



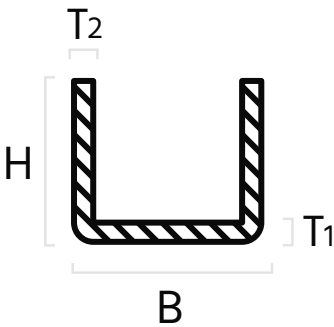
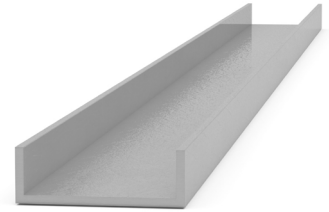
# SECTION C PROFILES TRIGLASS®

**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 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

| 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        |
| <b>60</b> | <b>60</b> | <b>5</b> | <b>5</b> |
| 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         |
| <b>150</b> | <b>45</b>  | <b>8</b>  | <b>8</b>  |
| 180        | 70         | 8         | 8         |
| <b>200</b> | <b>60</b>  | <b>10</b> | <b>10</b> |
| <b>300</b> | <b>100</b> | <b>15</b> | <b>15</b> |

**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<br>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

