



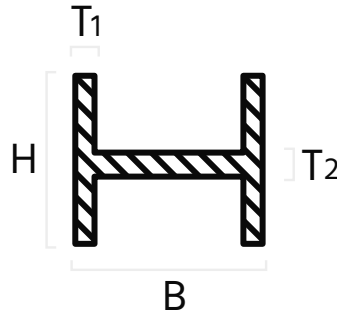
# H SECTION PROFILES TRIGLASS®

**SECTION H TRIGLASS®** composite profiles, reinforced with fibreglass and/or carbon, represent one of the pultruded profiles made by Top Glass.

Partially available from stock, these **structural pultruded profiles** are used in **corrosive environments** for example in: galvanizing processes; chemical, petrochemical and water treatment systems; cooling towers; offshore installations; aerial platforms; walkways in railway systems; construction areas; and the inside of underground transport system tunnels. Structural profiles are widely used in situations requiring **excellent mechanical performance** combined with **lightness, elasticity, electrical insulation** and **high degree of thermal insulation**.

They offer outstanding **ease of assembly** and **maintenance free performance** compared to other materials such as wood or metal. Last but not least, Top Glass has developed an **AQVA TRIGLASS®** version which has been certified in accordance with the **French ACS** (Attestation de Conformité Sanitaire of 29/05/1997 and its updates). This means it is suitable for contact with water intended for human consumption and can be used for use in water treatment systems.

We can provide a kit which comes with profiles that are cut to **size, perforated, and packaged** to meet your needs. Top Glass is able to offer these products on request in compliance with the technical specifications of **the European Standard EN 13706-E23**.



**Nominal dimension: mm**

**IN RED** colour: dimensions available **in stock** (subject to prior sale)

**IN GREY** colour: dimensions available **upon request** and produced with a variety of reinforcements, resins and colours and based on **minimum production quantities** that can differ depending on the profile

### **SPECIFICATIONS OF IN-STOCK PROFILES:**

LENGTH IN STOCK: 6.000 mm

COLOUR IN STOCK: GREY

MATRIX IN STOCK: STANDARD POLYESTER

BASE	HEIGHT	TH. 1	TH. 2
25	14	3	3
38,5	15,2	4	4
38,8	15,4	2,5	4
40	40	5	5
50	50	3	3
74	25	5	5
<b>100</b>	<b>50</b>	<b>8</b>	<b>8</b>
<b>120</b>	<b>60</b>	<b>8</b>	<b>8</b>
<b>150</b>	<b>75</b>	<b>8</b>	<b>8</b>
<b>200</b>	<b>100</b>	<b>10</b>	<b>10</b>
200	200	10	8
200	200	10	15

## MEAN PHYSICAL-MECHANICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT OF MEASUREMENT	STANDARD PROFILES MEAN VALUE
Specific weight	ASTM D792	g/cm <sup>3</sup>	1,75 ÷ 1,9
Dielectric strength	ASTM D149	kV/mm	3 ÷ 7
Water absorption	ISO 62	%	0,4
Surface electrical resistivity	EN 61340	Ω	10 <sup>12</sup>
Fattore di perdita 50 HZ (tg δ)	ASTM D150	-----	0,05
Thermal class	-----	CLASS	F
Longitudinal thermal expansion coefficient	ISO 11359-2	K <sup>-1</sup>	8 ÷ 11 x 10 <sup>-6</sup>
Thermal conductivity	EN 12667 / EN 12664	W/mK	0,3
Longitudinal flexural strength	ASTM D790	MPa	300 ÷ 500
Longitudinal flexural modulus	EN 13706	GPa	22 ÷ 28
Longitudinal tensile strength	ASTM D638	MPa	300 ÷ 500
Longitudinal tensile modulus	ASTM D638	GPa	22 ÷ 28
Longitudinal compression strength	ASTM D695	MPa	180 ÷ 300
Longitudinal compression modulus	ASTM D695	GPa	16 ÷ 20
Fire reaction	UL 94	CLASS	HB
Shear strength	ASTM D2344	MPa	30

VALUES REFER TO REINFORCED PROFILES WITH FIBREGLASS IN A **POLYESTER MATRIX**

Tolerance for mechanical properties refers to longitudinal direction: ± 10%

The data provided is accurate. However, Top Glass does not assume any liability as to its use.

### NOTES:

- HIGHER MECHANICAL VALUES REFER TO PROFILE WITH THICKNESS OVER 4 mm
- POSSIBLE UL 94 V0 FIRE REACTION WITH OR WITHOUT HALOGENS
- POSSIBLE TO HAVE IN ANTISTATIC FORMULATION
- POSSIBLE USE OF SPECIAL FORMULATION ON THICKNESS OVER 2,5 mm FOR HIGH FIRE REACTION AND NO TOXIC SMOKE
- VINYLESTER FORMULATION FOR CHEMICAL RESISTANCE APPLICATIONS AVAILABLE

