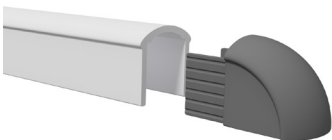


End caps & mounting

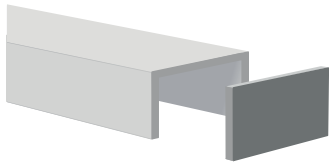
Fiberline end caps provide a smooth finish to the handrail system.
Developed to work efficiently on the inside of our tube handrails to ensure a tight fit.



End caps for type 1-4



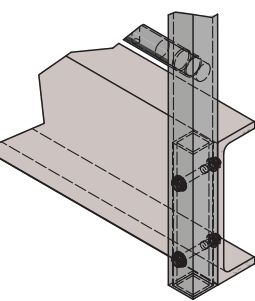
End caps for type 1-4



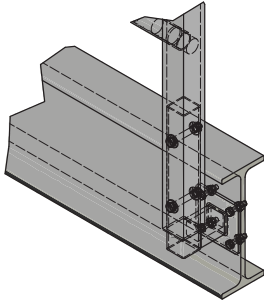
End caps for type 5

For industrial end caps please visit the Download area on www.fiberline.com.

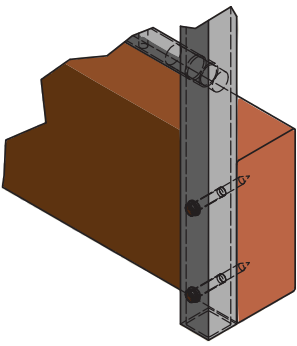
Three solutions for mounting the parapets to the substructure.



GFRP square tube insert



Stainless steel bracket



Stainless steel sleeves

About Fiberline

Fiberline is one of the leading suppliers of pultruded GFRP for structures. For more than 30 years we have manufactured durable solution for construction purposes all over Europe. From our state of the art headquarters in Denmark we constantly push the boundaries of the composite material to meet the demands of the modern, energy efficient society.



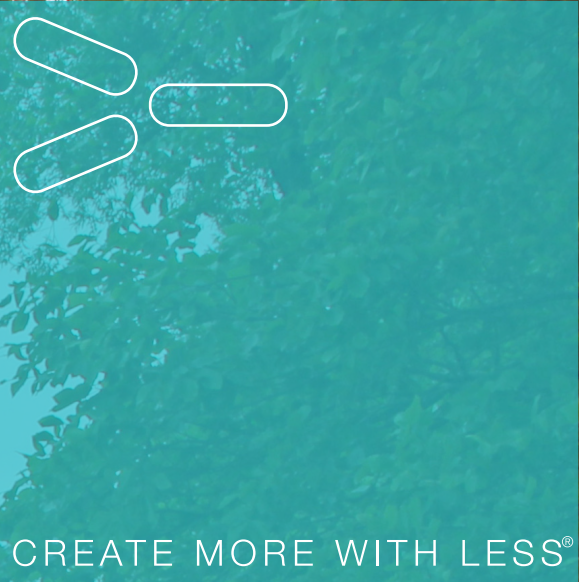
Fiberline Composites A/S

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www.fiberline.com



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119 UK 18-12-2017



Fiberline handrail system

Durability, strength and low weight



Engineering inside

Fiberline's GFRP handrail systems have a proven track record in the construction industry combining high strength and low weight with corrosion resistance. This makes our handrail system an excellent, cost efficient alternative to traditional materials such as wood, steel and aluminium. The profiles are produced by the pultrusion production method, a fully automated process that ensures high and stable quality.

Long life expectancy

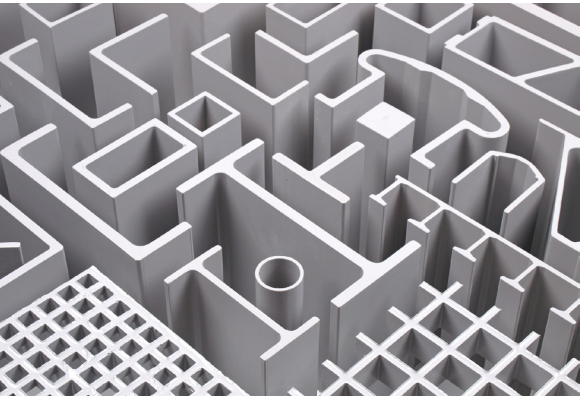
Fiberline handrail systems are made from non-corrosive materials and therefore offer excellent resistance to ge-neral environmental factors and a variety of chemicals. The materials have a much longer life expectancy than conventional construction materials and are virtually maintenance free. These unique properties make our handrail systems well qualified for a wide range of purposes, e.g. bridges, off shore and industrial applications.

Easy to machine on site

The low density of GFRP profiles makes them light and simple to assemble. Furthermore, modifications are easy to make at the construction site, as the material can be machined with ordinary power tools. This enables rapid construction and reduced disruption of for example traffic or production stops.

Advantages:

- Outstanding corrosion and weather resistance
- High strength and low weight
- Low maintenance
- Easy machinability
- Electrical insulation properties



GFRP solutions beat corrosion and Scandinavian weather
With its corrosion resistant properties GFRP handrails are the optimal solution in changing weather conditions and where structures are exposed to de-icing salt, e.g. this bridge that provides passage for many people in the second largest city in Denmark, Aarhus.



The most cost-efficient solution
Due to minimal maintenance and low operating costs, the overall budget in a lifetime perspective makes GFRP a competitive alternative to conventional designs in wood, concrete and steel. This was also the case with this full GFRP bridge with handrail system in Schwepnitz, Germany.



Easy machinability on site
Bridges, access roads etc. often form part of existing environments and Fiberline handrail systems are here very suitable as they are easy to machine on site. Together with its low weight, this minimizes the assembly time and traffic disruption, which was the case with this handrail system in Ansbach, Germany.



No earthing and no special equipment
Installing lightweight GFRP solutions near railways not only offers savings on special equipment and manpower, they are also non-conductive and does not need to be earthed to comply with the safety regulations of the rail track authority, like this staircase near Kassel, Germany.



Fiberline handrail system

Fiberline's handrail systems are delivered in segments and can be tailored exactly to purpose with end pieces that can be adjusted on site.

Type 1



Dimensions
Max length: 0.82 m
Max height: 1.2 m
Kg/m: 11.5
Handrail 80x80x7 mm

Type 2



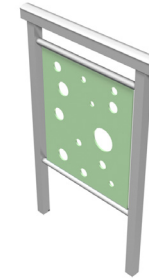
Dimensions
Max length: 0.82 m
Max height: 1.2 m
Kg/m: 15.2
Handrail 80x80x7 mm

Type 3



Dimensions
Max length: 0.82 m
Max height: 1.2 m
Kg/m: 11.7
Handrail 80x80x7 mm

Type 4



Dimensions
Max length: 0.82 m
Max height: 1.2 m
Kg/m: 16.6
Handrail 80x80x7 mm

Flat profile in translucent Lay Light™ by Fiberline

Type 5



Dimensions
Max length: 1.4 m
Max height: 1.4 m
Kg/m: 20.4
Handrail 120x50x6 mm

Industrial



Dimensions
Free design option
Handrail 80x80x7 mm