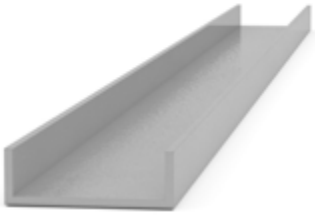
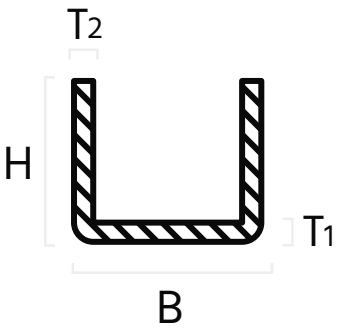
SECTION C PROFILES TRIGLASS®

SECTION C 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 enviroments** 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

BASE	HEIGHT	TH. 1	TH. 2
15	5	0,8	2
20	20	2	2
24	12	1,8	1,8
50	11	5	4
50	30	3	4
50	45	5	5
60	23	3	3
60	**60**	**5**	**5**
72	30	3,5	5
72	30	3,5	5,1
82	10	2	2

BASE	HEIGHT	TH. 1	TH. 2
83	30	3	5
89	30	3	5
89	30	3,3	5,1
90	35	8	8
110	50	5	5
111	30	2,1	2,1
120	50	3	3
150	**45**	**8**	**8**
180	70	8	8
200	**60**	**10**	**10**
300	**100**	**15**	**15**

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

MEAN PHYSICAL-MECHANICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT OF MEASUREMENT	STANDARD PROFILES MEAN VALUE
Specific weight	ASTM D792	g/cm^3	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^{12}
Fattore di perdita 50 HZ (tg δ)	ASTM D150	--------	0,05
Thermal class	--------	CLASS	F
Longitudinal thermal expansion coefficient	ISO 11359-2	K^{-1}	$8 \div 11 \times 10^{-6}$
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

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