

Your DESIGN, Your TRIGLASS® PROFILES

Top Glass is the right manufacturer of **TRIGLASS® fiberglass profiles** for window systems. Our profiles are **custom made** to the customer's own design and specifications. They can meet specific requirements in terms of shape and chemical or physical properties.

TRIGLASS® profiles are ideal for windows because of their **high level of heat insulation**. This is guaranteed by their **low overall heat transfer coefficient** and **high dimensional stability** even in the face of large temperature changes.

In addition, thanks to their **superior mechanical properties** and **light weight** the window systems made with TRIGLASS® profiles do not need any additional internal reinforcement with metal.

TRIGLASS® pultruded profiles make a fundamental contribution to **energy saving**: this and their sectional design flexibility make them an ideal option for **windows of the future**.

TRIGLASS® fiberglass profiles can be suitable for:

- WINDOW FRAMES**
- THRESHOLDS**
- SHUTTERS**



↑
HIGH

THERMAL INSULATION



Composite materials have a very low thermal conductivity coefficient, around 0.3 W/mK

↑
HIGH

MECHANICAL RESISTANCE



Customized mechanical properties with an elastic- brittle behaviour until breaking.

↓
LOW

WEIGHT



Four times lighter than steel and one and half times than aluminium.

↓
LOW

THERMAL EXPANSION



Composite profiles remain stable at all temperatures, high or low.



COMPOSITE PROFILES ARE THE ONLY OPTION IF COMPARED TO OTHER MATERIALS

Composite profiles continue to replace traditional materials because of their **unique characteristics**. Their lightweight combined high mechanical resistance make them **easy to handle and assemble**. In the meantime their intrinsic resistance to chemicals and corrosion make them **last longer** with **low maintenance costs**.

COMPARISON WITH OTHER MATERIALS:

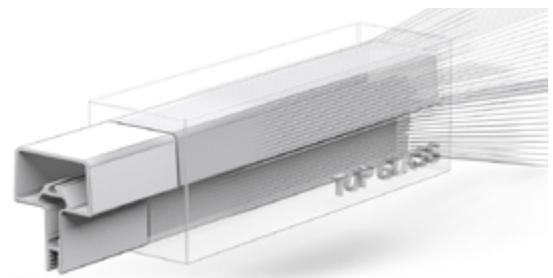
MATERIALS	SPECIFIC WEIGHT [g/cm ³]	TENSILE STRENGTH [MPa]	ELASTIC MODULUS [GPa]	THERMAL EXPANSION [K ⁻¹]	THERMAL CONDUCTIVITY [W/mK]
WOOD	0,7	80	12	14 X 10 ⁻⁶	0,1
PVC	1,4	70	3	85 X 10 ⁻⁶	0,1
PULTRUDED GRP	1,8	400	26	11 X 10⁻⁶	0,3
ALUMINIUM	2,7	250	70	23 X 10 ⁻⁶	170
STEEL	7,8	400	210	12 X 10 ⁻⁶	40



OUR TECHNOLOGY

Top Glass has over 55 years experience in composite TRIGLASS[®] profiles production obtained by **pultrusion process**.

Thanks to its production capacity Top Glass can supply a **wide range of composite profiles** with standard or complex (customized) design, with constant cross-section and unlimited length.



OUR SERVICES



DESIGN

Top Glass offers customers a professional design service, offering optimal support on every key aspect related to the **profile design**: dimensions, thickness, form complexity, appropriate raw materials and mechanical specifications. All the profiles are finally subjected to advanced **laboratory tests**.



PROCESSING AND COATING

We undertake **machining** such as cutting, drilling, CNC and bonding according to the demands of our customers.

Top Glass can also provide a **coating service** for TRIGLASS[®] fibreglass profiles, suitable for both indoor and outdoor applications.



TOP GLASS Industries S.p.A.

Via dei Soldani, 3 -
23875 Osnago (Lecco) - ITALY
Ph. +39 039 95223.1 / Fax +39 039 587787

Email: info@topglass.it

www.topglass.com

