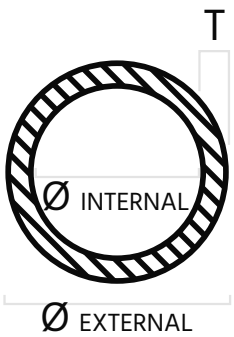
TUBE PROFILES TRIGLASS®

TUBULAR TRIGLASS® composite profiles, reinforced with fibreglass and/or carbon, represent one of the pultruded profiles made by Top Glass.
They are **versatile in use** and suitable when a **lightweight, durable** and **long-lasting** product is needed and they are intended for a **wide range of sectors** such as lighting, signage, telecommunications and furniture.
The dimensions **IN GREEN** are produced only by **pullwinding technology**. This allows producing tubes with circular sections reinforced with fibreglass placed both longitudinally and circumferentially with respect to the profile axis. This creates **greater mechanical resistance and rigidity** than in a traditional pultruded profile.



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

IN GREEN dimensions produced only by **PULLWINDING** technology

DIA ex	DIA in	TH
11	7	2
11	6	2,5
15	**12**	**1,5**
18	14	2
20	15	2,5
22	**17**	**2,5**
24	10,5	6,75
24	11,5	6,25
24,3	**20,3**	**2**
26	16,5	4,75
26	**19**	**3,5**
28,4	23	2,7
28,4	**24,4**	**2**
30	24	3
30	25	2,5
30	26	2
31	27	2
32,5	18	7,25
32,5	20,3	6,1
32,5	25	3,75
32,5	26	3,25

DIA ex	DIA in	TH
32,5	**28,5**	**2**
36,6	**32,6**	**2**
39	34	2,5
40	20	10
40	32,6	3,7
40	33,2	3,4
40	**35**	**2,5**
40,2	35	2,6
40,7	36,7	2
41,7	35	3,35
44,1	36	4,05
44,8	40,8	2
45,5	40	2,75
48,9	44,9	2
50	34	8
50	40	5
50	42	4
50	45	2,5
50,6	46	2,3
51	44	3,5
53	49	2
55,4	49,7	2,85
60	40	10

DIA ex	DIA in	TH
60	44	8
60	48	6
60	50	5
60	52	4
60	54	3
60	55	2,5
60	56	2
76	60	8
76	70	3
80	74	3
88	79	4,5
101	96	2,5
102	91,6	5,2
108	102	3
120	110	5
127	121	3
135	120	7,5
160	120	20
169	149	10
169	153	8
180	170	5
250	240	5
250	245	2,5

SPECIFICATIONS OF IN-STOCK PROFILES
LENGTH IN STOCK: 6.000 mm
COLOUR IN STOCK: WHITE
MATRIX IN STOCK: STANDARD POLYESTER

MEAN PHYSICAL-MECHANICAL PROPERTIES

PROPERTY	TEST METHOD	UNIT OF MEASUREMENT	STANDARD TUBES MEAN VALUE	PULLWINDING TUBES MEAN VALUE
Specific weight	ASTM D792	g/cm^3	1,75 ÷ 1,9	2
Dielectric strength	ASTM D149	kV/mm	3 ÷ 7	6
Water absorption	ISO 62	%	0,4	0,2
Surface electrical resistivity	EN 61340	Ω	10^{12}	10^{12}
Fattore di perdita 50 HZ (tg δ)	ASTM D150	--------	0,05	0,05
Thermal class	--------	CLASS	F	F
Longitudinal thermal expansion coefficient	ISO 11359-2	K^{-1}	8 ÷ 11 x 10^{-6}	8 x 10^{-6}
Thermal conductivity	EN 12667 EN 12664	W/mK	0,3	0,3
Longitudinal flexural strength	ASTM D790	MPa	300 ÷ 500	500
Longitudinal flexural modulus	EN 13706	GPa	22 ÷ 30	40
Longitudinal tensile strength	ASTM D638	MPa	300 ÷ 500	500
Longitudinal tensile modulus	ASTM D638	GPa	22 ÷ 30	40
Longitudinal compression strength	ASTM D695	MPa	180 ÷ 300	350
Longitudinal compression modulus	ASTM D695	GPa	16 ÷ 21	32
Fire reaction	UL 94	CLASS	HB	HB
Shear strength	ASTM D2344	MPa	30	40

VALUES REFER TO REINFORCED PROFILES WITH FIBREGLASS IN
A POLYESTER MATRIX (STANDARD TUBES) / VINYLESTER MATRIX (PULLWINDING TUBES)
MECHANICAL PROPERTIES COMING FROM EQUIVALENT **FLAT PULTRUDED PROFIL**

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
- UL 94 V0 FIRE REACTION WITH OR WITHOUT HALOGENS POSSIBLE
- ANTISTATIC FORMULATION POSSIBLE
- POSSIBLE TO USE SPECIAL FORMULATION ON THICKNESS OVER 2,5 mm FOR HIGH FIRE REACTION AND NO TOXIC SMOKE
- VINYLESTER FORMULATION FOR CHEMICAL RESISTANCE APPLICATION AVAILABLE

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