



AIRPORT FENCING

Wherever **ILS transparency, heavy duty, safety tested, maintenance free, thermal stability, and easy to install** are key factors, reinforced composites are strongly gaining ground over conventional materials. **Exel**, having long experience in composites, can offer a large range of glass fibre profiles for demanding application in fencing for Airport and Electrical industry.

Standards - ICAO Annex 14 - Aerodrome Design Manual Part 6 - Frangibility - First Edition, 2006 states that fencing in an operational area should be of minimum mass and frangible.



Fibre Profiles for Fencing Application contain two main elements: glass fibre and resin. The fibres form the structural skeleton of the product. Polyester and vinylester are the most common thermoset resin matrix for this application.

In-Depth Colouring
The polymer resin matrix is pigmented and UV stabilised that provides an in-depth colour to the profiles. Painting can be provided as an option.

Safety Tested
The absence of cross bars in the panels and the sharp sawtoothed top make the fence a difficult obstacle to climb.

Thermal Stability
The UTILO fence remains unaffected by freezing cold winters. Composites exhibit excellent shape stability; they will not warp over time, deform excessively or get brittle in the cold.

Our **Continuous Processes**; pultrusion, pull-winding and continuous lamination enable the most optimised structure designed to meet the customer's requirements and relevant standards.



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ILS Transparent and Electrical Insulation

The UTILO Fence is composed of glass fibre reinforced polyester resin profiles and does not contain any metals or other conducting elements. Hence it does not lead to electromagnetic interference and will not show on radar screens nor disrupt the good working of the Instrument Landing System (ILS). Composites are excellent insulators and non-magnetic.

Heavy Duty

The fence panels and bearing posts have been designed and tested taking into account European regulation for wind load calculations. The EXEL UTILO[®] structure profiles used in the fence comply with the European standard for structure pultrusion EN 13706.



The pre-assembled fence panels are light to carry and easy to handle. A simple but efficient fixing system allows a two men crew to install over 100m of fence per day.

Maintenance Free

Glass fibre reinforced plastic does not rust or rot. Composites resist a wide range of chemical agents and of course are unaffected by a sea atmosphere, polluted air and cleaning products. Their outside surfaces are covered with a protective polyester veil to prevent the glass fibres protruding after years of weathering.



Solutions for Mast Protection

