $25 \pm 5\text{weight}\%$.

Connection systems

- Axial restraint key lock Connection with anti rotation resistance (ZSM)
- Screwed connection
- Flange connection

Standard Dimensions Fiberdur Pump Riser Piping

DN	Wall thickness	Weight of pump	Weight of cable	PN	Length available	Depth
mm	mm	kg	Kg/m	bar	m	m
50	7	600	9	16	6	300
65	6	700	9	16	6	300
80	6	1000	9	16	6	300
100	6	1000	9	16	10	300
125	6	1000	9	16	10	300
150	7	1000	9	25	10	300
200	8	2000	9	25	10	300
250	9	2000	9	40	10	300
300	10	2000	9	40	10	300



Of course we fulfill all quality standards of a modern, worldwide operating company.

Fibergeotherm® - Geothermal - Double Pipe

Our Fibergeotherm® - Double Pipe was developed for the exploitation of warm water. It is made of GRP with an insulating air layer. Only a bore hole is necessary to gain cost-efficient warm water. At the outside, the return-circuit water is warmed up at the bore hole, in the inside of the pipe the warm water rises upward to the consumer. Due to the insulating air layers in the double pipe the Fibergeotherm® heating system of Fiberdur is extremely efficient.

Conclusion: Our Fibergeotherm® - Double Pipe is your solution for low-priced heating.

Fiberscreen® Wellscreen Pipe

Our Fiberscreen® Pipe is your solution for the exploitation of water in water wells. It is tested at 200 bar external pressure and can be applied under these conditions. Due to the use of our ZSM-connection (Axial restraint key lock Connection with anti rotation resistance) installation is easy and fast. The fine-meshed filter system guarantees a high filter effect and thus ensures a long-lasting service.



GFK	Stainless Steel	St52	
++	+	-	High chemical resistance
++	O	-	No rotting, no corrosion
++	+	+	High strength, also against vibration
++	O	O	Very high strength with regard to weight
++	-	-	Easy handling, low weight
++	+	+	Fast and efficient installation
++	++	+	Proven and fully-developed technology
++	+	-	Solutions with optimized material
++	++	-	Absolutely maintenance free
++	+	-	Smooth inner surface, low flow resistance
++	-	-	Less adherences
++	+	+	Tough connection technology because of no screwing