



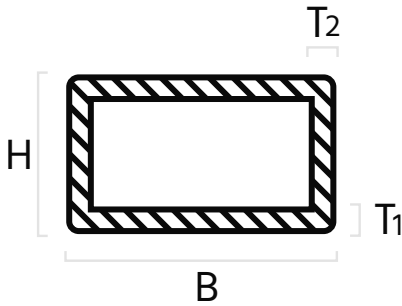
SQUARE TUBE PROFILES TRIGLASS®

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** and 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). 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
28,1	16,1	2	2
28,5	18,7	2	2,5
29,6	20,2	2	2
30	12	2	2,5
30	15	2	2,5
30	30	2,5	2,5
33,9	21	2,5	2,5
34,1	19,1	2	2
40	20	2	2,5
40,1	40,1	2	2
50	20	2,5	3
50	50	4	4
50	50	5	5
58	25	3	3
58	25	5	5
60	20	2,5	3
60	30	2,5	3
70	12	2,6	3
70	70	4	4
70	70	5	5

BASE	HEIGHT	TH. 1	TH. 2
73	25	3	3,5
73	25	3	6,6
74	34	3	2,5
80	23	3	3
80	38	3	2,5
80	47	3	3
82	32	2,8	4
85	25	3	4
86	32	2,8	4
90	25	3	5
90	90	8	8
95	26	3	5
100	30	3	3
100	100	10	10
120	120	6	6
150	100	3	3
150	100	5	6
200	150	3	3
400	30	3	3
1000	40	4	3,7



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 ÷ 11 x 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

