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Our references:

Mercedes-Benz
SCHLARAFFIA
interlübke
Thomashilfen
WESTFALIA Van Conversion
RECTICEL
VOLKER Bessere Betten
FIBRE
FRISCHAUF
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pikolin

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CFK Valley Stade
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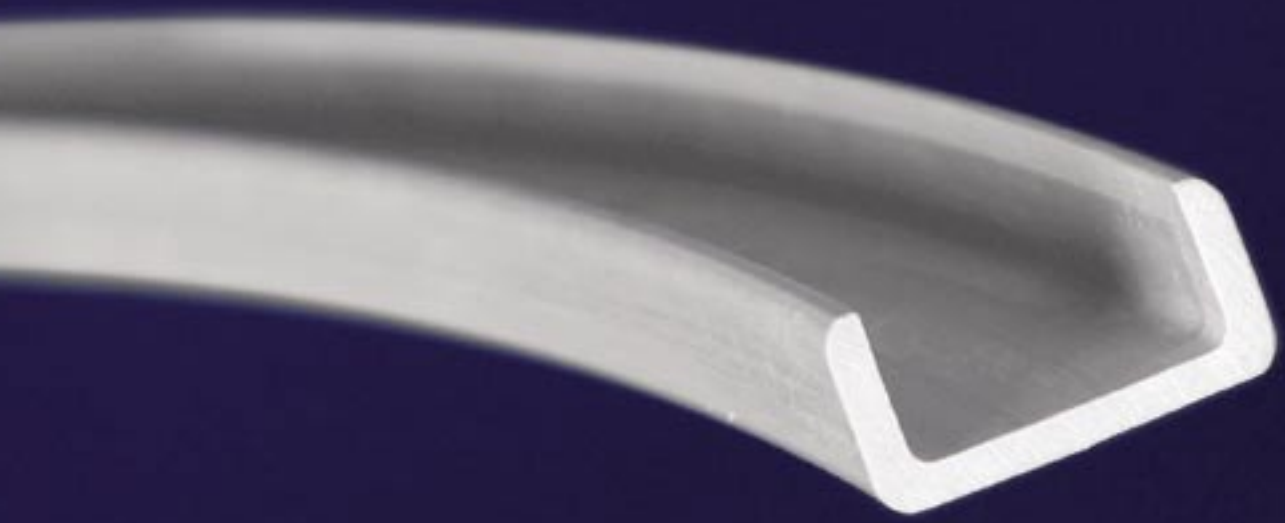
Radius-Pultrusion™

Exclusively by thomas Technik + Innovation



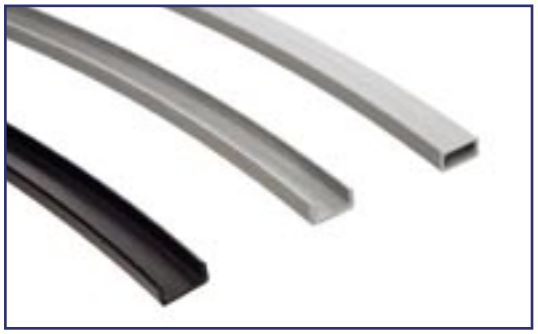
Continuous Manufacture of Reinforced Curved Profiles

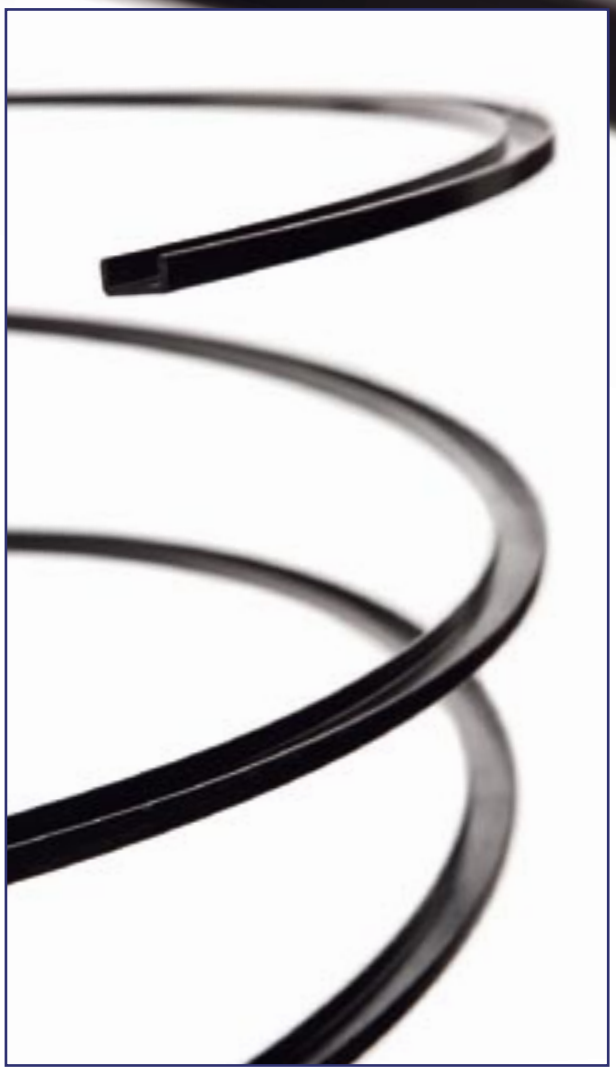
thomas Technik + Innovation

Curved Profiles in GFC/CFC/NFC

A brand new technology enables the continuous manufacture of curved reinforced profiles from endless fibres and webbing

Curved profiles are used in diverse technical applications to provide special functions or to realise certain designs. Straight profiles can be realised using the standard technology for the continuous manufacture of fibre reinforced profiles. The lack of specialised technology to realise two and three dimensional profiles has always been the hold back when replacing steel and aluminium profiles by fibre reinforced materials.



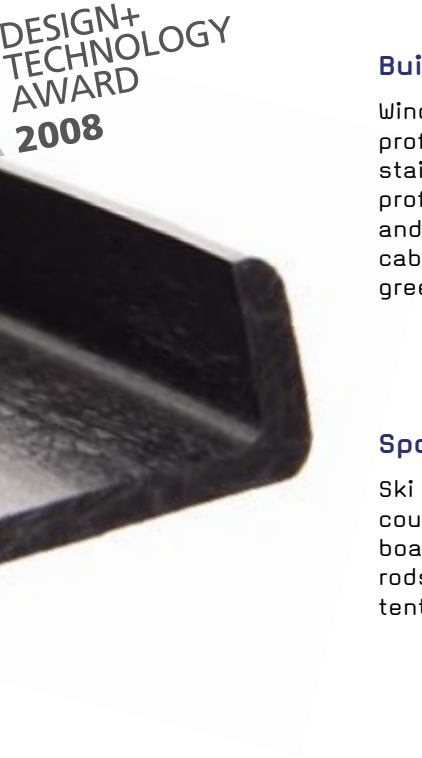


Luckily this gap has now been filled by the Radius-Pultrusion™ developed by Thomas Technik + Innovation. This modification of the well-known pultrusion process makes it possible to manufacture endless circles and arches of any radius and lead for example for the design of springs. The profiles can be reinforced with endless fibres unidirectional or with help of webbing or netting in a bidirectional way.

The development of the Radius-Pultrusion™ has been funded by the European Union and the country of Lower Saxony.

Fields of application

Fibre composites should be considered whenever the limits of steel or aluminium must be overcome or completely new product properties that as yet have only been found in nature must be realised. A truly comprehensive application of fibre reinforced materials of any composition and for a specific field of application can only be enabled by the manufacture of curved profiles. It allows nearly unlimited application of fibre reinforced materials for engineers and architects, e.g.:



Automotive- / Transportation Industry

Frame and body construction for lorries, busses, trains, cooling superstructures, container walls, roof structures, aircraft bodies, naval architecture, fixtures for bumpers, dashboards, structural profiles for exterior and interior applications, springs

Building Industry / Architecture

Window construction profiles, arched profiles, bridges, scaffolding and ladders, stairs and rails, grids, reinforcement profiles, mining and tunneling, guttering and guttering bindings, tool handles, cable channels, structural elements for green houses

Sport + Leisure

Ski and ski poles, tennis rackets, squash courts, battens for surfing and sailing, boat poles, golf clubs, surfboards, fishing rods, base ball clubs, bows and arrows, tent poles, high jump bars

Mechanical Engineering

Threaded rods and nuts, machine components, reinforcement and carrier sections, gliding components, conveyor sections, springs, grip and rotary modules, transfer presses, slewing bearings, linear bearings