



20 YEARS FIBERLINE WARRANTY

Fiberline provides a 20-year warranty for the mechanical properties of our pultruded FRP-products mentioned below. The warranty also includes a guarantee against corrosion in accordance with the details of this document.

1. Warranty provider

1.01

This guarantee is issued by Fiberline Building Profiles A/S (VAT number 34600775), Barmstedt Allé 5, 5500 Middelfart (hereinafter: "Fiberline").

2. The warrantee

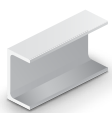
2.01

This warranty can be invoked by the owner of the products covered by the warranty cf. clause 3. The owner of the products can be a legal entity or a natural person. The warrantee is hereinafter mentioned as "Owner".

3. Products covered by the warranty

3.01

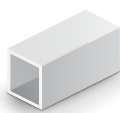
This warranty covers Fiberline's pultruded glass fibre reinforced polymer pultruded cross-section, see the product description and designation below. The guaranteed glass fibre reinforced polymer cross-section is hereinafter referred to as GFRP profiles.



U-profile



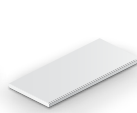
I-profile



Square tube



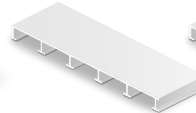
Angle profile



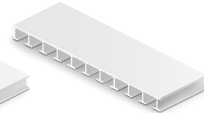
Strip profile



Handrail



MD plank



HD plank



UD plank



4. Scope of the warranty

4.01

This warranty applies alongside the Sales and Delivery Conditions of Fiberline. The Owner states that the Owner has read and understood the Sales and Delivery Conditions of Fiberline.

4.02

The warranty covers mechanical properties, corrosion, rust and rot over a lifetime span of 20 years.

4.03

The warranty is subjected to the following guidelines:

- Temperature effect in no lower than -40°C and greater than $+80^{\circ}\text{C}$.
- Chemical resistance of profiles are set out in **EXHIBIT 1**. These values must not be exceeded.
- The GFRP profiles are predominantly subjected to static loads.
- Torsional loads can only be transferred to square hollow section.
- Torsional flexural buckling of the profiles is structurally excluded.
- The reduction of mechanical properties up to 1% per year is accepted. The Owner can only invoke this guarantee, if a reduction of mechanical properties is greater than 1% per year and the Owner can prove this.
- Profiles exposed to direct sunlight will change color over time and experience fibre blooming.
- The design shall be based on Fiberline recommendation or according to current national or international guidelines regarding the designs of FRP (fibre reinforced polymer) structures, e.g. EUROCOMP, CUR96, BD90, Eurocode.

4.04

Fiberline can under no circumstances be made liable for any subsequent defects or damages, including defects and damages that are arisen in connection with transport, storage, assembly or use, and failure to follow Fiberline's guidelines. Furthermore, this warranty does not cover damage occurring to a product as a result of:

- Incorrect usage of the product, hereunder usage that is contrary to the intended purpose of the product.
- Failure to observe Fiberline's maintenance instructions or improper installation that does not comply with the technical or safety requirements in the country where installation is made or failure to observe the guidelines in clause 4.03.
- Failure to observe Fiberline recommendation or national and international guidelines regarding the designs of FRP (fibre reinforced polymer) structures cf. clause 4.03. The Owner is responsible to obtain either Fiberline recommendation or national and international guidelines regarding the design of FRP.
- Failure to observe one or more of the guidelines given in clause 4.03.
- Repair attempts that are unprofessional or made by a third party that is not authorized by Fiberline, hereunder repair attempts that are made by the customer.
- Modifications or alterations of the product that have not been approved in writing by Fiberline.
- Third-party influence or force majeure.

4.05

The warranty covers only to the extent specified in clause 4.02 and 4.03. Any other loss that the original defect may cause, including operating losses, lost profits and time losses, is not covered. Personal and property damage is not covered by this warranty.



5. Warranty performance

5.01

Should defects occur (as mentioned in clause 4.02) within the warranty period that are not excluded from warranty coverage as per clause 4.04 or 4.05, Fiberline shall at its own discretion remedy these defects free of charge through repairs, replacement of defective parts or replacement of the product. On its own discretion, Fiberline decides, if repair can be made, and only if repairment is not possible, Fiberline will replace defective parts or the product. All replaced parts and products become the property of Fiberline.

5.02

The warranty is worldwide.

5.03

The performance of warranty services does not result in the warranty period being extended or restarted.

5.04

Warranty services other than the ones mentioned above will not be granted.

5.05

If Fiberline inspects a warranty claim and determine that the defect in question does not fall under the scope of this warranty, the costs of the inspection made by Fiberline shall be borne by the Owner.

5.06

Fiberline is not liable for transportation costs or risks.

6. Objection and expiration

6.01

Fiberline must be informed in writing of all claims under this warranty without undue delay from the appearance of the defect or from the time upon which the defect could or ought to have been known for the Owner.

6.02

The warranty services are provided only if a copy of the original invoice or cash receipt is presented along with the appliance.

6.03

The warranty expires 20 years from the time the products were purchased.

7. Non-transferability

7.01

The warranty is provided exclusively to the original customer (Owner) of Fiberline and is not transferable.



8. Liability restrictions

8.01

In cases of liability for Fiberline in accordance with this warranty, Fiberline shall only be liable for the amount of damage typical for the contract which is foreseeable at the time of concluding the contract. Under no circumstances should Fiberline be liable for consequential, incidental, indirect or remote damages. No claim by the Owner hereunder, whether relating to goods delivered or for non-delivery, shall be greater than the purchase price of the goods in respect to which such claim is made.

8.02

Fiberline's liability is excluded unless expressly provided for in this section.

9. Reservations

9.01

Fiberline expressly take reservations to change, add or delete guidelines mentioned in clause 4.03 especially for subsequent changes of values mentioned in exhibit 1.

9.02

In the event that Fiberline change, add or delete any guidelines mentioned in clause 4.03 or values mentioned in exhibit 1, the Owner will be notified hereof either by e-mail or on Fiberline's website www.fiberline.com.

9.03

Fiberline expressly take reservation for any mistakes in the text of this warranty.

10. Dispute resolution

10.01

This warranty is governed by, construed, interpreted and enforced in accordance with the laws of Denmark, except for the Danish conflict of laws rules to the extent that such rules would lead to the application of any other laws than Danish.

10.02

Any dispute arising out of or in connection with this Agreement – which cannot be settled amicably by the parties – shall be submitted to the court in Kolding, Denmark in first instance.



EXHIBITS

Exhibit 1 – Chemical resistance- Fiberline Profiles

Fiberline tests the chemical resistance of its pultruded profiles in a representative selection of chemicals which are listed below.

Chemical	Concentration %	Chemical formula	Isopolyester	Isopolyester with fire retardant	Vinylester
Alcohol, ethyl	95	C ₂ H ₅ OH	30°C	30°C	40°C
Ammonium hydroxide	5	NH ₄ OH	NR	NR	75°C
Iron (III) chloride	All	FeCl ₃	50°C	50°C	95°C
Sodium hydroxide (2)	10	NaOH	NR	NR	45°C
Sodium hypochlorite (1)	5	NaOCl	NR	NR	45°C
Sodium chloride	All	NaCl	40°C	40°C	95°C
Nitric acid	5	HNO ₃	NR	NR	35°C
Hydrochloric acid	10	HCl	40°C	40°C	90°C
Toluene	100	C ₇ H ₈	NR	NR	30°C
Water	100	H ₂ O	40°C	40°C	30°C

NR: Not recommended

Contact Fiberline for specific recommendations

This guarantee takes effect from the 1st of January 2021.